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# PROPG TEAM

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UNESP Graduate Studies - the second largest in the country - is characterized by diversity, academic relevance and comprehensiveness. With programs in the most distinct areas, it is comprised of 119 Graduate Programs with 113 courses of Academic Masters, 6 Professional Master's and 94 Doctorates, all accredited by the Coordination of Improvement of Higher Education Personnel (*Coordenação de Aperfeiçoamento de Pessoal de Ensino Superior*) (CAPES), the institution responsible for the monitoring and evaluation of graduate *sensu stricto* studies in Brazil.

The UNESP Graduate Programs have 1860 faculty-advisors, 10700 enrolled students and an updated infrastructure of teaching and research on the *campus* that is spread over 17 cities in the state of São Paulo. In 2010, UNESP awarded 1700 masters and 805 doctorates.

The quantity and quality of research conducted in the graduate context was essential to highlight UNESP among the top 400 universities in the world (Shanghai Ranking - 2010).

In this globalized world, where the internationalization of graduate programs is reflected by the excellence in the education of masters and doctors, UNESP promotes various activities related to mobility and the international exchange of students and teachers, aiming to expand scientific collaboration and institutional partnerships. It is against this background that, in 2012, UNESP will offer courses taught in English, in accordance with the international standard.

The student body of Graduate Studies of UNESP has the opportunity to apply for institutional scholarships from CAPES and CNPq and participate in national and international events that contribute to their training, besides obtaining institutional advice for the publication of the results of their research in scientific periodicals listed in the major databases and in books. In this sense, the office of the Dean of Graduate Studies promotes the publication of, on average, 60 *e-books* a year, the largest program of distribution of freely accessible publications from a public university in Brazil. It is worth noting the quality of the libraries on the UNESP *campuses*, which offer excellent opportunities for students to develop their projects.

This catalog provides ample visibility to UNESP graduates, allowing easy identification of its programs and courses spread over nine major areas, with their respective areas of focus, research areas and concepts.

# PRESENTATION

# RANKING SYSTEM CAPES

Brazil needs quality graduate programs, on international level, contributing to its technological, social and economic development. This requires a thorough evaluation that points to the goals and challenges to achieve this standard. This is the role of CAPES.

CAPES is an agency linked to the Ministry of Education, responsible for developing and evaluating the standard of quality of masters degrees and doctorates in the universities throughout the country. Moreover, it is a development agency, which distributes grants and financial resources to the programs of study, according to their results.

The system, which was implemented in 1976, also considers the inclusion of new courses in the National Graduate System. The institution has a fundamental role in the development of courses and Brazilian institutions. Its goal is to increase the efficiency and the recognition of the programs as well as to meet the national and regional demands, public and private, in the formation of specialized high-level professionals.

However, the evaluation task is a small one in the scheme of CAPES' pretensions. Goals and challenges are suggested so that programs follow the progress of science and technology. A committee of consultants indicates the shortcomings and qualities and offers referrals to improve its performance, thus improving itself and its international competitiveness, along with that of the universities.

In 2010, the CAPES appraisal was published for the triennium 2007 to 2009, with the participation of 2718 programs nationwide. Among the UNESP programs, 11% obtained the grade Excellent, 35% achieved Very Good and 41% achieved the Good grade, higher than the average of the other programs in Brazil.

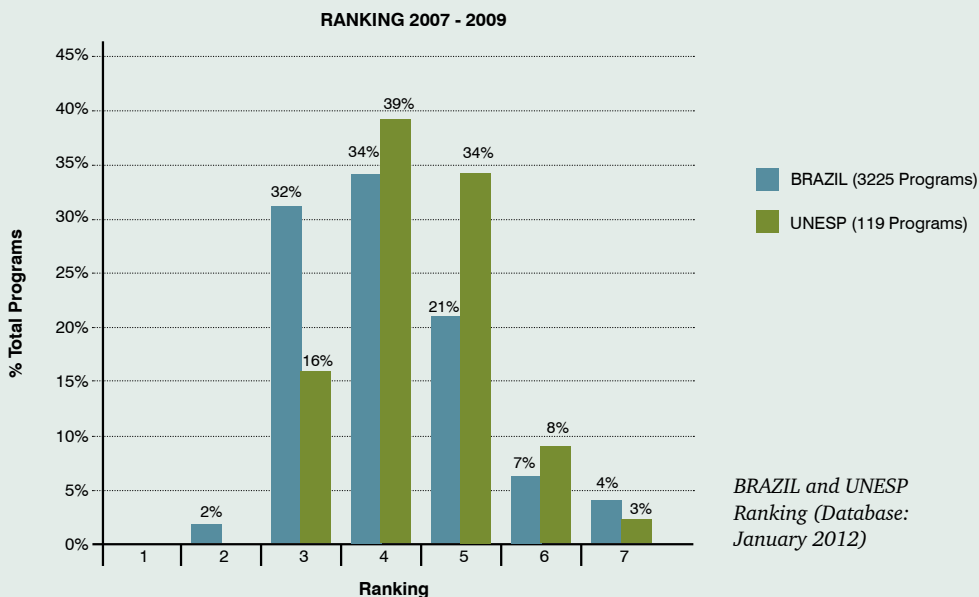
The programs receive grades on a scale from 1-7. The courses that obtained the grade of 7 & 6 were assessed as being "excellent", with an international performance in research, structure and professionalism comparable to the best institutions in the world. Programs with a grade of 5 were rated as "Very Good", with 4 rated as "Good" and 3 as "Regular". Below this, the courses are not recognized, nor do they obtain authorization to operate by the National Education Council.

The criteria defined for the assessment relates to each of its 48 areas, answering its many general and specific questions such as: infrastructure, consistency and coherence of the curriculum structure, the intellectual production of its professors and

students, and the inclusion of masters and doctors trained in the systems of science, technology and innovation in this country and abroad. In Brazil, the predominate programs are those graded with 3 and 4 and in UNESP, programs that are graded with 4 and 5.

In the last decade, UNESP made tremendous efforts to achieve good results: establishing a more stringent criteria for the creation of new courses, strengthening the relationship between undergraduate and graduate programs; monitoring the internal assessment process and the filling out of the CAPES reports, besides reducing the time it takes to graduate. In addition, the publication of works of teachers and their respective English versions for the Brazilian higher education market was stimulated.

With these initiatives, the University achieved a great leap forward in quality in the latest CAPES appraisal. Of the 111 programs evaluated, those considered to be excellent increased from 6 to 12. Thirty-two courses have improved their performance and 66 held the score from the previous three years. Courses with the minimum grades decreased by 40%. UNESP built, together with CAPES, a new standard for graduate courses in Brazil.





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# AGRICULTURAL SCIENCES

In a country like Brazil, due to its size, the rural sector is strategic and innovation is critical to maintaining its growth. UNESP invests in the regional economy as the foundation for development, without ever losing the commitment to the sustainable use of natural resources. Research in Agricultural Sciences strengthens this challenge.

The student is the main character of this proposal. The UNESP teaching method promotes a multidisciplinary understanding of the area, deepening theoretical and practical questions, making research in graduate studies the foundation for their future role in the labor market, with an eye on social and environmental responsibility.

The large area of Agricultural Sciences is broad and diverse, composed predominantly of programs in Agronomy, Veterinary Medicine, Animal Science and Food Technology, and Agricultural, Forestry and Fishery Engineering.

With the growth of agribusiness in recent decades, public and private investments have turned their attention to research. Thus, graduate programs have grown throughout the country. A strong relationship has been established with the economic sector, and universities became providers of new technologies that are rapidly incorporated by producers, fulfilling a part of their social roles.

These works present new options for farmers in growing systems, increased productivity in large crops with a reduced environmental impact, rationalization of energy use and biomass production, and genetic studies of animals and plants.

To keep up this innovating impulse, the purchase of new equipment is increasing, as well as the construction and maintenance of specialized laboratories, farms for teaching and research and libraries, thanks to aid for research projects or resources from the University itself.

Several symposia, seminars and conferences are held on the campuses, intensifying the dialog between the scientific communities. Moreover, participation in national and international events is encouraged that contributes to the training of our teachers and students.

Agricultural Sciences is the sector with the largest number of programs at UNESP, which are taught on seven campuses: Araçatuba, Araraquara, Botucatu, Ilha Solteira, Jaboticabal, Rio Claro and São José do Rio Preto.

## AGRICULTURAL MICROBIOLOGY

Students interested in research or teaching, in order to develop work in genetics, physiology of microorganisms in modern laboratories. The Program in Agricultural Microbiology demands this profile.

### AREA OF CONCENTRATION

Agricultural Microbiology

#### RESEARCH AREAS

- Genetics and Molecular Biology of Microorganisms
- Biology, Biochemistry and Physiology of Microorganisms
- Microbial Ecology
- Applied Microbiology

## AGRONOMY

The Agronomy Program has a strong regional impact, especially in the states of Mato Grosso do Sul and Goiás. Its infrastructure provides laboratories and a farm for research. The course received a grade of 5 in the CAPES appraisal rating.

### AREA OF CONCENTRATION

Production Systems

#### RESEARCH AREAS

- Management and Conservation of Soil and Water
- Ecophysiology, special techniques and crop management in agricultural and forestry production systems
- Genetics, plant breeding and plant propagation

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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M D	M 5	D 5

## AGRONOMY

### Agricultural Entomology

Interaction with the scientific community to monitor technological innovations and quality control of projects carried out by students that attend the Agricultural Entomology Program in phytosanitary research.

#### AREA OF CONCENTRATION

Agricultural Entomology

#### RESEARCH AREAS

- Biological control of insects, acari and nematodes (parasitoids, predators and entomopathogenic fungi)
- Ecology, behavior and biology of insects, acari and nematodes
- Systematics and morphology of insects, acari and nematodes
- Chemical control of insects, acari and nematodes
- Plant resistance to insects, acari and nematodes

## AGRONOMY | Agriculture

The Program in Agronomy (Agriculture) has as its main theme the Large Crops, with specializations in Ecophysiology, Weed Science, Genetics, Seed Technology and Agricultural Products and the relationships between water, soil and plant.

#### AREA OF CONCENTRATION

Agriculture

#### RESEARCH AREAS

- Ecophysiology and the management of large crops in production systems
- Weed Science
- Production, technology and storage of seeds and agricultural products
- Genetic improvement of large crops
- Water/soil/plant relationships

# AGRONOMY

## Energy in Agriculture

The Program in Agronomy (Energy in Agriculture) is intended for those interested in researching the rationalization of energy use and production of biomass for energy purposes, with attention to management, social and political questions.

### AREAS OF CONCENTRATION

Soil Fertility and Environmental Quality  
Use and Management of Soil and Water

#### RESEARCH AREAS

- Rational Use of Energy in Agriculture
- Conventional and Alternative Sources of Energy, Technological Development and Energy Policies
- Production, Agro-forestry Biomass Conversion Technology and its Applications
- Storage and Energy Balance of Products and Agricultural Derivatives
- Land Use Planning, Study of the Environment and Sustainable Development

# AGRONOMY

## Genetics and plant improvement

Training that allows students to work in larger companies in the sector. With five areas of research, the Agronomy Program, Genetics and Plant Improvement area, offers modern laboratories.

### AREA OF CONCENTRATION

Genetics and Plant Improvement

#### RESEARCH AREAS

- Biology and genetics of tropical species
- Molecular biology applied to genetics to improvements
- Improvement and evaluation of the cultivar group
- Genetics and improvements for resistance to stresses, pests and diseases
- Biometrics applied to genetics and improvements

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## AGRONOMY | Horticulture

The Agricultural Program (Horticulture) is characterized by an effort to raise funds for research projects of its members, working in the areas of Olericulture, Fruit Growing, Medicinal Plants, Aromatics and Ethnobotany.

### AREA OF CONCENTRATION

#### Horticulture

##### RESEARCH AREAS

- Improvement and Seed Production of Vegetable Plants
- Cultural Techniques in Horticulture Plants
- Technology, Management and Post Harvest Processing of Horticulture Plants
- Ethnobotany and Conservation of Horticulture Plants
- Physiology of Horticulture Plants
- Botany and Photochemistry Horticulture Plants

## AGRONOMY

### Irrigation and Drainage

The Agronomy Program in the area of irrigation and drainage was the first to offer doctorates in the country. Currently there are eight areas of research, including: chemigation, water reuse, geoprocessing and agro meteorology.

### AREA OF CONCENTRATION

#### Irrigation and Drainage

##### RESEARCH AREAS

- Management of Irrigation
- Irrigation Engineering
- Agricultural Drainage and Control of the water table Level in Agricultural Systems
- Chemigation
- Reuse of Water in Agriculture
- Monitoring Agro-meteorological Parameters in Agricultural Systems
- GIS Applied to Irrigation and Drainage
- Water Management in Agriculture

## AGRONOMY

### Plant Production

The Agronomy Program, Vegetable Production area, is always aware of the quality of the teachers, who teach more than 50 areas of study and guide eight areas of research amongst the conservation, physiology and fertility of crops.

#### AREA OF CONCENTRATION

Vegetable Production

##### RESEARCH AREAS

- Soil Fertility and Plant Nutrition
- Conservation and Management of Agro-ecosystems
- Weed Science
- Propagation of Plants, Seeds and Seedling Production
- Crop Physiology and Management
- Post-Harvest Conservation and Quality of Vegetable Products
- Collection, Identification and Evaluation of Cultivar groups
- Management and Control of Pests and Diseases

## AGRONOMY

### Plant Protection

With areas of research in Entomology, Plant Pathology, Weed Science, Nematology and Pesticide Application Technology, the Agronomy Program (Plant Protection) encourages increased productivity without harming the environment.

#### AREA OF CONCENTRATION

Plant Protection

##### RESEARCH AREAS

- Ecology and behavior of arthropods, microorganisms and weeds
- Systematic identification and variability of arthropods, microorganisms and weeds
- Evaluation and development of new methodologies for research in Plant Protection
- Biology and physiology of arthropods, microorganisms and weeds
- Control and management of diseases, pests and weeds
- Application technology and environmental impact of pesticides

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PROGRAM	CAPES EVALUATION	
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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## AGRONOMY | Seed Production and Technology

Students can become researchers or technicians trained to detect and resolve production, performance, improvement or conservation problems; this is the goal of the Seed Production and Technology Program.

### AREA OF CONCENTRATION

Production and Seed Technology

#### RESEARCH AREAS

- Aspects of the Morpho-Anatomical-Embryological Analysis, Conservation and Seed Pathology
- Physiological Aspects of Seed Germination Performance
- Production Technology, Drying and Seed Processing

## AGRONOMY Soil Science

The Program in Agronomy, Soil Science area, received a grade 5 in the CAPES assessment. The teachers, with different academic backgrounds, with quality, guide research in plant nutrition and soil and water engineering.

### AREAS OF CONCENTRATION

Soil Fertility and Environmental Quality  
Use and Management of Soil and Water

#### RESEARCH AREAS

- Plant Nutrition and Fertilization
- Use and Management of Waste in Agriculture
- Interactions of Pedological Attributes with Soil Management
- Water and Soil Engineering

## ANIMAL SCIENCE

Professionals seeking a multidisciplinary background in Pathophysiology, Preventive Medicine and Animal Production can find these in the Faculty of Dentistry, Course of Veterinary Medicine the ideal place to develop their research.

### AREA OF CONCENTRATION

Medical and Surgical Pathophysiology

#### RESEARCH AREAS

- Medical and Surgical Pathophysiology of Small Animal
- Medical and Surgical Pathophysiology of Large Animals

### AREA OF CONCENTRATION

Preventive Veterinary Medicine and Animal Production

#### RESEARCH AREAS

- Production and Quality of Foods of Animal Origin
- Epidemiology, Pathophysiology, Diagnosis and Control of Animal Diseases

### AREA OF CONCENTRATION

Preventive Veterinary Medicine (DO)

#### RESEARCH AREAS

- Animal Diseases and Veterinary Public Health

## ANIMAL SCIENCE

The result of constant assessment, the Graduate Program in Animal Science reached grade 6 in the last three years of CAPES appraisals. This is one reason for the quality of its research in Nutrition and Animal Production.

### AREA OF CONCENTRATION

Nutrition and Animal Production

#### RESEARCH AREAS

- Evaluation of Food from Animal and Plant origins
- Animal Performance
- Nutritional Requirements
- Production and Conservation of Forage Plants

### FACULDADE DE ODONTOLOGIA

#### CAMPUS ARAÇATUBA

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

### FACULDADE DE MEDICINA VETERINÁRIA E ZOOTECNIA

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PROGRAM	CAPES EVALUATION	
M D	M 6	D 6

**FACULDADE DE CIÊNCIAS  
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PROGRAM	CAPES EVALUATION	
M D	M 7	D 7

## ANIMAL SCIENCE

To develop quality research in Biochemistry, Genetics, Production and Animal Nutrition, you must attend one of the best courses in the country: the one that obtained seven in the CAPES appraisal. Discover the Animal Science Program.

### AREA OF CONCENTRATION

#### Animal Production

##### RESEARCH AREAS

- Forage Plants: Production, Management and Conservation
- Creation and Management of Animals and Production Management
- Animal Ecology and Ethology

### AREA OF CONCENTRATION

#### Nutrition and Animal Feeding

##### RESEARCH AREAS

- Evaluation of Food for Animals
- Nutritional Requirements of Animals

### AREA OF CONCENTRATION

#### Genetics and Breeding of Domestic Animals

##### RESEARCH AREAS

- Genetics and Animal Breeding

### AREA OF CONCENTRATION

#### Biochemistry and Animal Physiology

##### RESEARCH AREAS

- Biology and Animal Development
- Animal Biotechnology
- Animal Metabolism

## ANIMAL SCIENCE AND TECHNOLOGY

Students will be trained to perform activities of teaching, research and development of technologies for the manufacturing sector. This Program is offered on the UNESP *campuses* of Dracena and Ilha Solteira.

### AREA OF CONCENTRATION

Animal Production

#### RESEARCH AREAS

- Animal Science and Technology in the Production of Non-Ruminants
- Animal Science and Technology in the Production of Ruminants

## AQUACULTURE

All teachers in the Aquaculture Program are doctors, which further qualifies their teaching and guidance of scientific proposals related to production, feeding and pathology of aquatic organisms.

### AREA OF CONCENTRATION

Aquaculture in Continental Waters

#### RESEARCH AREAS

- Feeding and Nutrition of Aquatic Organisms
- Production of Aquatic Organisms
- Biology of Aquatic Organisms with Potential for Aquaculture
- Biology and Management of Natural Aquatic Ecosystems
- Pathology of Aquatic Organisms

### FACULDADE DE ENGENHARIA CAMPUS EXPERIMENTAL DE DRACENA

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17900-000  
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PROGRAM	CAPES EVALUATION
M	M 4

### CENTRO DE AQUICULTURA DA UNESP

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PROGRAM	CAPES EVALUATION
M D	M 6 D 6

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## BIOLOGICAL SCIENCES

### Applied Microbiology

The relevance of the scientific production of the Applied Microbiology Program is proven in publications by internationally recognized periodicals. The course has five areas of research, including biotechnology, ecology and biosorption.

#### AREA OF CONCENTRATION

Applied Microbiology

##### RESEARCH AREAS

- Biotechnology of Microorganisms
- Environmental Remediation, Bioremediation and Biosorption
- Ecology and Microbial Systematics
- Microbial Enzymes

## ENGINEERING AND FOOD SCIENCE

The development of research that provides further knowledge in Biochemistry, Microbiology, Product Technology and Process Engineering, forming professionals, is the goal of the Engineering and Food Science Program.

#### AREA OF CONCENTRATION

Food Engineering

##### RESEARCH AREAS

- Process Engineering for the Food Industry
- Physical Properties of Materials of Biological Origin

#### AREA OF CONCENTRATION

Science and Food Technology

##### RESEARCH AREAS

- Chemistry and Technology of Food Products
- Microbiology and Bioprocess

## FOOD AND NUTRITION

The Foods and Nutrition course, of the Faculty of Pharmaceutical Sciences invites you to a new teaching experience, which is multidisciplinary and cross-sectorial. The student is a “permanent apprentice,” committed to a more cohesive society.

### AREA OF CONCENTRATION

Food Science

#### RESEARCH AREAS

- Analysis, composition and quality control of food
- Biotechnology, biochemistry and food technology
- Experimental nutrition and health of the population

## FOREST SCIENCE

Sustainability, conservation and production of renewable resources are the topics that guide the Forest Science program. The quality of its faculty members, together with its infrastructure, drives the evolution of its researchers.

### AREA OF CONCENTRATION

Forest Science

#### RESEARCH AREAS

- Conservation of Natural Resources
- Technology of Forest Products
- Silviculture and Forest Genetics
- Isolated Project

### FACULDADE DE CIÊNCIAS FARMACÊUTICAS

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

### FACULDADE DE CIÊNCIAS AGRONÔMICAS

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4



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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## GENETICS AND ANIMAL BREEDING

The labor market needs professionals to develop cutting-edge research and has experience in international institutions. The Program in Genetics and Animal Breeding is the place for those seeking excellence.

### AREA OF CONCENTRATION

Genetics and Animal Breeding

#### RESEARCH AREAS

- Animal Cytogenetics
- Statistical Methods Applied to Animal Breeding
- Domestication and Conservation Genetics
- Molecular Genetics
- Evaluation and Selection of Domestic Animals
- Mechanisms of Adaptation to the Tropical Environment and Behavior Genetics

# VETERINARY MEDICINE

The Graduate Program in Veterinary Medicine has thirty years experience in the training of qualified professionals. The course is home to researchers in Surgery and Veterinary Medicine, Reproduction and Animal Health.

## AREA OF CONCENTRATION

Veterinary Surgery

### RESEARCH AREAS

- Veterinary Anesthesiology
- Clinical Surgery of Small Animals
- Clinical Surgery of Large Animals
- Experimental Veterinary Surgery
- Imaging Diagnostics

## AREA OF CONCENTRATION

Veterinary Surgery

### RESEARCH AREAS

- Clinical disorders of cats and dogs
- Parasitic Diseases of Animals
- Veterinary Clinical Pathology
- Veterinary Pathology
- Clinical Problems of Farm Animals
- Veterinary Toxicology

## AREA OF CONCENTRATION

Animal Reproduction

### RESEARCH AREAS

- Theriogenology
- Reproduction Biotechnology

## AREA OF CONCENTRATION

Animal Health, Veterinary Public Health and Food Safety

### RESEARCH AREAS

- Infectious Diseases
- Applied Veterinary Microbiology
- Veterinary Public Health
- Science and Technology of Animal Products

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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PROGRAM	CAPES EVALUATION	
M D	M 6	D 6

## VETERINARY MEDICINE

Laboratories that have the constant renewal of equipment in terms of providing students with the most modern searching techniques. This is one of the advantages that the Veterinary Surgery Program offers its post-graduate students.

### AREA OF CONCENTRATION

Preventive Veterinary Medicine

#### RESEARCH AREAS

- Hygiene, Technology and Food Inspection
- Bacterioses
- Viruses
- Sanitation, Public Health and Environmental Quality
- Zoonosis and its Significance in Public and Animal Health
- Using GIS to Study the Distribution of Disease

### AREA OF CONCENTRATION

Animal Pathology

#### RESEARCH AREAS

- Host-Parasite relationship
- Immunopathology and Tumor Markers in Animals
- Pathology of Domestic and Wild Animals
- Morphological, physiological and pathological characterization in Animals
- Salmonellosis of Interest in Veterinary Medicine and Public Health
- Avian Virology

### AREA OF CONCENTRATION

Animal Reproduction

#### RESEARCH AREAS

- Semen Technology and Artificial Insemination
- Biotechnology of reproduction
- Theriogenology
- Reproduction Diseases
- Application of DNA analysis tools in Biodiversity, Animal Health and Production
- Stem Cell Technology

## AREA OF CONCENTRATION

### Veterinary Medicine

#### RESEARCH AREAS

- Etiology and Pathophysiology of Clinical Disorders of Animals
- Clinical Diagnostic and Predictive Tests of Clinical Disorders in Animals
- Clinical and Laboratory Parameters in Normal and Pathological Situations
- Pharmacological aspects, Drug and Therapeutics of Different Drugs in Various Clinical Situations of Animals

## VETERINARY SURGERY

Laboratories with the constant renewal of equipment in terms of providing students with the most modern searching techniques. This is one of the advantages that the Veterinary Surgery Program offers to its graduate students.

## AREA OF CONCENTRATION

### Veterinary Surgery

#### RESEARCH AREAS

- Independent Projects
- Experimental Surgery
- Clinical and Experimental Anesthesiology
- Imaging Diagnostics
- Surgical Anatomy
- Surgical Pathophysiology

### FACULDADE DE CIÊNCIAS AGRÁRIAS E VETERINÁRIAS CAMPUS JABOTICABAL

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4



# BIOLOGICAL SCIENCES

A broad and interdisciplinary investigation which starts with the environment and reaches the cell under the microscope. Along the way, the institution provides conditions for its students to build alternatives for a better world. The commitment of the UNESP Biological Sciences area is to carry out research that will transform people's lives.

Technological innovation, social functions and sustainability are the key words in these courses. We aim to make historical discoveries in the scientific community and improve people's lives - the little details of everyday life to prevent disease - always planning for a healthier planet.

Only one team of teachers with proven experience can achieve these goals. Human capital is essential, but not sufficient. You must have a structure that provides conditions for the student to develop, and UNESP has it. Its modern laboratories with equipment specific to each area are constantly renewed so that students perform the same tasks as the best institutions in the world.

Graduate studies address the great diversity of flora, fauna, biomes and human development. They also serve the various interests in stem cell research, environmental analysis, drug development for the pharmaceutical industry and other products for the manufacture of food and beverages.

Physiology, Morphology, Genetics, Immunology, Microbiology, Parasitology, Pharmacology, Biophysics, Biochemistry, Botany, Cellular and Molecular Biology, Zoology, Ecology, Physiological Sciences and Biological Oceanography are some areas of study offered by UNESP in the five campuses of the institution: Araçatuba, Araraquara, Botucatu, Rio Claro and São José do Rio Preto.

We also offer opportunities for scholarships and exchanges with national and international universities. Each of its campuses has the autonomy to promote conferences and seminars as a way of presenting the results of the work of our students to the scientific community.

The Programs from the area open the doors to graduates in national public institutions or universities with a recognized equivalence.

## ANIMAL BIOLOGY

Scientific research carried out with creativity and competence. The Program in Animal Biology seeks professionals with this profile, interested in Structural Biology, Ecology and Behavior, Evolution and Systematics.

### AREA OF CONCENTRATION

Animal Biology

#### RESEARCH AREAS

- Systematics and Evolution
- Ecology and Behavior
- Structural Biology

## BIOLOGICAL SCIENCES

### Botanic

The dialogue with other areas, such as Agriculture and Forestry, is remarkable in the Biological Sciences Program (Botany). The course welcomes professionals interested in Physiology, Biochemistry, Morphology and Plant Diversity.

### AREA OF CONCENTRATION

Morphology and Plant Diversity

#### RESEARCH AREAS

- Plant Anatomy and Morphology
- Anatomy and Wood Identification
- Taxonomy, Floristics and Ecology
- Reproductive Biology
- Biology of Plant Secretion

### AREA OF CONCENTRATION

Physiology and Plant Biochemistry

#### RESEARCH AREAS

- Physiology of Plant Metabolism
- Ecophysiology
- Physiology of Plant Development

### INSTITUTO DE BIOCÊNCIAS, LETRAS E CIÊNCIAS EXATAS CAMPUS SÃO JOSÉ DO RIO PRETO

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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[graduacao.php](http://administracao/secao_pos_graduacao.php)

PROGRAM	CAPES EVALUATION	
M D	M 4	D 4



## INSTITUTO DE BIOCÊNCIAS

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PROGRAM	CAPES EVALUATION	
M D	M 6	D 6

## INSTITUTO DE BIOCÊNCIAS

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

# BIOLOGICAL SCIENCES

## Genetics

One of the goals of the Graduate Program in Genetics is to promote interaction between the graduate and the undergraduate studies. With nearly 30 years in existence, the course trains qualified researchers in animal and human genetics.

### AREA OF CONCENTRATION

#### Genetics

##### RESEARCH AREAS

- Mutagenesis
- Animal Genetics
- Plant Genetics
- Human and Medical Genetics
- Molecular Genetics of Microorganisms
- Genomics and Proteomics
- Epigenetics

# BIOLOGICAL SCIENCE

## Molecular and Cellular Biology

In addition to recognized scientific production, the Cellular and Molecular Biology Program excels by the exchange program, counting with the collaboration of teachers from other UNESP *campus* and research institutions.

### AREA OF CONCENTRATION

#### Molecular and Cellular Biology

##### RESEARCH AREAS

- Cell Biology and Development
- Molecular and Structural Biology
- Cytogenetics and Mutagenesis

## BIOLOGICAL SCIENCES

### Pharmacology

Excellence in research and the training of teachers is taken seriously. The Program in Biological Sciences, Pharmacology area, offers the opportunity to teach graduate courses and give advice to students that are beginning their studies.

#### AREA OF CONCENTRATION

Pharmacology

##### RESEARCH AREAS

- Receptors and Transduction Mechanisms
- Pharmacology of Reproduction
- Pharmacology of Natural Products
- Applied Biophysics
- Exogenous and Endogenous toxicants

## BIOLOGICAL SCIENCES

### Plant Biology

The Biological Sciences Program, Plant Biology area, is not only concerned with the study of plants, but also with all their ecological interaction. With a four in the CAPES appraisal, the course has comprehensive areas of research.

#### AREA OF CONCENTRATION

Plant Biology

##### RESEARCH AREAS

- Development Physiology and Ecophysiology
- Anatomy of Vegetative and Reproductive Organs
- Taxonomy and Ecology of Cryptogams and Phanerogams
- Phenology and Biotic Interactions
- Floristics, Phytosociology and Ecosystem Ecology

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

## BIOLOGICAL SCIENCES

### Zoology

With grade four obtained in the last CAPES appraisal, the Graduate Program in Zoology is renowned for the quality of its scientific production and the publications in the areas of Morphology, Physiology, Animal Ecology and Systematics.

#### AREA OF CONCENTRATION

Animal Ecology

##### RESEARCH AREAS

- Animal Populations
- Animal Communities
- Aquatic Ecosystems

#### AREA OF CONCENTRATION

Morphology, Physiology and Animal Systematics

##### RESEARCH AREAS

- Animal Morphology
- Comparative and Behavioral Physiology
- Reproduction and Development
- Animal Systematics

## BIOLOGICAL SCIENCES

### Zoology

More than 35 years experience in Zoology accredits the program to train professionals of a high academic standing. The areas of research are focused on terrestrial arthropods, vertebrates and aquatic animals.

#### AREA OF CONCENTRATION

Zoology

##### RESEARCH AREAS

- Biology of terrestrial arthropods
- Vertebrates
- Aquatic animals

## BIOSCIENCES

Training that allows students to generate strategic actions for rapid responses to the changes occurring in the environment, with a special emphasis on the application of technologies aimed at understanding and the responsible and ethical use of biological diversity.

### AREA OF CONCENTRATION

Characterization and Application of Biological Diversity

#### RESEARCH AREAS

- Application of Biological Diversity
- Characterization of Biological Diversity

## BIOTECHNOLOGY

The Biotechnology Program seeks professionals who want to make an improvement in quality of life. Its qualified teachers work in the areas of Cellular and Molecular Biology, Industrial and Environmental Biomaterials.

### AREA OF CONCENTRATION

Biotechnology

#### RESEARCH AREAS

- Environmental Biotechnology: Biosorption of Metals
- Industrial Biotechnology: Production Bioprocess of Secondary Metabolites
- Environmental Biotechnology: Bio-leaching of metals from sewage sludge
- Biotechnology Applied to Health: Biological Activity of Chemicals, Natural and Metabolic Products Produced by Filamentous Fungi
- Enzyme Biotechnology: Biosensors: Development and Applications
- Cellular and Molecular Biotechnology: Biochemistry and Molecular Biology of Microorganisms
- Biotechnology Applied to Health: Bio-active Peptides
- Industrial Biotechnology: Bacterial Leaching of Metals
- Enzyme Biotechnology: Plant Enzymology
- Biotechnology Applied to Health: Chemical Modification of Drugs and Biopharmaceuticals
- Biotechnology of Enzymes: Microbial Enzymes. Production and Immobilization on Solid Supports

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PROGRAM	CAPES EVALUATION
M	M 3

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PROGRAM	CAPES EVALUATION
M D	M 4 D 4

**FACULDADE DE MEDICINA  
VETERINÁRIA E ZOOTECNIA  
CAMPUS BOTUCATU**

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

- Cellular and Molecular Biotechnology: Molecular Biology of Cancer
- Cellular and Molecular Biotechnology: Metabolic Regulation in Filamentous Fungi
- Cellular and Molecular Biotechnology, Immunology and Molecular Biology of Prokaryotes and Eukaryotes
- Cellular and Molecular Biotechnology: Biochemistry and Physiology of Micro-organisms
- Environmental Biotechnology: Biodegradation of Plastics by Filamentous Fungi
- Materials Biotechnology: Biomaterials. Interaction with Different Cellular Structures
- Materials Biotechnology: Non-Metallic Biomaterials
- Industrial Biotechnology: Basic and Applied Aspects of the Industrial Use of Yeast

## GENERAL AND APPLIED BIOLOGY

The multidisciplinary approach of the Program in General and Applied Biology is guaranteed by the diversity of its faculty and its research areas such as Anatomy, Histology, Morphology, Biophysics, Physiology and Microbiology.

### AREA OF CONCENTRATION

Structural and Functional Cellular Biology

#### RESEARCH AREAS

- Biology and Cellular Plasticity
- Biology of Reproduction
- Biology of Processes and Systems

### AREA OF CONCENTRATION

Biology of Microorganisms and Parasites

#### RESEARCH AREAS

- Vector Biology
- Tissue and cavity Parasites
- Biology of Microorganisms

### AREA OF CONCENTRATION

Bio-molecular Structure and Function

#### RESEARCH AREAS

- Structure of Natural Macro and Micro-molecules
- Biological Activity of Natural Products

## GENETICS

Training professionals dedicated to science for the development of society. This is the profile of professionals that the Genetics Program is seeking, with research in Animal, Human Genetics, Cellular and Molecular Biology.

### AREA OF CONCENTRATION

Genetics

#### RESEARCH AREAS

- Molecular and Cellular Biology
- Animal Genetics and Evolution
- Human Genetics

## Medical Biotechnology RESEARCH AND DEVELOPMENT

Health services have difficulties in incorporating technological innovations. The Professional Master's Program (F) Research, Development and Medical Biotechnology prepares professionals to connect scientific research to the labor market.

### AREA OF CONCENTRATION

Pathology

#### RESEARCH AREAS

- Applied Molecular Biology: Innovation in Health
- Biology and Cell Engineering
- Blood Transfusion: Immuno Biotechnology, Biosafety and Quality Control
- Cellular Therapy: Hematopoietic Progenitor Cell Transplantation
- Oncology Clinic, Surgery and Quality of Life

### INSTITUTO DE BIOCÊNCIAS, LETRAS E CIÊNCIAS EXATAS CAMPUS SÃO JOSÉ DO RIO PRETO

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION
F	F 4

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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## MICROBIOLOGY

In addition to quality preparation for the dissertation, the Microbiology Program student has the opportunity to do internships in teaching and is encouraged to publish articles in specialized magazines.

### AREA OF CONCENTRATION

#### Microbiology

##### RESEARCH AREAS

- Industrial Microbiology, Environmental and Food
- Biochemistry and Molecular Biology of Microorganisms
- Biology and Systematics of Microorganisms
- Virology

## MOLECULAR BIOPHYSICS

With several exchanges with universities in the United States, Germany and India, the Program in Molecular Biophysics excels in the interdisciplinary research in Biochemistry, Molecular and Cellular Biology and Physics.

### AREA OF CONCENTRATION

#### Molecular Biophysics

##### RESEARCH AREAS

- Biophysical Chemistry of Macromolecules
- Theoretical Models of Macromolecules
- Amphiphilic Systems and Polymers
- Protein Crystallography and X-Ray Scattering
- Structure and Function of Proteins

## MULTICENTRIC PHYSIOLOGICAL SCIENCES

The multicentric program in Physiological Sciences is designed for professionals who wish to research and teach in the best colleges in the world. Aware of trends in the area, the program is coordinated by the Brazilian Society of Physiology.

### AREA OF CONCENTRATION

#### Physiological Sciences

### RESEARCH AREAS

- Control of Energy Metabolism and Food Intake
- Pharmacology of Natural Products and Medicinal Plants
- Physioecology of Terrestrial and Aquatic Animals
- Physiology of Reproduction
- Physiology of Physical Exercise
- Physiology and Pharmacology of Pain
- Endocrine Physiology
- Hypertension and Heart Failure
- Immunopharmacological Mechanisms in Inflammation and Tissue Regeneration
- Neurophysiology and Behavior
- Neuroimmunoendocrinology
- Regulation of the Respiratory Function
- Regulation of the Water Electrolyte Balance

## PHYSIOLOGICAL SCIENCES UNESP/UFSCAR

The Inter-institutional Program in Physiological Sciences brings together two of the most important institutions of the country, UFSCar and UNESP. This agreement is designed for professionals who know how to act in synergy and communication networks.

### AREA OF CONCENTRATION

Physiology

#### RESEARCH AREAS

- Intra- and intercellular signaling
- Hydromineral balance: aquatic and terrestrial environments
- Energy metabolism and thermo-regulation
- Cardiovascular and respiratory systems: evolution and adaptation to the environment
- Neurohumoral control of the hydro-saline balance
- Neurohumoral control of the cardiovascular and respiratory systems
- Exercise and adaptation to the environment
- Behavior: Foundations of neural reflexes and motivation

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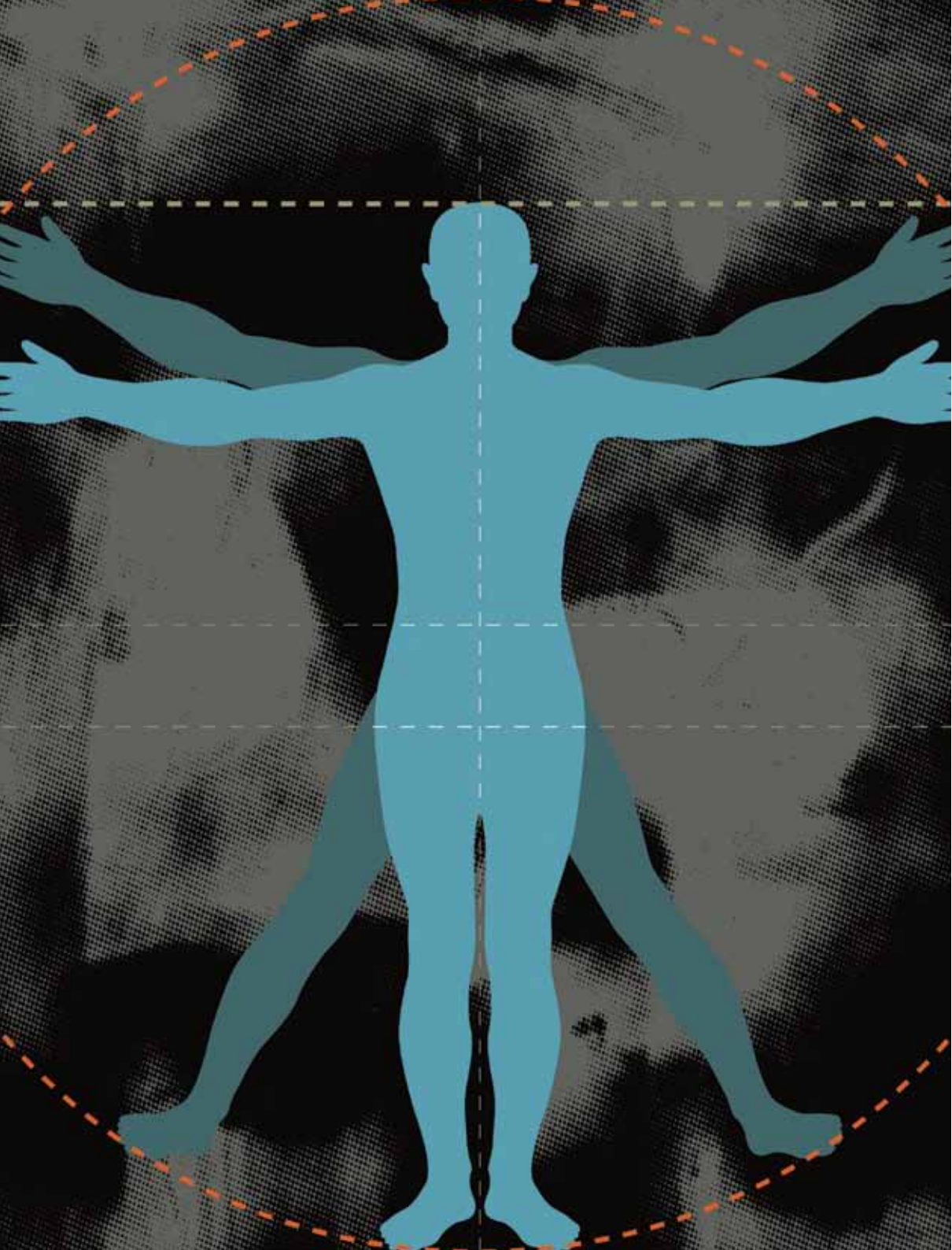
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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5





# HEALTH SCIENCES

Quality of life is the greatest resource for the social and economic development of a country, and the Health Science plays a crucial role. UNESP sees this area as a complex network of social and cultural relations, collective and individual, making their scientific research a tool for a healthy society.

For this, we must awaken in the students a refined critical sense and social responsibility, and it is the teachers that are asked to reproduce and stimulate the mind. The goal is to generate and apply technologies and knowledge that contribute to science and the life of the population, either with the presentations at scientific meetings, the publication of articles or collaboration with the private sector.

In this relation with the different spheres of society, a dialogue is established in which assesses the relevance and application of the work that has been done. Another important field of dialogue includes the scientific events organized by UNESP, such as seminars and lectures in which our students and teachers have and know about the current scientific production.

The area of Health Sciences includes the Programs in Dentistry, Medicine, Pharmacy, Physical Education, Nursing, Physiotherapy, Speech Therapy, Collective Health, Movement Science, Bioscience and Biotechnology applied to Pharmacy, which are offered in seven campuses UNESP: Araçatuba, Araraquara, Botucatu, Marília, Presidente Prudente, Rio Claro and São José dos Campos.

The interdisciplinary approach governs the proposed Programs. There is a growth in medicine of the participation of medical professionals from other areas, whether technological or human. In dentistry, the introduction of new materials intensifies the exchange in the discussions with other sciences. The pharmaceutical sector is a priority of the National Science Policy, Technology and Overseas Trade and with this comes the development of research related to economic, technological and social questions.

Programs such as Physical Education, Physiotherapy, Speech and Occupational Therapy have expanded greatly not only in number but also mainly on the quality of academic work. The same goes for Nursing and Collective Health, courses aimed at producing knowledge and technology with direct effects on health services.

# ANESTHESIOLOGY

Suitable for professionals from different areas of health, the Anesthesiology Program prioritizes academic independence and autonomy of its students. The course has a collaboration of researchers in the United States, Canada and England.

## AREA OF CONCENTRATION

Risk and Protection of Organs and Systems in Anesthesia and Surgery

### RESEARCH AREAS

- Clinical and experimental models to study the cardiovascular effects of anesthetic drugs and techniques
- Renal protection in situations of risk during anesthesia and surgery
- Fluid replacement in hypovolemia and hemorrhagic shock. Experimental models in anesthesiology
- Clinical and experimental models for the study and prevention of changes in lungs and upper airways during mechanical ventilation
- Preconditioning renal anesthesiology

## AREA OF CONCENTRATION

Quality and Safety in Anesthesiology

### RESEARCH AREAS

- Clinical and experimental models for the study and prevention of adverse effects related to anesthetics and anesthetic techniques
- Toxicity of drugs introduced into the neuraxis
- Pharmacokinetic models for intravenous anesthesia
- Quality assessment in anesthesiology
- Genotoxicity of anesthetics

## AREA OF CONCENTRATION

Clinical and Experimental Models for Pain Therapy

### RESEARCH AREAS

- Pain. Clinical and experimental models to study the effects of drugs, analgesic techniques
- Action of local anesthetics and drugs administered in the central and regional anesthetic blocks

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## BIOSCIENCES AND BIOTECHNOLOGY APPLIED TO PHARMACY

Associated with high technological level activities, the course of Bioscience and Biotechnology Applied to Pharmacy gives the students a chance to research topics of scientific and social relevance and publish them in some of the most respected magazines.

### AREA OF CONCENTRATION

Clinical Analysis

#### RESEARCH AREAS

- Pathophysiology bases of the disease: cellular, molecular and epidemiological aspects
- Functional exploration of biomolecules and xenobiotics
- Diagnostic Biotechnology and Biopharmaceuticals

## COLLECTIVE HEALTH

Preparing researchers with autonomy to formulate analysis on the reality of the country. The Collective Health Program develops areas of research in epidemiological studies, occupational health and communication in the sector.

### AREA OF CONCENTRATION

Public Health

#### RESEARCH AREAS

- Development and Analysis of Technology and Processes for Training Health Professionals
- Living Conditions and Health of Populations
- Study of compulsory reporting of the Health of Workers: Design, Methods and Techniques for Analysis and Prevention of Work Accidents
- Assessment, Management and Development of Technologies, Programs and Health Systems
- Aging studies
- Health and Mental Health Policy: Conceptual Aspects, Epidemiological and Training and Evaluation

## DENTAL SCIENCE

Child psychology, inflammation of the connective tissue and fluoride products are the main focuses in the Course of Pediatric Dentistry in Araçatuba - that obtained a grade 5 in the CAPES appraisal. Aimed at professionals who seek excellence.

### AREA OF CONCENTRATION

Oral Health of Children

#### RESEARCH AREAS

- Prevention of Dental Caries
- Growth and Somatic and Psychological Development of the Child
- Pulp Reaction, Restorative Materials, Dental canal root treatments and Dental Trauma

### AREA OF CONCENTRATION

Endodontics

#### RESEARCH AREAS

- Chemical, Physical and Biological Properties of Dental Materials
- Interrelationship between Oral Infection and Systemic Changes

## DENTAL SCIENCES

Specializing in Pediatric Dentistry, Orthodontics and Restorative Dentistry, the Dental Science Program encourages collaboration with universities in the country and abroad. An opportunity for a broad technical and cultural education.

### AREA OF CONCENTRATION

Pediatric Dentistry, Orthodontics and Restorative Dentistry

#### RESEARCH AREAS

- Molecular biology and tissue response to live oral materials and techniques
- Laboratory tests and clinical examination of dental materials and techniques
- New technologies in the diagnosis and treatment of oral problems
- Craniofacial training and development

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M D	M 5	D 5

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M D	M 5	D 5

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M D	M 4	D 4

## DENTISTRY

A good teacher marks a student's career. Therefore, the Dental Program trains teachers with a critical way of thinking and teaching. From the preparation of the syllabus to the classroom, it encourages students in the search for innovations.

### AREA OF CONCENTRATION

Oral and maxillofacial traumatology and surgery

#### RESEARCH AREAS

- Basis of Oral and Maxillofacial Surgery and Traumatology

### AREA OF CONCENTRATION

Stomatology

#### RESEARCH AREAS

- Epidemiology and pathology dentomaxilofacial

### AREA OF CONCENTRATION

Implantology

#### RESEARCH AREAS

- Osseointegrated implants in dentistry

### AREA OF CONCENTRATION

Orthodontics

#### RESEARCH AREAS

- Teeth movements and dentofacial deformities

### AREA OF CONCENTRATION

Periodontics

#### RESEARCH AREAS

- Tissue repair process

### AREA OF CONCENTRATION

Prosthodontics

#### RESEARCH AREAS

- Occlusion and TMJ
- Dental materials
- Fundamentals of dental prosthetics

## AREA OF CONCENTRATION

### Clinical Integration

#### RESEARCH AREAS

- Dentofacial Trauma

## AREA OF CONCENTRATION

### Dentistry

#### RESEARCH AREAS

- Dental materials in dentistry

# DENTISTRY

The Graduate Program in Dentistry operates in the areas of Implantology, Periodontics and Endodontics. With interdisciplinary content, aimed at strengthening their science projects and the exchange with other research centers.

## AREA OF CONCENTRATION

### Periodontics

#### RESEARCH AREAS

- Prevention and Treatment of Periodontal Diseases
- Pathophysiology and Diagnosis of Periodontal and Peri-implant Diseases

## AREA OF CONCENTRATION

### Endodontics

#### RESEARCH AREAS

- Biological, Radiographic and Microbiological evaluation in Endodontics
- Evaluation of Physical-Chemical Properties in Endodontics

## AREA OF CONCENTRATION

### Implantology

#### RESEARCH AREAS

- Biological Aspects, Influence of Host and Physical-Chemical Properties of the Implant in Osseointegration
- Biomaterials for Bone Reconstruction

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M D	M 6	D 6



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M D	M 4	D 4

# GENERAL BASIS OF SURGERY

With 35 years of experience, the Program in General Basis of Surgery stands out because of the quality of its scientific production. Its students have an excellent infrastructure, exchanges and opportunities for research grants.

## AREA OF CONCENTRATION

Aggression and Tissue Injury

### RESEARCH AREAS

- Body responses to diseases, external agents and surgical trauma
- Ischemia, thrombosis, reperfusion and revascularization of tissues
- Experimental models of diabetes applied to surgery

## AREA OF CONCENTRATION

Pathophysiology and Diagnosis Applied to Surgery

### RESEARCH AREAS

- Voice, hearing, balance and sleep disorders
- Anatomical and functional disorders of the urogenital system
- Disorders of the motor activity of the digestive system
- Cardio respiratory function in surgical patients
- Diagnostic research in surgery
- Electroneuromyography applied to surgery

## AREA OF CONCENTRATION

Repair, Regeneration and Transplantation of Organs and Tissues

### RESEARCH AREAS

- Biomechanics and healing of tissues and organs
- Denervation and nerve regeneration
- Biomaterials applied to surgery
- Risk factors and survival of grafts, flaps and solid organ and tissue transplantation

## AREA OF CONCENTRATION

Efficacy and Effectiveness of Treatment Protocols

### RESEARCH AREAS

- Clinical and experimental effects of drugs, surgical procedures and adjunctive therapy in surgical lesions
- Evaluation of cost/effectiveness of surgical treatment of disorders: studies of the review of literature and meta-analysis

#### AREA OF CONCENTRATION

Molecular Biology and Genetics Applied to Surgery

##### RESEARCH AREAS

- Carcinogenesis and prognostic markers in surgery

#### AREA OF CONCENTRATION

Quality of Life and Management of Health Care

##### RESEARCH AREAS

- Studies on the prevalence, incidence and quality of life in patients with surgical lesions
- Management of the health risk from hospitals

## GYNECOLOGY, OBSTETRICS AND MASTOLOGY

The Program in Gynecology, Obstetrics and Mastology is not satisfied with the grade 5 rating from CAPES. This pursuit for excellence is passed on to the students who achieve professional recognition with research in Women's Health.

#### AREA OF CONCENTRATION

Toco-Gynecology

##### RESEARCH AREAS

- Markers of gestational diabetes and a metabolic syndrome in human pregnancy and in experimental models
- Persistent Toxic Substances (PTS) and other chemicals during pregnancy and in human reproduction: studies in humans and animals
- Clinical epidemiology in Obstetrics
- Topical and ectopic endometrium: evaluation by endoscopic methods
- Hypertension markers in human pregnancy and in experimental models
- Neuroendocrine control of ovulation and chronic anovulation and their molecular, metabolic, and uterine interrelations, focusing on human reproduction and the Polycystic Ovary Syndrome (PCOS)
- Factors related to human infertility: genetic, infectious, environmental, psychosocial, semen, ovarian, uterine and embryonic
- Epidemiology and therapeutic interventions in the multidisciplinary breast lesions

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M D	M 5	D 5

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PROGRAM	CAPES EVALUATION	
M D	M 6	D 6

- Therapeutic and metabolic hormonal interrelationships of menopause
- Epidemiological studies in benign and malignant gynecological processes
- Endocrine metabolic evaluations, endoscopic and psychosocial in special situations of women's lives
- Prognostic factors of non transmittable chronic diseases in adolescence
- Immunology of reproduction
- Neural regulation of the cardiovascular system
- Intracellular signaling

## MOTRICITY SCIENCES

Physical Education Professionals, and Psychology, Biology and Education, may enter the Graduate Program in Motricity Sciences, which has two main themes of study: Pedagogy and Biodynamics.

### AREA OF CONCENTRATION

Biodynamics of Human Kinetics

#### RESEARCH AREAS

- Endocrine-Metabolic Physiology and Exercise
- Biomechanical Analysis Methods
- Physical Activity and Health
- Coordination and Control of Motor Skills
- Biodynamic Aspects of Sports Performance and Training

### AREA OF CONCENTRATION

Pedagogy of Human Kinetics

#### RESEARCH AREAS

- The Social Nature of the Body
- Professional Training and the Employment possibilities
- Mood States and Motion

## NURSING

Contribute to the development and quality of professionals in the Botucatu region, by approaching the University to the health services, is the proposal of the Professional Master (F) in Nursing.

### AREA OF CONCENTRATION

Nursing Practice

#### RESEARCH AREAS

- Process of Health Care and Nursing
- Management of Health and Nursing Services

## ORAL BIOPATHOLOGY

Those who want a critical and multidisciplinary education with research in social and scientific relevance should contact the Oral Biopathology Program. The study areas are Microbiology/Immunology, Pathology and Radiology.

### AREA OF CONCENTRATION

Dental Radiology

#### RESEARCH AREAS

- Answers of the Body to Disease, External Agents and to Surgical Trauma

### AREA OF CONCENTRATION

Microbiology and Immunology

#### RESEARCH AREAS

- Infectious Diseases of a Medical-Dental Interest

### AREA OF CONCENTRATION

Pathology

#### RESEARCH AREAS

- Inflammation and Tissue Repair
- Neoplasms
- Diagnostic Pathology

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PROGRAM	CAPES EVALUATION
F	F 4

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## ORAL REHABILITATION

The purpose of the Oral Rehabilitation Program is to identify society's needs and develop solutions, especially in prostheses. The course is aimed at professionals seeking careers in research and teaching institutions.

### AREA OF CONCENTRATION

Prosthesis

#### RESEARCH AREAS

- Prosthetic Treatment in Geriatric Dentistry
- Physical, Mechanical, Cosmetic and Biological Materials Used in Oral Rehabilitation
- Biosafety
- Temporomandibular Disorders and Orofacial Pain Program

## PATHOLOGY

The Graduate Program in Pathology has a multidisciplinary approach, integrating biologists, nutritionists and doctors. Its research topics range from the Pathology Diagnostic Applied to the borders of Biomedicine.

### AREA OF CONCENTRATION

Pathology

#### RESEARCH AREAS

- Paracoccidioidomycosis
- Oncopathology
- Toxicologic Pathology
- Immunopathology
- Metabolic adaptations to Inflammatory/Oxidative stress
- Pathology of melanocytes

# PATHOPHYSIOLOGY IN THE MEDICAL CLINIC

Commitment to academic activities and focus on the relationship between the teacher and student directs the Pathophysiology in Medical Clinic Program. The training of its researchers is conducted in modern laboratories.

## AREA OF CONCENTRATION

Pathophysiology in Medical Clinic

### RESEARCH AREAS

- Molecular Biology Applied to Disease Diagnosis and Characterization of Genotypes
- Clinical and Laboratory Aspects of Kidney Disease and Renal Replacement Therapy
- Metabolic and Nutritional Changes Associated with Different Clinical Situations
- Remodeling and its Implications for Cardiovascular and Systemic
- Pathophysiology aspect, Therapeutic and Clinical Diagnostics of Diseases in Internal Medicine
- Epidemiology, and Clinical Pathophysiology in Systematic Arterial Hypertension

# PHARMACEUTICAL NANOTECHNOLOGY

In an industry that lacks skilled professionals, a Ph.D. in Pharmaceutical Nanotechnology was developed by researchers that are directly involved in its evolution. Among the various approaches, the focus is for industrial innovation.

## AREA OF CONCENTRATION

Nanotechnology Applied Pharmaceutical Sciences

### RESEARCH AREAS

- Nanotechnology Applied Pharmaceutical Sciences

## FACULDADE DE MEDICINA CAMPUS BOTUCATU

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## FACULDADE DE CIÊNCIAS FARMACÊUTICAS

### CAMPUS ARARAQUARA

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PROGRAM	CAPES EVALUATION
D	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

**FACULDADE DE CIÊNCIAS E  
TECNOLOGIA**

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<http://www.fct.unesp.br/index.php?CodigoMenu=413&CodigoOpcao=605>

PROGRAM	CAPES EVALUATION
M	M 3

## PHARMACEUTICAL SCIENCES

Professionals willing to challenge the regional and national needs with innovative alternatives should apply to the Pharmaceutical Sciences Program. Its areas of research are diverse and multidisciplinary.

### AREA OF CONCENTRATION

Research and Development of Drugs and Medicines

#### RESEARCH AREAS

- Research and Development of Drugs
- Research and Development of Medicines
- Quality Control and Biological Evaluation of Medicinal Products and Supplies

## PHYSIOTHERAPY

After the restructuring of its laboratories and the adequacy of the course to the scientific reality of the country, the Graduate Program in Physiotherapy goal is excellence. Its main area of study is Assessment and Intervention in Physiotherapy.

### AREA OF CONCENTRATION

Assessment and Intervention in Physiotherapy

#### RESEARCH AREAS

- Assessment and intervention in Physiotherapy in the cardiovascular, endocrine and respiratory systems
- Assessment and intervention in Physiotherapy in the neuro musculoskeletal system

## RESTORATIVE DENTISTRY

Innovation, adaptation of curriculum, investments in infrastructure and the teaching team. With these actions, the Graduate Program in Restorative Dentistry remains one of the best in the country.

### AREA OF CONCENTRATION

Dentistry

#### RESEARCH AREAS

- Clinical and Laboratory evaluation of Materials and New Technologies in Dentistry

### AREA OF CONCENTRATION

Prosthodontics

#### RESEARCH AREAS

- Osseointegrated implants
- Clinical and Laboratory evaluation of Materials and New Technologies in Prosthodontics

### AREA OF CONCENTRATION

Endodontics

#### RESEARCH AREAS

- Clinical and Laboratory evaluation of Materials and endodontic techniques
- Dental trauma and Restorative Treatment

## SOCIAL AND PREVENTIVE DENTISTRY

Transform the oral health of the people: that is the goal of the Social and Preventive Dentistry Program. Aimed at community action, the professional learns to interact and generate knowledge that cultivates social change.

### AREA OF CONCENTRATION

Social and Preventive Dentistry

#### RESEARCH AREAS

- Administration and Public Health Policies
- Bioethics and Collective Health
- Dental Education
- Epidemiology in Oral Health
- Prevention and Education in Oral Health

### FACULDADE DE ODONTOLOGIA CAMPUS SÃO JOSÉ DOS CAMPOS

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4



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CIÊNCIAS**

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Fax: 14 3402-1301

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PROGRAM	CAPES EVALUATION
M	M 3

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## SPEECH-LANGUAGE PATHOLOGY

Conduct research that meets the needs of society and publish it in Brazil and across the world are the goals of the Speech-Language Pathology Program, which covers the following topics: Communication Disorders, Prevention, Assessment and Therapy.

### AREA OF CONCENTRATION

Human Communication Disorders

#### RESEARCH AREAS

- Biopsychosocial Bases of Communication
- Speech-Language Pathology prevention, assessment and therapy

## TROPICAL DISEASES

The Tropical Diseases Program seeks its continuous improvement, with changes in its curriculum and research areas, without losing its multidisciplinary nature. Its target audience is health professionals, Biologists and Veterinarians.

### AREA OF CONCENTRATION

Tropical Diseases

#### RESEARCH AREAS

- Study of the effect of snake venoms and its derivatives
- AIDS: clinical, epidemiological and therapeutic studies
- Clinical and molecular characterization of bacterial infections
- Immunopathogenesis and treatment of paracoccidioidomycosis
- Effect of nutritional status of the immunopathogenesis of infectious and parasitic diseases
- Epidemiology and clinical assessment of immune response in patients with chronic viral hepatitis
- Diagnosis and immunopathogenesis of chronic forms of Chagas disease
- Immunopathogenesis, clinical and therapy of mycobacterial infections.
- Laboratory and molecular diagnosis of viral infections
- Parasite-host-environment relationship of the protozoan

- Epidemiological and clinical studies of deep mycoses
- Immunological criteria in evaluating the pathogenicity of the prognosis and therapeutic effect in HIV infection/AIDS
- Infection control and hospital epidemiology
- Innate and adaptive immune response to infection by *Rhodococcus equi* in experimental murine models
- Animal and plant toxins: bioprospecting, clinical assessment, epidemiology and immunology
- Infection control, hospital epidemiology and antimicrobial resistance
- Clinical investigations, epidemiology and immunology of fungal infections
- Nutrition and immunomodulation in infectious and parasitic diseases
- Immunological Research, epidemiological and clinical aspects of HIV, hepatitis and opportunistic infections
- Mycobacteriosis, zoonoses and other diseases of importance in Public Health



$$\pi = 3,14\dots$$

x	o	o
x	x	
x		

$$? \int x dx$$

$$v = \frac{s}{t}$$

$$1 + 1 = 2$$



$$)^2 = a^2 + 2ab + b^2$$



# EXACT SCIENCES AND EARTH

The growth of research in the exact area comes from its interdisciplinarity. It integrates the various sciences, contributing to research projects in genetics, agronomy and engineering. The role of UNESP is to form professionals from different fields of knowledge quality and autonomy.

This participation in different areas is due to the quality of professionals and students, creating innovative solutions based on studies that provide results with a high level of accuracy, such as calculations of transgenic viability, agricultural productivity calculations, techniques to reduce pollution of water and soil, and implications in robotics, among others. In this relationship, using different programs, the relevance is tested and it demonstrates the applicability of the work done.

The pursuit of excellence and the constant expansion and evaluation of the curriculum and teachers ensure the national and international recognition of the programs. It is noteworthy that its faculty has strong academic background, composed of experts and professionals in other fields. Here, interdisciplinarity, beyond an assumption, is performed with rigor.

The students are encouraged to interpret the demands of the academic and productive sectors and create innovative solutions, performing a cutting-edge science with a scientific, technological and social impact. For this it is essential to provide the best conditions, acquire new equipment, build and maintain specialized laboratories and libraries.

The University promotes the publication of articles in periodicals and various seminars and lectures in its units, to publicize the work of our researchers to the scientific community and provide the dialogue and exchange of information.

The area of Exact and Earth Sciences brings together graduate programs encompassing Physics, Geo-sciences, Chemistry, Mathematics and Computer Science. UNESP offers thirteen programs. The courses are offered in the campuses in the cities of São Paulo, Araraquara, Presidente Prudente, Guaratinguetá, Rio Claro, Bauru and the São José do Rio Preto.

## APPLIED MATHEMATICS AND COMPUTATIONAL

Comprised of teachers from different subject areas, the Computational and Applied Mathematics Program aims to meet the demands of the labor market. The course material guarantees a solid background in Geotechnology.

### AREA OF CONCENTRATION

Computational and Applied Mathematics

#### RESEARCH AREAS

- Applied mathematics
- Computational Mathematics

## CARTOGRAPHIC SCIENCES

The Cartographic Sciences Program closely monitors the developments in geo-location technology, and with it, investigates issues relevant to society, to train innovative professionals to work in public and private companies.

### AREA OF CONCENTRATION

Acquisition, Analysis and Representation of Spatial Information

#### RESEARCH AREAS

- Computer Images
- Geodetic Positioning
- Digital Cartography, Geographic Information Systems and Spatial Analysis
- Isolated Project

## CHEMISTRY

For those who want to specialize in Environmental Chemistry with an intense focus in the areas of Microbiology and Molecular Biophysics, the best place is the Chemistry Program. The course also offers international exchanges.

### AREA OF CONCENTRATION

Environmental Chemistry

#### RESEARCH AREAS

- Environmental Ecotoxicology
- Bioenergy, Waste Treatment and Waste Utilization
- Biochemistry of Macromolecules
- Amphiphiles and Structured Systems
- Thermal and Electrochemical Analysis

### FACULDADE DE CIÊNCIAS E TECNOLOGIA

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PROGRAM	CAPES EVALUATION
M	M 3

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PROGRAM	CAPES EVALUATION
M D	M 5 D 5

### INSTITUTO DE BIOCÊNCIAS, LETRAS E CIÊNCIAS EXATAS CAMPUS SÃO JOSÉ DO RIO PRETO

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PROGRAM	CAPES EVALUATION
M	M 3

## INSTITUTO DE QUÍMICA

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PROGRAM	CAPES EVALUATION	
M D	M 6	D 6

# CHEMISTRY

Internationally recognized, the Chemistry Program practices an advanced science, with technological, scientific and social repercussions. Interdisciplinary, it stimulates innovative projects and partnerships with national and foreign groups.

## AREA OF CONCENTRATION

### Chemistry

#### RESEARCH AREAS

- Chemistry of Materials: Ceramics
- Chemistry of Materials: Nanocomposites
- Chemistry of Materials: Colloids
- Chemistry of Materials: Metallic Alloys
- Chemistry of Materials: Glass
- Coordination and Organometallic Compounds  
Chemistry: Coordination Compounds in Molecular Materials
- Coordination and Organometallic Compounds  
Chemistry: Optical Properties of Rare Earth Compounds
- Natural Products Chemistry: Biosynthesis
- Natural Products Chemistry: Bioassays
- Natural Products Chemistry: Plant Ecophysiology
- Natural Products Chemistry: Phytochemical and Biological Study of Plants
- Electrochemistry: Kinetics and Electrode mechanisms
- Electrochemistry: Corrosion
- Electrochemistry: Sensors
- Analytical Chemistry: Analysis of Waste
- Analytical Chemistry: Spectra Analytical
- Analytical Chemistry: Electro Analytical
- Analytical Chemistry: Thermal Analysis
- Natural Products Chemistry: Chemistry and Bioactivity of endophytic fungi
- Analytical Chemistry: Characterization of Organic and Inorganic Compounds by X-Ray Diffraction by polycrystalline materials
- Natural Products Chemistry: Synthesis, Structure and Function of Biomolecules
- Environmental Chemistry: Advanced Oxidation Processes
- Environmental Chemistry: Chemistry of the Atmosphere

- Environmental Chemistry: Metals and Organic Substances in the Environment
- Environmental Chemistry: Methodology in Environmental Chemistry
- Coordination and Organometallic Compounds Chemistry: Metallodrugs and Biological Activity
- Coordination and Organometallic Compound Chemistry: Molecular and Supra molecular Compounds
- Analytical Chemistry: Crystallography
- Analytical Chemistry: Fuels and Biofuels
- Chemistry of Materials: Biomaterials
- Chemistry of Materials: Luminescent Materials

## COMPUTER SCIENCES

Professionals interested in developing innovative research should seek the Computer Science Graduate Program, which offers masters courses with five areas of study in Systems and Computer Science. This program, in a multi-campus character, is offered in the cities of São José do Rio Preto, Bauru, Rio Claro and Presidente Prudente.

### AREA OF CONCENTRATION

Computer Systems

#### RESEARCH AREAS

- Computer Architecture and Distributed Systems
- Database and Software Engineering
- Intelligent Systems
- Image Processing and Computer Vision

### AREA OF CONCENTRATION

Scientific Computing

#### RESEARCH AREAS

- Computational Mathematics

### INSTITUTO DE BIOCÍCIAS, LETRAS E CIÊNCIAS EXATAS CAMPUS SÃO JOSÉ DO RIO PRETO

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PROGRAM	CAPES EVALUATION
M D	M 3



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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

## **GEOSCIENCE AND ENVIRONMENT**

One of the pioneers in studies on environmental analysis, the Geosciences and Environment Program conducts advanced research on environmental and land use planning in urban and rural areas.

### **AREA OF CONCENTRATION**

Geo-sciences and the Environment

#### **RESEARCH AREAS**

- Geo-hazards: Diagnosis, Prevention and Remediation
- Planning and Management of the Physical Environment
- Water and Energy Resources (Sustainable Development)
- Environmental Change (Global and Regional)

## **MATHEMATICS**

Contribute to the regional scientific development, guiding professionals that are capable of taking on this challenge, is one of the goals of the Mathematics Program, which has areas of study in Algebra, Geometry and Applied Analysis.

### **AREA OF CONCENTRATION**

Algebra

#### **RESEARCH AREAS**

- Commutative Algebra

### **AREA OF CONCENTRATION**

Applied Analysis

#### **RESEARCH AREAS**

- Classical Analysis and Numerical Analysis
- Optimization
- Differential Equations

### **AREA OF CONCENTRATION**

Geometry and Dynamical Systems

#### **RESEARCH AREAS**

- Nonlinear Problems and Complex Systems
- Algebraic Topology
- Dynamical Systems and Theory of Singularities

## AREA OF CONCENTRATION

General Issues in Mathematics

### RESEARCH AREAS

- Extension and Provision of Service to Community Mathematics

## MATHEMATICS IN NATIONAL NETWORK

The Program in Mathematics in the National Network tries to improve the quality of education, mainly serving teachers from public schools. The Professional Master (F) is offered in a blended form and is available nationally, coordinated by the Brazilian Mathematical Society (SBM). In UNESP, there are two centers for these Programs: Rio Claro and São José do Rio Preto.

## AREA OF CONCENTRATION

Foundations of Mathematics

### RESEARCH AREAS

- Analysis
- Algebra
- Geometry

## PHYSICS

The Graduate Program in Physics has a consistent academic background that prepares its researchers to prepare a critical and creative scientific production in the areas of Applied Physics, Particles and Fields and Planetology.

## AREA OF CONCENTRATION

Physics

### RESEARCH AREAS

- Dynamic Astronomy
- General Theory of Elementary Particles and Fields
- Dynamics of Flight
- General Physics (Classical Mechanics, Quantum and Statistical Physics)
- Plasma Materials Processing

## INSTITUTO DE GEOCIÊNCIAS E CIÊNCIAS EXATAS

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PROGRAM	CAPES EVALUATION
F	F 3

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PROGRAM	CAPES EVALUATION
M D	M 4 D 4

**INSTITUTO DE GEOCIÊNCIAS E  
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PROGRAM	CAPES EVALUATION
M	M 3

**INSTITUTO DE FÍSICA TEÓRICA  
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PROGRAM	CAPES EVALUATION	
M D	M 7	D 7

## PHYSICS

The Physics Program forms professionals that are able to work in industries and research, with a multidisciplinary focus.

### AREA OF CONCENTRATION

#### Applied Physics

##### RESEARCH AREAS

- Complex and Chaotic Systems
- Condensed Matter and New Materials

## PHYSICS

In addition to innovative experiments, the Physics Program is known for research in Cosmology, Field Theory, Superstrings and Nuclear Physics. However, the main objective is the valorization of the involvement of teachers with their students.

### AREA OF CONCENTRATION

#### Theoretical Physics

##### RESEARCH AREAS

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

## REGIONAL GEOLOGY

The Program in Regional Geology is aimed at those interested in discovery and responsible exploitation of new sources of natural resources. Its studies involve topics in water resources, energy, minerals and geological processes.

### AREA OF CONCENTRATION

Regional Geology

#### RESEARCH AREAS

- Analysis and Evolution of Sedimentary Basins
- Mineral Metallic and Non Metallic resources
- Exogenous Geological Processes
- Crustal Evolution: Tectonic, Magmatic and Metamorphic Characterization

## UNIVERSITY MATHEMATICS

The Graduate Program in University Mathematics offers only the Professional Master course (F). Its goal is to motivate the admission of students into a PhD program, along with training professionals with a good degree of expertise in the area.

### AREA OF CONCENTRATION

Higher Education Mathematics

#### RESEARCH AREAS

- Analysis
- Algebra
- Geometry
- Mathematical Methods

### INSTITUTO DE GEOCIÊNCIAS E CIÊNCIAS EXATAS CAMPUS RIO CLARO

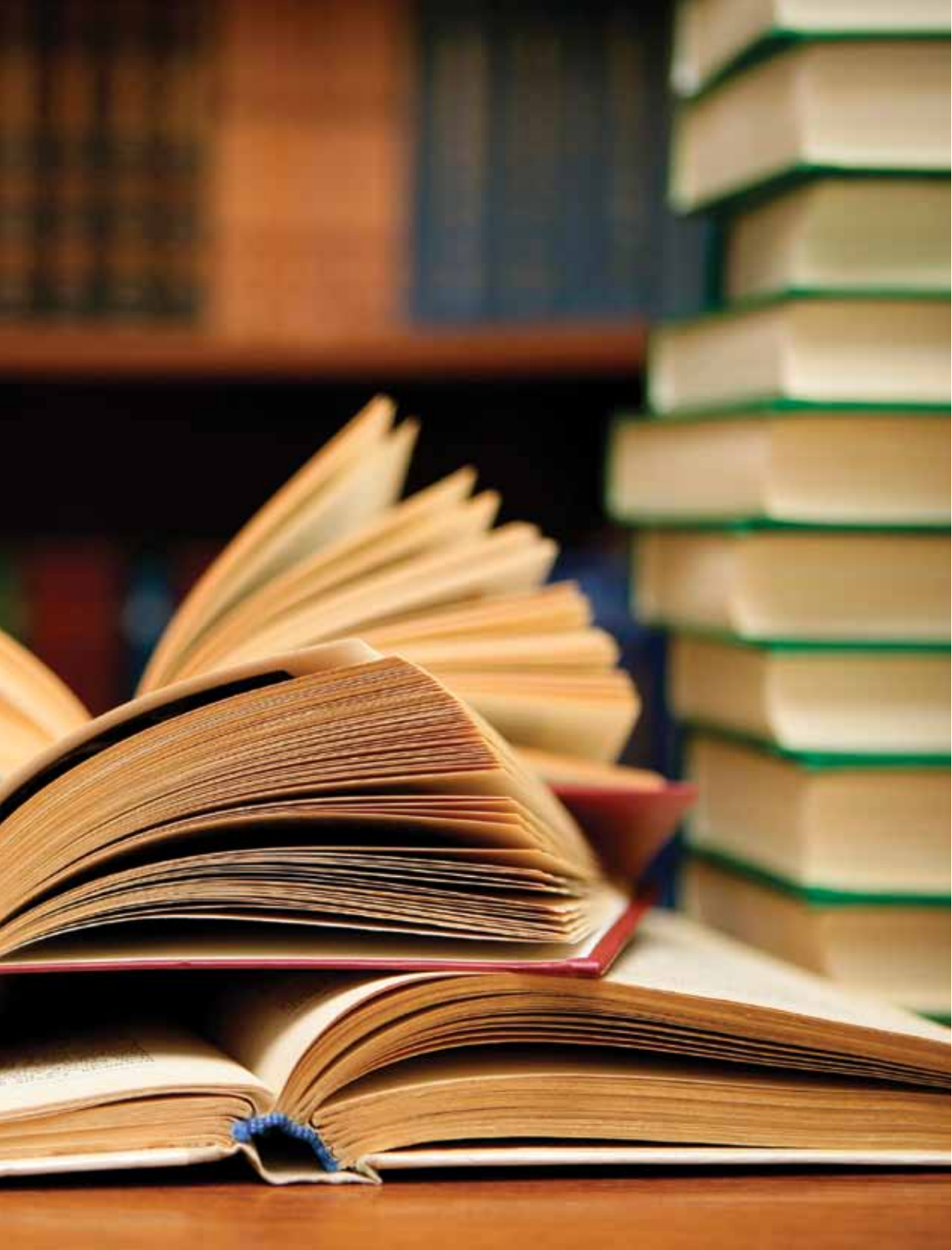
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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

### INSTITUTO DE GEOCIÊNCIAS E CIÊNCIAS EXATAS CAMPUS RIO CLARO

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PROGRAM	CAPES EVALUATION
F	F 3



HUMANITIES

As in Applied Social Sciences, the professionals from the Humanities Program gain forever more in the areas of media and political action. They are the specialists who conceptualize, ponder and show perspectives. UNESP is proud to train outstanding researchers in this area.

The University aims to meet the demands of society, with teachers aware of the new perspectives of interpretation. However, it takes a look into the past to retell the future. Moreover, our programs build that connection. This view is encouraged in students, who, with a critical and independent reflection, consider the relevance of their research with the needs and expectations of the country.

The programs try to collaborate to overcome these social challenges. The Program in School Education weaves its contributions emphasizing social and humane education. Sociology seeks the interpretation and analysis of contemporary issues, focusing on the characteristics of Brazilian society and the richness of its regional diversity. The Geography Program has achieved international recognition with its studies on the Organization of Space. Psychology focuses on the investigation of Subjectivity and Collective Health, Infancy and the Brazilian Reality.

It is worth noting the quality of the libraries on the UNESP campus, which offer excellent opportunities for students to carry out their projects. The history course in Assis has one of the best libraries in the state of São Paulo, as well as the Center for Documentation and Research Support (CEDAP), which gathers a broad collection of printed and microfilmed primary sources.

The members of the program have the opportunity to apply for institutional scholarships from CAPES and the CNPq, and participate in national and international events that contribute to their formation. To disseminate our research to the scientific community and provide the dialogue and exchange of information, the University promotes the publication of articles in periodicals, electronic journals, various seminars and lectures and e-books.

UNESP offers Graduate Programs in Education, Political Science, Philosophy, Geography, History, Psychology and Sociology, six of which are considered as excellent by CAPES. Araraquara, Assis, Bauru, Franca, Marília, Presidente Prudente and Rio Claro are the cities that receive these courses. The International Relations Program is a broad association involving three universities: UNESP, UNICAMP and PUC-SP.

# DEVELOPMENTAL PSYCHOLOGY AND LEARNING

Seeking solutions to social problems and community initiatives, prepare the students for relevant research which advances the scientific debate are some of the principles of the Psychology of Development and Learning Course.

## AREA OF CONCENTRATION

Development and Learning

### RESEARCH AREAS

- Development: Behavior and Health
- Learning and Teaching

# EDUCATION

The development of a society occurs with Education. Professionals with research focused on public policy, administration and learning, the Education Program offers consistent curriculum and qualified guidance.

## AREA OF CONCENTRATION

Education in Brazilian Education

### RESEARCH AREAS

- Teaching, Learning at School and Human Development
- Special Education in Brazil
- Pedagogical Approaches to the Teaching of Language

## AREA OF CONCENTRATION

Public Policy and Administration of Brazilian Education

### RESEARCH AREAS

- Educational Policy, Administration of Educational Systems and School Units
- Philosophy and History of Education in Brazil
- Language

## FACULDADE DE CIÊNCIAS

### CAMPUS BAURU

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PROGRAM	CAPES EVALUATION
M	M 3

## FACULDADE DE FILOSOFIA E CIÊNCIAS

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PROGRAM	CAPES EVALUATION
M D	M 5 D 5



## FACULDADE DE CIÊNCIAS E TECNOLOGIA

### CAMPUS PRESIDENTE PRUDENTE

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

## INSTITUTO DE BIOCÊNCIAS

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

## EDUCATION

Committed to the future of education in Brazil, the Education Program forms qualified professional for teaching, research and advisory activities, with a focus on public and administration policy.

### AREA OF CONCENTRATION

#### Education

##### RESEARCH AREAS

- Formative Processes, Difference and Values
- Public Policies, School Organization and Teacher Education
- Formative Processes and Practices in Education
- Infancy and Education

## EDUCATION

The purpose of the Education Program is to train professionals to reflect on the problems of education and develop solutions in their research areas, such as policy and organizational management and the training of educators.

### AREA OF CONCENTRATION

#### Education

##### RESEARCH AREAS

- Environmental Education
- Language - Experience - Memory - Training
- Education: Policy, Management and the Contemporary Subject
- Training Teachers and Teaching Work

## GEOGRAPHY

The Geography Program is recommended by CAPES and received a score of 7 in its last evaluation. Renowned professors, internationalization, exchange, research on the Production of Space are the keywords of the course. The program also has a Professional Master's Degree Course (F).

### AREA OF CONCENTRATION

Production of Geographical Space

#### RESEARCH AREAS

- Rural Studies and Social Movements
- Regional Development
- Dynamics and Environmental Management
- Cross Axis - Teaching Geography/Theory and Methods in Geography
- Production of Urban Space

## GEOGRAPHY

With over 30 years of experience, the Geography Program provides a consolidated academic training. There are almost 500 dissertations in the period, with professionals working in recognized universities and institutions.

### AREA OF CONCENTRATION

Organization of Space

#### RESEARCH AREAS

- Environmental Analysis and Geographic Information Systems
- Territory, Culture, Education and Methodologies in Geography

## HISTORY

Teachers from the History Program publish the journal *Studies in History*, confirming their contribution to the dissemination of research in the area. Specialized in Culture, the studies are divided into two fields: Social and Political.

### AREA OF CONCENTRATION

History and Culture

#### RESEARCH AREAS

- History and Political culture
- History and Social culture

### FACULDADE DE CIÊNCIAS E TECNOLOGIA

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PROGRAM	CAPES EVALUATION		
M D F	M 7	D 7	F 3

### INSTITUTO DE GEOCIÊNCIAS E CIÊNCIAS EXATAS

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

### FACULDADE DE HISTÓRIA, DIREITO E SERVIÇO SOCIAL

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

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ao=294

PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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graduacao/

PROGRAM	CAPES EVALUATION	
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# HISTORY

Qualified teachers, a Center for Research Support (CEDAP) and one of the best libraries in the state. Those who want to specialize in Cultural Identities, Politics and Religion should contact the History Program in Assis.

## AREA OF CONCENTRATION

### History and Society

#### RESEARCH AREAS

- Policy: Actions and Representations
- Religions and Visions of the World
- Cultural Identities, Ethnicities, Migration

# INTERNATIONAL RELATIONS (UNESP/UNICAMP/PUC-SP)

When three of the best universities in the country - UNESP, UNICAMP and PUC-SP - join their force together, the result is a quality research in security, institutions and foreign policy. Learn about the International Relations Program.

## AREA OF CONCENTRATION

### Foreign policy

#### RESEARCH AREAS

- International Political Economy
- Brazilian Foreign Policy
- Foreign Relations of the United States

## AREA OF CONCENTRATION

### Institutions, Processes and Actors

#### RESEARCH AREAS

- Regional Integration
- State-Nation and Globalization

## AREA OF CONCENTRATION

### Peace, Defense and International Security

#### RESEARCH AREAS

- Strategy, Defense and Foreign Policy
- Regional Security

## MATH EDUCATION

See science in their philosophical dimensions, its role in culture and society is the differential of the research of the Mathematics program. The course is interdisciplinary and is always aware of international trends.

### AREA OF CONCENTRATION

Teaching and Learning of Mathematics and its Philosophical and Scientific Foundations

#### RESEARCH AREAS

- Epistemology and Philosophy in the Education of Mathematics
- Teaching and Learning of Mathematics
- Relations between History and Mathematics Education
- New Technology and Mathematics Education
- Mathematics teacher Pre-Service and Continuing Training

## PHILOSOPHY

The Graduate Program in Philosophy seeks to train researchers and teachers that are able to produce high quality scientific knowledge in the areas of Epistemology, Logic, Ethics, Ethics and the History of Philosophy.

### AREA OF CONCENTRATION

Philosophy of the Mind, Epistemology and Logic

#### RESEARCH AREAS

- Cognitive Science, Semiotics and the Philosophy of the Mind
- Epistemology and Logic

### AREA OF CONCENTRATION

History of Philosophy, Ethics and Political Philosophy

#### RESEARCH AREAS

- History of Philosophy
- Ethics and Political Philosophy

### INSTITUTO DE GEOCIÊNCIAS E CIÊNCIAS EXATAS

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PROGRAM	CAPES EVALUATION	
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PROGRAM	CAPES EVALUATION	
M D	M 4	

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ao=294

PROGRAM	CAPES EVALUATION	
M D	M 3	D 3

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PROGRAM	CAPES EVALUATION	
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## PSYCHOLOGY

Scientific knowledge must expand beyond the major centers, and this is one of the aims of psychology. The Brazilian Reality and Infancy, and Subjectivity and Collective Health are the main areas of research.

### AREA OF CONCENTRATION

Psychology and Society

#### RESEARCH AREAS

- Subjectivity and Collective Health
- The Brazilian Reality and Infancy

## SCHOOL EDUCATION

The School Education Program in the Faculty of Science and Literature is provided to those who believe that education is the future of the country. The training qualifies students to work in public policy, management and teacher training.

### AREA OF CONCENTRATION

Education

#### RESEARCH AREAS

- Pedagogical Theories, Educational Work and Society
- Educational Policy and Management
- Historical, Philosophical and Anthropological Studies about School and Culture
- Teacher Training, Teaching Work and Pedagogical Practices
- Work Education: Psychological Foundations and Special Education

## SOCIAL SCIENCES

To investigate the changes in society and the impact on social, political and cultural life, developing a critical and interdisciplinary opportunity in the student, are the objectives of the Social Sciences Program.

### AREA OF CONCENTRATION

Social science

#### RESEARCH AREAS

- Social Thought and Public Policy
- Culture, Identity and Memory
- Work, Politics and Sociability
- International Relations and Development

## SOCIOLOGY

Trying to understand this enigma called Brazil, with an emphasis on contemporary social issues and regional diversity. This is the contribution that students of the Graduate Program in Sociology offer with their research.

### AREA OF CONCENTRATION

Sociology

#### RESEARCH AREAS

- Civil Society, Labor and Social Movements
- Culture and Social Thought
- State, Institutions and Public Policies
- Gender, Ethnicity and Health

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PROGRAM	CAPES EVALUATION	
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[CodigoMenu=1&CodigoOpcao=181](http://www.fclar.unesp.br/index.php?CodigoMenu=1&CodigoOpcao=1817&Opcao=245)

[7&Opcao=245](http://www.fclar.unesp.br/index.php?CodigoMenu=1&CodigoOpcao=1817&Opcao=245)

PROGRAM	CAPES EVALUATION	
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APPLIED SOCIAL SCIENCES



Previously, the analysis and discussion of social phenomena remained within the University. Today, the professionals from the Program in Applied Social Sciences have a more decisive action on the central issues of society such as decision making or consultants of public policies. UNESP trains professionals who take on this challenge, with an awareness of their responsibility.

The area of Applied Social Sciences comprises Architecture and Urban Planning, Communication, Law, Economics, Social Services and Museology. The programs of Design and Information Science are a national reference, with high quality scientific research.

Among the various spheres of activity, the University invests in the development of service and research networks, monitoring and analyzing public policies in different segments such as security and violence, respect for human rights and fundamental freedom, the investigation of cultural impacts of media products, digital inclusion and culture of entrepreneurship.

These issues expose the concern of UNESP in complying with the changes and the demands of society that requires teachers with a solid training and aware of the new perspectives of analysis and interpretation. Furthermore, they stimulate in the students a critical and independent reflection, considering the relevance of their research.

The University also promotes various lectures and seminars in its units as a means to promote dialogue and work of our researchers in the scientific community. The cities of Bauru, Marília, Araraquara and Franca concentrate the activities of the Programs that receive graduate students in national institutions or universities with a recognized equivalence. The target audience includes professionals in the areas of teaching, research and planning, consulting and advisory services, NGOs, private and public companies, political parties and other entities.

## COMMUNICATION

In the Graduate Studies course in Communication, students and professionals investigate and reflect on the impact of media on our daily lives, culture and politics. The research covers genres, formats and technological transformations.

### AREA OF CONCENTRATION

Media communication

#### RESEARCH AREAS

- Production of Meaning in Mediatic Communication
- Socio-cultural Processes and Mediatic Practices
- Management and Policy Information and Mediatic Communication

## DESIGN

Highlighting the relationship between education, science and technology, with an eye on societies needs. The principles of the Graduate Program in Design guide the research focused on ergonomics and product planning.

### AREA OF CONCENTRATION

Product Design

#### RESEARCH AREAS

- Ergonomics
- Product Planning

### FACULDADE DE ARQUITETURA, ARTES E COMUNICAÇÃO CAMPUS BAURU

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PROGRAM	CAPES EVALUATION
M	M 4

### FACULDADE DE ARQUITETURA, ARTES E COMUNICAÇÃO CAMPUS BAURU

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## FACULDADE DE CIÊNCIAS E LETRAS

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PROGRAM	CAPES EVALUATION
M	M 3

## FACULDADE DE FILOSOFIA E CIÊNCIAS

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PROGRAM	CAPES EVALUATION	
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## ECONOMY

Those who chooses the Graduate Program in Economics knows that the labor market rewards those with a qualified interpretation of reality. The research areas include Economic Theory, Quantitative Methods and History.

### AREA OF CONCENTRATION

#### Economy

#### RESEARCH AREAS

- Economic History
- Economic Theory
- Economic Policy, Finance and Development
- International Trade and the Environment
- Industrial Economics and Innovation
- History of Economic Thought and Political Economy

## INFORMATION SCIENCES

Information as a raw material for the development of knowledge. With an interdisciplinary approach that goes from Psychology to Mathematics, the Information Sciences Program conducts research in management, production and technology.

### AREA OF CONCENTRATION

#### Information, Technology and Knowledge

#### RESEARCH AREAS

- Information and Technology
- Production and Organization of Information
- Management, Mediation and Use of Information

## LAW

The Law Program has as its principle the respect for human rights and fundamental freedom. Its research addresses issues such as citizenship and public policy. The course also promotes international exchanges.

### AREA OF CONCENTRATION

Citizenship Foundations and Normative Systems

#### RESEARCH AREAS

- Law, Markets and International Relations
- Law, Society and Public Policy
- Effectiveness and Enforcement of Fundamental Rights

## SOCIAL SERVICES

The only public Graduate course in Social Work in the state, the program is aimed at graduates in the area and other professionals such as lawyers and journalists. The course objective is to analyze and classify social interventions.

### AREA OF CONCENTRATION

Work and Society

#### RESEARCH AREAS

- Social Service: the World of Work
- Social Service: Training and Professional Practice

### FACULDADE DE HISTÓRIA, DIREITO E SERVIÇO SOCIAL CAMPUS FRANCA

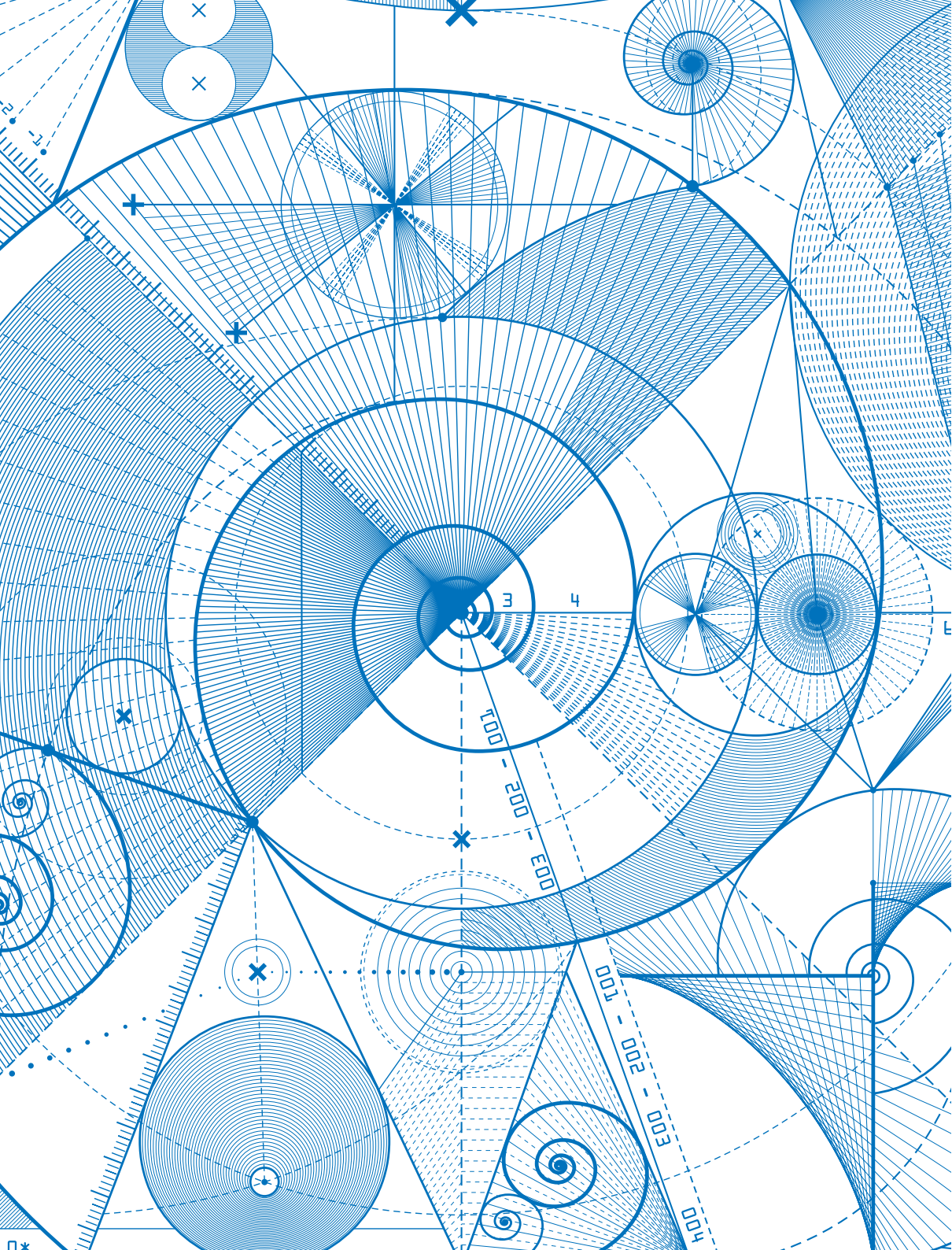
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### FACULDADE DE HISTÓRIA, DIREITO E SERVIÇO SOCIAL CAMPUS FRANCA

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ENGINEERING

The area of Engineering has a great economic importance, for its innovative solutions boost the production of the country. The research developed in our laboratories has global impact and recognition. This is the profile of the professional that UNESP prepares: the one that stands out in the global market.

The good state of the Brazilian economy and the heavy public and private investments make the area more attractive for researchers to develop their projects.

A multidisciplinary training that provides an innovative, entrepreneurial and environmentally responsible culture is the goal of the area. Attentive to the needs of the domestic industry, it generates research that increases the capacity of international competition, to streamline and optimize production. Concern for the environment translates into studies in sustainable engineering, the rational use of energy, development of materials or Biofuels.

Electrical, Mechanical, Production, Civil and Environmental Engineering are some of the Graduate Programs in the University, all with great grades in the CAPES appraisal.

The upgrading of equipment, the construction and maintenance of specialized laboratories such as Informatics, Structure and Materials, Geochemistry, Robotics, as well as the libraries is continuous. All thanks to the support that has been obtained for research projects or resources from the university itself. Besides all this structure, the faculty has proven academic ability, with studies of national and international scientific relevance.

Several seminars and workshops are conducted on its campuses, intensifying the debate and exchange of information in the scientific community. The participation in national and international events that contribute to the formation of our teachers and students is also encouraged.

The Graduate Program in Materials Science, Mechanical Engineering, Electrical Engineering, Civil Engineering, Civil and Environmental Engineering and Production Engineering are also provided in the Northwest, East and Central areas of the State of São Paulo, in the cities of Bauru, Guaratinguetá, Ilha Solteira and Sorocaba.

In this area, several programs are multicampus or inter-unit, which shows interesting Graduate format, because it brings together existing expertise in various UNESP units.

# CIVIL AND ENVIRONMENTAL ENGINEERING

With multidisciplinary approach, teachers from the Program in Civil and Environmental Engineering assist in the research and the creation of geotechnical and environmental sanitation projects, contributing to a sustainable development of the country.

## AREA OF CONCENTRATION

Geotechnical

### RESEARCH AREAS

- Geoenvironmental Research and Monitoring
- Diagnosis and Interventions in Watersheds

## AREA OF CONCENTRATION

Sanitation

### RESEARCH AREAS

- Waste Management
- Pollution and Control

# CIVIL ENGINEERING

The continuous training of its staff makes the Civil Engineering Program a regional center of knowledge and technology. The research is concentrated in two areas: Structures and Water Resources and Environmental Technologies.

## AREA OF CONCENTRATION

Structures

### RESEARCH AREAS

- Structural and Constructive Systems
- Building Materials

## AREA OF CONCENTRATION

Water Resources and Environmental Technologies

### RESEARCH AREAS

- Assessment, Conservation and Quantification of Water Resources
- Treatment Technologies for Water and Wastewater
- Isolated Project

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PROGRAM	CAPES EVALUATION
M D	M 3

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

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PROGRAM	CAPES EVALUATION	
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## ELECTRICAL ENGINEERING

Scientific research and high quality teaching are priorities in the Electrical Engineering Program, which operates in the formulation, implementation and management of automation projects, especially in energy systems and mechatronics.

### AREA OF CONCENTRATION

Automation

#### RESEARCH AREAS

- Power Systems
- Mechatronics

## ELECTRICAL ENGINEERING

The Electrical Engineering program is suitable for professionals interested in two areas of research: Control and Electronic Instrumentation and Power Systems, carried out in specialized laboratories.

### AREA OF CONCENTRATION

Automation

#### RESEARCH AREAS

- Electrical Power Systems
- Control and Electronic Instrumentation

## MATERIALS SCIENCE

Cooperate with researchers from other fields, universities or the *campus* UNESP. The collaborative process is essential for the Materials Science Program, which offers students an interdisciplinary academic education.

### AREA OF CONCENTRATION

Condensed Matter Physics

#### RESEARCH AREAS

- Polymeric Materials
- Vitreous and ceramic materials
- Ferroelectric Materials
- Superconducting materials
- Theory and modeling of mesoscopic systems

### AREA OF CONCENTRATION

Materials Science and Engineering

#### RESEARCH AREAS

- Structural, electrical, thermal and mechanical properties
- Nanostructured and hybrid materials
- Composites and natural products

## MECHANICAL ENGINEERING

The Mechanical Engineering Program seeks to integrate the university and companies to divulge sustainable technological innovations. In an environment of cooperative research, it promotes the exchange with national and foreign universities.

#### AREA OF CONCENTRATION

Manufacturing Processes

#### RESEARCH AREAS

- Manufacturing Processes (Machining and Welding)
- Heat and Mass Transfer
- Equipment and Thermal Processes
- Modeling and Design of Mechanical Systems

## MECHANICAL ENGINEERING

With areas of research focused on the Transmission and Conversion of Energy, the Mechanical Engineering Program enables professionals to conduct research at an international level and develop new technologies for the country.

#### AREA OF CONCENTRATION

Transmission and Energy Conversion

#### RESEARCH AREAS

- Transmission and energy conversion
- Environmental Management and Sustainability

#### AREA OF CONCENTRATION

Projects

#### RESEARCH AREAS

- Dynamics and Vibration in Mechanical Systems
- Semiological Engineering

#### AREA OF CONCENTRATION

Materials

#### FACULDADE DE ENGENHARIA CAMPUS BAURU

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PROGRAM	CAPES EVALUATION
M	M 4

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<http://www.feg.unesp.br/posgraduacao/index-fisica.php>

PROGRAM	CAPES EVALUATION
M D	M 5 D 5

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<http://www.feis.unesp.br/index.php/instituicao/administracao/132-posgraduacao>

PROGRAM	CAPES EVALUATION
M	M 4

### RESEARCH AREAS

- Mechanical Micro-structural Characterization and Fractography of Materials
- Corrosion
- Composite and Lignocellulosic Materials

### AREA OF CONCENTRATION

Management and Optimization

### RESEARCH AREAS

- Quality Management and Organizational Engineering
- Operation Management and Logistics

## MECHANICAL ENGINEERING

Being close to graduate students, directing undergraduate research projects, internships and other curricular activities are fundamental parts for teachers and graduate students in the Mechanical Engineering Program.

### AREA OF CONCENTRATION

Solid Mechanics

### RESEARCH AREAS

- Monitoring and Fault Diagnosis of Machinery and Equipment
- Dynamics of Mechanical Systems

### AREA OF CONCENTRATION

Materials and Manufacturing Processes

### RESEARCH AREAS

- Manufacturing Processes
- Mechanical Characterization of Materials

### AREA OF CONCENTRATION

Thermal Sciences and Fluid Mechanics

### RESEARCH AREAS

- Energy and Thermal Systems
- Fluid Mechanics and Heat Transfer

## PRODUCTION ENGINEERING

Create solutions and technologies to confront problems in Operations Management and Systems in Organizations with projects that respect regional vocations and the environment, these are the challenges are addressed by the Program in Production Engineering.

### AREA OF CONCENTRATION

Operations Management and Systems

#### RESEARCH AREAS

- Strategic Management of Production and Systems
- Applied Quantitative Methods
- Environmental Management

## SCIENCE AND TECHNOLOGY OF MATERIALS

With and institutional character and integrating research activities on various UNESP *campuses*, the Program in Science and Technology of Materials is synonymous with excellence.

### AREA OF CONCENTRATION

Science and Technology of Materials

#### RESEARCH AREAS

- Polymeric, hybrid and nanostructured materials
- Electronic and photonic materials
- Modeling and simulation in materials
- Processing of materials, development of devices and applications
- Science and engineering of interfaces
- Characterization of materials
- Biomaterials

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PROGRAM	CAPES EVALUATION
M	M 3

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<http://www.fc.unesp.br/spg>

PROGRAM	CAPES EVALUATION	
M D	M 5	D 5



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# LANGUAGE, LITERATURE AND ARTS

Research Program in Linguistics, Literature and Arts has the critical task of pointing out the relevance of the more diverse cultural expressions and the subtleties of our language. UNESP education allows students to recount the past and follow the present of artistic production in Brazil and worldwide.

With the speed of technological and cultural changes, it creates new needs and study spaces. Therefore, it is necessary to have a faculty with a broad and solid academic background to follow this process. For this reason, the Program has constant adjustments in its curriculum, which reflect the dynamics and trends of each field of knowledge.

It encourages critical and autonomous reflections, using the theoretical tools, that are essential for the UNESP student.

Literature and Linguistics has two areas of research: Linguistics and Literary Studies, built and consolidated by the great scientific production related to History and Theory, always conversing with other disciplines.

In the Arts Programs, students develop their potential with a close relationship with the materials and the creative process, along with boosting their sensitivity together with analytical capabilities. There are three major areas of study: Visual Arts, Performing Arts and Arts and Education. They deepen the aesthetic and poetic knowledge, and are incorporated in experiences and educational approaches. Art as a means of learning.

The Courses have at their disposal Photographic laboratories, Silk Screen Printing, Metal Etching , Ceramics, Painting and Drawing. The results of this work are exhibited annually at the Art Week at the Institute of Arts (Semana de Arte do Instituto de Artes) (SAIA). There are also courses in music, which highlights research in the Creative and Epistemology Process.

Furthermore, several conferences, seminars and lectures are held that bring the direct contact of students with the most renowned names in the academic community, as well as to expose the production of our researchers to this universe. Intensify dialogue, exchange of ideas and experiences.

# ARTS

The Graduate Program in Arts carries out aesthetic, poetic research, and educational experiences in Visual Arts, Performing Arts and Arts and Education. Besides the scientific enhancement, the course excels because of the diffusion of knowledge.

## AREA OF CONCENTRATION

Visual Arts

### RESEARCH AREAS

- Theoretical, Historical and Cultural Arts Approaches
- Artistic Processes and Procedures

## AREA OF CONCENTRATION

Performing Arts

### RESEARCH AREAS

- Aesthetics and Poetic Performing Arts

## AREA OF CONCENTRATION

Art and Education

### RESEARCH AREAS

- Artistic Processes, Educational Experiences and Cultural Mediation

## INSTITUTO DE ARTES

### CAMPUS SÃO PAULO

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<http://www.ia.unesp.br/pos/stricto/artes/index.php>

PROGRAM	CAPES EVALUATION	
M D	M 4	D 4



INSTITUTO DE BIOCÊNCIAS,  
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posgraduacao/index.php](http://www.ibilce.unesp.br/posgraduacao/index.php)

PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## LANGUAGE STUDIES

The Graduate Program in Linguistic Studies aims to train teachers for higher education and researchers capable of contributing to its two areas of study: Linguistic Analysis and Applied Linguistics.

### AREA OF CONCENTRATION

Applied Linguistics

#### RESEARCH AREAS

- Teaching and Learning Languages
- Translation Studies

### AREA OF CONCENTRATION

Linguistic Analysis

#### RESEARCH AREAS

- Functional Description of the Oral and Written Language
- Orality and Literacy
- Handling of the Lexicon in the General Language
- Studies of Text and Speech
- Language Variation and Change
- Description and Analysis of Specialty Languages

## LINGUISTICS

Progressive adjustments to improve its program mark the Graduate Literature Program. The areas of Philology, Linguistics, Literary Theory and Comparative Literature in Portuguese are divided into several areas of research.

### AREA OF CONCENTRATION

Literature and Social Life

#### RESEARCH AREAS

- Archives of Memory: Sources and Literary and Cultural Periodicals
- Poetics of the Literary Text: Culture and Representation
- Readings of Modernity: Theoretical Perspectives, Critical and Literary Studies Comparisons

## LINGUISTICS

The ability of its guides together with the performance of the students achieved a grade five in the CAPES appraisal for the Literature Program. The course has two areas of study: Theory of Literature in and Portuguese Language Literature.

### AREA OF CONCENTRATION

Portuguese Language Literature

#### RESEARCH AREAS

- History, Culture and Literature
- Poetics of Identity

### AREA OF CONCENTRATION

Literary Theory

#### RESEARCH AREAS

- Image, Music and Literary Text
- Theoretical Perspectives in the Study of Literature

### FACULDADE DE CIÊNCIAS E LETRAS

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

### INSTITUTO DE BIOCÊNCIAS, LETRAS E CIÊNCIAS EXATAS

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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

**FACULDADE DE CIÊNCIAS E LETRAS**

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[CodigoMenu=1&CodigoOpcao=181](http://www.fclar.unesp.br/index.php?CodigoMenu=1&CodigoOpcao=1817&Opcao=245)

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PROGRAM	CAPES EVALUATION	
M D	M 6	D 6

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[CodigoMenu=1&CodigoOpcao=181](http://www.fclar.unesp.br/index.php?CodigoMenu=1&CodigoOpcao=1817&Opcao=245)

[7&Opcao=245](http://www.fclar.unesp.br/index.php?CodigoMenu=1&CodigoOpcao=1817&Opcao=245)

PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## LINGUISTICS AND PORTUGUESE LANGUAGE

The Program in Linguistics and the Portuguese language are among the seven best in the country. Coherence and consistency in the proposal, qualified staff and a good volume of publications make the program a national reference.

### AREA OF CONCENTRATION

Linguistics and the Portuguese Language

#### RESEARCH AREAS

- Lexicon Studies
- Teaching/Learning of Language
- Structure, organization and discursive and textual functions
- Phonological, Morphosyntactic, Semantics and Pragmatics Analysis

## LITERARY STUDIES

Flexibility, improvement and renewal are essential words in the Literary Studies Program. The various areas of research in Theory, Criticism and History of Literature are coupled with rigorous methodological criteria.

### AREA OF CONCENTRATION

Theories and Criticism of Literature

#### RESEARCH AREAS

- Theories and Criticism of Poetry
- Literary History and Criticism
- Narrative Theory and Criticism
- Theories and Criticism of Drama
- Intersemiotic Relations

# MUSIC

A qualified and critical training, with research related to teaching and scientific deepening of studies are the objectives of the Music Program, whose study subjects are the Creation Process, Musical Language and Epistemology.

## AREA OF CONCENTRATION

Musicology/Ethnomusicology

### RESEARCH AREAS

- Educational, Aesthetic and Historical Approaches of the Processes of Creation, Transmission and Reception of Musical Language

## AREA OF CONCENTRATION

Interpretation/Theory and Composition

### RESEARCH AREAS

- Epistemology and Praxis of the Creative Process

## INSTITUTO DE ARTES

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[musica/index.php](http://www.ia.unesp.br/pos/stricto/musica/index.php)

[http://www.ia.unesp.br/pos/stricto/](http://www.ia.unesp.br/pos/stricto/artes/index.php)

[artes/index.php](http://www.ia.unesp.br/pos/stricto/artes/index.php)

PROGRAM	CAPES EVALUATION	
M D	M 4	D 4



# MULTIDISCIPLINARY AND SCIENCE EDUCATION

The creation of the large multidisciplinary area resulted from the need to cope with new problems of various types and levels of increasing complexity, which emerge in the contemporary world. Thus, this area brings a diverse range of Graduate Programs, which is particularized by bringing together different areas of expertise to address one or more themes and contribute to advancing the frontiers of science and technology.

Currently, the area takes account of new theoretical and methodological procedures of research, the incorporation of interdisciplinary perspectives and a more inclusive curriculum structure, with a view to training a professional with an innovative profile.

The complexity of the multidisciplinary area led to its division into sub-areas: Interdisciplinary, Materials and Biotechnology. In an interdisciplinary sub-area, there is the effective interaction of two or more areas, with the transfer of methods and the training of a professional with a distinct profile of the existing ones. In education, especially Science and Mathematics, there is the integration of physicists, chemists, biologists and geologists, for example, professionals in humanities and social sciences such as psychologists, historians, educators, and others. Therefore, in a multidisciplinary way, these professionals are dedicated to the study of issues related to teaching and learning disciplines. In the Materials sub-area, which is in increasing evolution, a field of intense scientific and technological innovation has been created, which involves researchers that are trained in Physics, Engineering, Chemistry, Computer Science, Mathematics, Geology, Biology and Biomedicine. With specific characteristics, Biotechnology involves the use of microorganisms, plants, animals and enzymes to synthesize, degrade and/or process materials, and seek to transfer the basic knowledge for industry in generating new products and patents.

In UNESP, the 9 Graduate Multidisciplinary Programs include the fields of Biometrics, Digital TV, Human Development and Technologies, Education for Science and Mathematics, Science and Technology of Materials, Biotechnology.

## BIOMETRICS

The Biometrics program aims to apply mathematical, statistical and computational methodologies for research in Health and Biology. Interdisciplinary, the course welcomes students from different areas of knowledge.

### AREA OF CONCENTRATION

Biometrics

#### RESEARCH AREAS

- Biostatistics
- Mathematical Modeling and Computer Simulation of Bio-systems

## DIGITAL TELEVISION: INFORMATION AND KNOWLEDGE

Those that take part in the Digital Television Program that offers the Professional Master course (F) follow the digitalization of the UNESP University Television and the development of the Brazilian System of Digital Terrestrial Television (SBTVD-T), working in the areas of Information and Communication Management, Long Distance Learning and Technology.

### AREA OF CONCENTRATION

Communication, Information and Education in Digital Television

#### RESEARCH AREAS

- Communication and Information Management for Digital Television
- Education Aided by Digital Television

### AREA OF CONCENTRATION

Technology and Digital Television

#### RESEARCH AREAS

- Technological Innovation for Digital Television

### INSTITUTO DE BIOCÊNCIAS

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[graduacao.php](http://graduacao.php)

PROGRAM	CAPES EVALUATION
M	M 4

### FACULDADE DE ARQUITETURA,

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PROGRAM	CAPES EVALUATION
F	F 3



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PROGRAM	CAPES EVALUATION	
M D	M 5	D 5

## EDUCATION SCIENCES

The pioneering spirit is the hallmark of the Science Education Program. The work of the teachers has repercussions across the country. The next step is to build a Research and Development Center for Education. Take part in this story.

### AREA OF CONCENTRATION

Teaching Science and Mathematics

#### RESEARCH AREAS

- Philosophy, History and Sociology of Science in Science Education
- Foundations and Psycho-pedagogical Models in Teaching Science and Mathematics
- Language, Speech and Science Teaching
- Science, Technology, Environment and Human Development
- Computing in Science and Mathematics Education
- Science Teaching in Informal Spaces and Scientific Disclosures

# HUMAN DEVELOPMENT AND TECHNOLOGIES

The Human Development and Technology Program emerged from a realization of its teachers: they had to innovate the training of the professionals in the area. The result of this effort is in qualified guidance of the research.

## AREA OF CONCENTRATION

Pedagogy of Human Kinetics

### RESEARCH AREAS

- Technology and Human Performance
- Technologies, Body and Culture

## INSTITUTO DE BIOCÊNCIAS

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PROGRAM	CAPES EVALUATION	
M D	M 4	D 4

## CAMPUS & COURSES



CAMPUS	M	D
<b>Araçatuba</b>		
Animal Science	■	■
Dentistry	■	■
Physiology	■	■
<b>Araraquara</b>		
Biosciences	■	■
Chemistry	■	■
Dentistry	■	■
Economics	■	
Education	■	■
Language Studies	■	■
Linguistics	■	■
Nutrition	■	■
Pharmacy / Biochemistry	■	■
Physiology	■	■
Social Sciences	■	■
<b>Assis</b>		
Biological Sciences	■	
History	■	■
Language Studies	■	■
Psychology	■	■

CAMPUS	M	D
<b>Bauru</b>		
Civil Engineering	■	
Communication	■	
Design	■	■
Digital TV	■	
Education	■	■
Electrical Engineering	■	
Environmental Engineering	■	
Materials Science	■	■
Mechanical Engineering	■	
Production Engineering	■	
Psychology	■	
<b>Botucatu</b>		
Agronomy	■	■
Animal Science	■	■
Biological Sciences	■	■
Forest Engineering	■	■
Medicine	■	■
Nursing	■	
Veterinary Medicine	■	■
<b>Dracena</b>		
Animal Science	■	

CAMPUS	M	D
<b>Franca</b>		
Law	■	
History	■	■
Social Services	■	■
<b>CAMPUS</b>		
<b>Guaratinguetá</b>		
Civil Engineering	■	
Mechanical Engineering	■	■
Physics	■	■
<b>Ilha Solteira</b>		
Agronomy	■	■
Animal Science	■	
Civil Engineering	■	
Electrical Engineering	■	■
Materials Science	■	■
Mechanical Engineering	■	
<b>Jaboticabal</b>		
Aquiculture	■	■
Agronomy	■	■
Animal Sciences	■	■
Veterinary Medicine	■	■
<b>Marília</b>		
Information Sciences	■	■
Education	■	■
International Relations	■	■
Philosophy	■	
Social Sciences	■	■
Speech and Hearing Therapy	■	
<b>Presidente Prudente</b>		
Cartography	■	■
Education	■	■
Geography	■	■
Mathematics and Computer Sciences	■	
Material Science	■	■
Physical Therapy	■	

CAMPUS	M	D
<b>Rio Claro</b>		
Biological Sciences	■	■
Education	■	■
Geography	■	■
Geology	■	■
Geosciences	■	■
Motricity Sciences	■	■
Mathematics	■	
Physics	■	
<b>São José dos Campos</b>		
Dentistry	■	■
<b>São José do Rio Preto</b>		
Biological Physics	■	■
Biological Sciences	■	■
Chemistry	■	
Computer Sciences	■	
Food Engineering	■	■
Language Studies	■	■
Mathematics	■	■
<b>São Paulo</b>		
Visual Arts	■	■
Music	■	■
Theoretical Physics	■	■
<b>Sorocaba</b>		
Environmental Eng.	■	
Materials Science	■	■

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Pro-rectory of graduation. II. Title.

**CDD**