



# 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    |
|---------|----------------------------------|--|---|--------------------|-----------------|----------------|
| LFN0125 | Environmental Microbiology       | Ivan Paulo Bedendo<br>Nelson Sidnei Massola Júnior           | Bacteria, fungi and virus general characteristics; Microorganism physiology topics; Basic notions of microorganism role in the environment.   | 30                 | 2 <sup>nd</sup> | 11080          |
| LFN0212 | General Zoology and Parasitology | Mario Massayuki Inomoto                                      | Invertebrates: Protist and Platyhelminthes, Nemata, Mollusca, Annelida and Arthropoda philo member importance and characterization; Nematology and Agricultural acarology; Vertebrates: Chordata phylo, Osteichthyes, Amphibia, Reptilia, Aves and Mammalia class importance and characterization.  | 60                 | 1 <sup>st</sup> | 11020<br>11010 |
| LFN0225 | General Microbiology             | Francisco André Osamu Tanaka<br>Sergio Florentino Pascholati | Microbiology basic concepts; Bacteria, fungi and virus general characteristics; Microorganism physiology, metabolism, nutrition and cultivation; Microorganism control (chemical and physical agents); Interrelationships between microorganisms and living beings; Water, soil and air microbiology notions; Microorganism and Genetic Engineering notions; Microorganism and Biotechnology notions. | 60                 | 1 <sup>st</sup> | 11070          |



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|---------|--------------------------------|--|--|----|-----------------|----------------|
| LFN0233 | Animal Science and Environment | Gilberto José de Moraes<br>Mario Massayuki Inomoto     | Animal science classification; Invertebrates: Protozoa, Porifera, Cnidaria, Platyhelminthes, Nemata, Mollusca, Annelida, Echinodermata and Arthropoda phyla characterization and importance; Vertebrate characterization and importance of Chondrichthyes, Osteichthyes, Amphibia, Reptilia, Aves and Mammalia classes.  | 75 | 2 <sup>nd</sup> | 11080          |
| LFN0321 | Microbiology                   | Nelson Sidnei Massola Jr.                              | Microbiology basic concepts; Bacteria, fungi, virus and viroid general characteristics; Microorganism physiology, nutrition and cultivation; Microorganism control; Microorganisms and their importance in agricultural and forest sciences.   | 60 | 1 <sup>st</sup> | 11020<br>11010 |
| LFN0424 | Plant Pathology                | Ivan Paulo Bedendo<br>Jorge Alberto Marques<br>Rezende | History of microbiology; Biogenesis and abiogenesis theories; Endosymbiosis theory; Microorganisms classification and taxonomy; Features and major groups of relevant prokaryotes and eukaryotes; Viruses, viroids and prions; Molecular genetics and metabolism of microorganisms; Nutrition and cultivation of microorganisms, staining, light and electron microscopy tests; Microbial control; Microbiology and waste / water treatment; Applications of microbiology in food production and industry. | 60 | 2 <sup>nd</sup> | 11010          |



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|---------|--|-------------------------------|--|-----|----------------------------------|-------------------------|
| LFN0425 | Forest Pathology   | Luis Eduardo Aranha Camargo   | Forest pathology general principles and basic concepts; Main disease types and control in shade and forest trees; Wood deterioration.  | 60  | 2 <sup>nd</sup>                  | 11020                   |
| LFN0512 | Nematology   | Mario Massayuki Inomoto       | General characteristics; Nematode biology and ecology; Sampling collection for nematological analysis; Nematode group study of agricultural importance; Nematode control methods of agricultural importance.   | 90  | 2 <sup>nd</sup>                  | 11010                   |
| LFN0615 | Supervised Internship in Plant Pathology and Nematology I  | Jorge Alberto Marques Rezende | Plant disease economic importance; Plant pathology and nematology field and laboratory techniques; Plant disease symptom characterization; Disease recognition and identification; Plant pathogen agent isolation; Pathogenicity and transmission tests; Disease quantification; Disease control general principles. | 105 | 1 <sup>st</sup> /2 <sup>nd</sup> | 11070<br>11020<br>11010 |
| LFN0635 | Supervised Internship in Plant Pathology and Nematology II | Jorge Alberto Marques Rezende | The supervisor responsible for the research Project will have a designated trainee student; The student will be responsible for project implementation, relevant experiment execution, data collection, analysis and final report.   | 105 | 1 <sup>st</sup> /2 <sup>nd</sup> | 11070<br>11020<br>11010 |
| LFN1624 | Large Culture Diseases                                     | Jose Otavio Machado Menten    | Diagnosis; Importance and genetic, cultural, chemical, biological, physical and integrated disease control of main crops: cotton, peanut, rice, potato, cocoa, coffee, sugar cane, bean, sun flower, eucalyptus, bean, cassava, corn, rubber, soy bean sorghum and wheat.  | 90  | 1 <sup>st</sup>                  | 11010                   |



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|---------|--|----------------------------|---|----|-----------------|-------|
| LFN1625 | Fruit and Horticultural Plant Diseases | Jose Otavio Machado Menten | Diagnosis; Importance and genetic, cultural, chemical, biological, physical and integrated disease control of main horticultural plants (lettuce, garlic, onion, carrot, crucifera, cucurbitacea and solanacea), fruit plants (avocado, pineapple, banana, citrus, fig, papaya, mango, rosacea and vine), ornamental plants (rose, chrysanthemum, carnation, violet, orchid), and medicinal plants. | 90 | 2 <sup>nd</sup> | 11010 |
|---------|--|----------------------------|---|----|-----------------|-------|