



# Luiz de Queiroz College of Agriculture

## Course Offerings

### Degree codes:

- 11010 - Agriculture
- 11020 - Forestry
- 11040 - Licentiate Degree in Agriculture
- 11050 - Economics
- 11061 - Food Science
- 11070 - Biological Sciences (104 = Licentiate Degree; 4 = Bachelor Degree)
- 11080 - Environmental Management
- 11090 - Management

ID	Course Name	Professor	Course Content Summary	Total Course Hours	Semester	Degree code
LEA0170	Invertebrate Zoology I	Italo Delalibera Junior	Characterization and importance of the Porifera, Cnidaria, Platyhelminthes, Nemata, Mollusca, Annelida, Echinodermata phyla and smaller invertebrate groups; Taxonomy, biology, collection and preservation methods, and importance of related groups.	90	1 <sup>st</sup>	11070
LEA0200	Invertebrate Zoology II	Fernando Luis Cônsoli	Insect importance, general characteristics, collection, assembling and conservation; External morphology: exoskeleton; head: eyes, antennae and mouthparts; thorax: segmentation, wings, legs; abdomen: segmentation, appendages and genitalia; Physiology and internal morphology: sense organs, muscular and nervous systems, respiratory, circulatory, digestive and reproductive apparatus; Reproduction and development; Entomological collection; Taxonomy: insect subclasses and orders; classification of the main families of the Orthoptera, Hemiptera, Diptera, Coleoptera, Lepidoptera, Hymenoptera, Odonata, Dermaptera and Neuroptera orders.	90	2 <sup>nd</sup>	11070
LEA0221	Forest Entomology	Wesley Augusto Conde Godoy	General Entomology: morphology, physiology and principles of systematics; Control methods; Forest Entomology; Important forest insect orders; Forest pest and products; Forest pest integrated management; Description, biology, habits, damage, sampling methods and control of pests of native and exotic forest tree species.	75	2 <sup>nd</sup>	11020



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LEA0322	General Entomology	Alberto Soares Correa Celso Omoto	Insect importance, general characteristics, collection, assembling and conservation; External morphology: exoskeleton; head: eyes, antennae and mouthparts; thorax: segmentation, wings, legs; abdomen: segmentation, appendages and genitalia; Physiology and internal morphology: sense organs, muscular and nervous systems, respiratory, circulatory, digestive and reproductive apparatus; Reproduction and development; Entomological collection; Taxonomy: insect orders; classification of the main families of the Orthoptera, Hemiptera, Diptera, Coleoptera, Lepidoptera, Hymenoptera, Odonata, Dermaptera and Neuroptera orders; Decomposer insects; Chemical communication among insects; Social behavior of insects.	60	2 <sup>nd</sup>	11010
LEA0430	Crop Pests	Joao Roberto Spotti Lopes José Maurício Simões Bento Pedro Takao Yamamoto	Identification, biology, habits, economic importance, sampling and control of pests of major crops: cotton, soybean, peanuts, beans, pasture, rice, wheat, corn, sugarcane, coffee, citrus, bananas and other fruit crops (avocado, pineapple, guava, papaya, mango, passion fruit, melon), vegetable crops (especially Solanaceae, Cucurbitaceae and Liliaceae); Pests of multiple crops: leaf-cutting ants and termites; Identification of natural enemies.	60	1 <sup>st</sup>	11010



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LEA0434	Useful Insects	Luis Carlos Marchini	Sericulture: mulberry cultivation and pests; Silkworm rearing: techniques, prophylaxis, economic importance; Beekeeping: economic exploitation, main bee subspecies, housing types, gears, bee flora, migratory beekeeping, hive standing, insect pollination, queen bee breeding, honey, wax and royal jelly production, bee diseases, bee enemies; Dung beetles; Students have contact with bees in theoretical and practical classes; for allergic people, a medical certificate to be exempted from the classes is required to avoid life-threatening events.	60	1 <sup>st</sup>	11020 11010
LEA0498	Acarology	Gilberto José de Moraes	Introduction to the Acari; The taxonomic relationship of the Acari with other organism groups; Types of damage caused by the Acari; The preparation of the Acari for taxonomic studies; The biology and behavior of the Acari; Main species found in major crops, stored products, soil, domestic dust, useful insects and pets; Harmful species control.	60	2 <sup>nd</sup>	11070 11010
LEA0592	Applied Entomology	José Maurício Simões Bento Pedro Takao Yamamoto	Pest control: legal, mechanical, cultural, plant resistance to insects, behavioral (pheromones) and physical (electromagnetic radiation) methods; Biological control: microbes, predators, parasites, rearing and field application techniques; Chemical control: organophosphate, carbamate and pyrethroid insecticides, insect growth regulators, acaricides and application methods; Integrated pest management; Pesticide toxicology and rational use.	60	2 <sup>nd</sup>	11010



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LEA0615	Supervised Internship in Entomology and Acarology I	Luis Carlos Marchini	Students will follow the development of a research project within one of the major research areas of the Entomology and Acarology Department: 1) Taxonomy and Bioecology; 2) Arthropod-Plant-Microbe Interactions; 3) Integrated Pest Management Strategies.	105	1 <sup>st</sup> /2 <sup>nd</sup>	11070 11020 11010
LEA0635	Supervised Internship in Entomology and Acarology II	Luis Carlos Marchini	Implementation of a research project within one of the major research areas of the Entomology and Acarology Department: 1) Taxonomy and Bioecology; 2) Arthropod-Plant-Microorganism Interactions; 3) Integrated Pest Management Strategies.	105	1 <sup>st</sup> /2 <sup>nd</sup>	11070 11020 11010