



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
LCF0106	Introduction to Forestry Engineering	Fernando Seixas	Forestry engineering as a profession; Forest ecosystem; Brazilian forest situation; Forest measuring and management; Forest management concept; Forest species selection; Wood multiple uses; Forestry engineering working fields.	75	1 st	11020
LCF0130	Solutions to Forest Problems	Demóstenes Ferreira da Silva Filho Hilton Thadeu Zarate do Couto João Luis Ferreira Batista	A series of cases of forestry problems are presented to the students in order to they develop resolutions. A big emphasis is given to the use of the scientific method applied to the Forestry, to the elaboration and drafting of reports and technical texts and to the reflection of pertinent terms to the professional practice.	60	1 st	11020
LCF0131	Space Information Management in Forest Activities	Sílvio Frosini de Barros Ferraz	Geoprocessing concepts; Cartography; Projection systems; GPS; Data entry; Digital image georeferencing; Digital image processing; Image classification; Geographic Information System; Cartographic database; Forestry database; Relational database; Cartographic database creating, editing and maintaining; Terrain digital modeling; Environmental suitability; Forest planning; Project development.	75	2 nd	11080 11020



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LCF0156	Forest Production Chains	Adriana Maria Nolasco Ivaldo Pontes Jankowsky	Concept of supply chain, as a tool for business management and technology; Basic assumptions of General Systems Theory; Applications of the systemic approach in prospective studies in forest-based industry; Perspectives of the forest based industry in Brazil; Supply chain analysis focused on: efficiency, technological bottlenecks, environmental sustainability, markets and opportunities, institutional sustainability and image, public policy, forums, and trading councils among the supply chain links.	60	2 nd	11020
LCF0224	Dendrology	Mario Tomazello Filho	External morphology aspects of forest, conifer and leafy essence discussion; Identification of the main species cultivated in Brazil.	60	2 nd	11020
LCF0225	Dendrology and Wood Biology	Mario Tomazello Filho	The internal structure of wood of the tree-species – conifers and broadleaves – is discussed; the wood formation by the apical and lateral meristems; The effect of the edaphic-climatic variables on the growth and wood formation and related aspects of the wood quality; Dendrologic aspects to the identification of the main tree-species are also included.	75	1 st	11020



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LCF0270	Environmental Education	Marcos Sorrentino	Environmentalism and Environmental Education (EE) History; Present Public Policies on EE in Brazil; Introduction to the History and EE Context; Preliminary Study on EE political, historical and cultural contexts; Debate on National and State Policies and on the National Program of EE; Participative Environment Management Analysis in Protected Areas; Study on the EE Theoretical and Methodological Fundaments through praxis and social emancipation, critical environment education and sustainability, human dimensions in biodiversity conservation, participative environment management, EE applied to children and its playful aspects; Introduction to EE project elaboration and experience analysis in progress; Analysis of the main EE threads in Brazil and in the world.	60	1 st	11070 11080 11020
LCF0280	Quantitative Methods for Environmental Management	Luiz Carlos Estraviz Rodriguez	The main theme of this course is the use of basic quantitative methods to support decision making in situations involving the use of natural resources. Concepts like exhaustion, degradation, sustainability, planning, optimal levels of use of renewable resources etc. are contextualized. The course focuses on mathematical concepts and introduces statistical, economic, mathematical, financial, and operational research concepts.	60	2 nd	11080
LCF0290	Forest Certification	Edson José Vidal da Silva	Management systems in native forests and plantations, economic, ecological and social forestry; Concept and types of certification (agriculture, forestry and organic certification; Forest certification: patterns and processes; FSC Certification, Certification CERFLOR.	75	2 nd	11020



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LCF0300	Urban Environmental Management	Adriana Maria Nolasco Demóstenes Ferreira da Silva Filho Tarlei Arriel Botrel	The growing urbanization challenges in the world, Latin America and Brazil; Urbanization impacts; Sustainable urban environment systems and their integrated management; Urban environment management instruments.	90	2 nd	11080
LCF0312	Solid Waste Management	Adriana Maria Nolasco	Perspectives and evolutionary analysis of solid waste management in urban and industrial Brazilian areas. The National and State Solid Waste policy and guidelines for the management of urban and industrial solid waste. Methods for the preparation and implementation of urban and industrial solid waste management plans based on principles of Cleaner Production and from the Brazilian Institute of Municipal Administration.	75	2 nd	11080
LCF0324	Tree Physiology	Antonio Natal Gonçalves	Structures and mechanisms of growth and development; Life cycle; Plant growth – seeds and germination, plant propagation, primary growth: buds, leaves and roots; Secondary growth: exchange and phylogeny; Reproductive growth: flowering, fructification and their controls; Water; Photosynthesis and assimilation; Mineral nutrition.	75	1 st	11020
LCF0325	Tree Mineral Nutrition	Antonio Natal Gonçalves	Experimental principles and methods; Macro and micro-nutrients; Essentiality, function and metabolism criteria; Absorption and transport; Growth and development control; Vegetative growth; Reproductive growth; Forest product quality; Edaphic problems; Genetic and ecological aspects.	60	1 st	11020



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LCF0335	Principles and Applications of Forest Products Chemistry I	Francides Gomes da Silva José Otavio Brito	Chemistry of lignocellulosic and non-lignocellulosic components of trees; Obtaining, processing and application of bioproducts and bioenergy derived from arboreal components of forests.	75	1 st	11020
LCF0410	Forest Mensuration	João Luis Ferreira Batista	Basic structure of the mensuration models and forest management; Concept of probability distribution and statistical inference, with applications in discrete and continuous distributions to empirical modeling.	90	1 st	11020
LCF0427	Propagation of Forest Species	Antonio Natal Gonçalves	Introduction; General aspects; Asexual propagation; Sexual propagation; Protection and quarantine; Forest species seedling system and production.	60	2 nd	11020 11010
LCF0445	Principles and Applications of Forest Products Chemistry II	Francides Gomes da Silva Junior	Chemical reactions of wood; Carbohydrates and lignin; Pulp; Quality raw material; Pulp industries; Ethanol timber; Biorefinery.	75	1 st	11020
LCF0491	Forest Ecology	Ciro Abbud Righi	Purpose of ecology and forest ecology, its history and relevance to mankind; The structure of the major terrestrial ecosystems; Description and classification of Brazilian forest ecosystems; The energy flow in ecological systems; Forests and the biogeochemical and water cycles; Limiting factors and adaptation of tree species; Ecology of populations and communities; Phytosociology; Ecosystem development, succession and climax in forests; Notions of landscape ecology; Human impacts on natural environments and consequences on sustainability; Deforestation, forest fires, forest fragmentation.	90	2 nd	11080



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LCF0493	Tropical Forestry	Pedro Henrique Santin Brançalion	Tropical forestry management; Tropical forests; Tropical forestry ecological bases; Forestry systems for natural forest sustainable production; Forest fragmentation and restoration; Agroforest systems; Forest certification; Management planning; Forest legislation and forest concession law.	75	1 st	11020
LCF0500	Fundamentals of Forest Biometrics	Hilton Thadeu Zarate do Couto João Luis Ferreira Batista	Basic structure of the mensuration model and Forest management. Concepts of probabilities distribution and statistical inference, with applications in discrete and continuous distributions in the forestry empirical modeling.	75	2 nd	11070 11020
LCF0510	Forest Inventory	Hilton Thadeu Zarate do Couto	Forest inventory methods by sampling; Randomized, stratified, systematic and conglomerate samplings; Biological population surveying aspects.	90	2 nd	11020
LCF0522	Principles and Applications of Wood Physics	Ivaldo Pontes Jankowsky	Physical property general concepts; Wood main physical properties; Specific mass and basic density; Water and wood relations; Dimensional movement; Wood fluid movement; Conductivity and resistance; Wood drying processes; Wood deterioration; Wood treatment processes.	75	2 nd	11020 11010
LCF0533	Pulp and Paper Technology	Francides Gomes da Silva Junior	Raw materials for pulp and paper production; Pulp production processes; Pulp bleaching; Pulp processing; Paper production; Pulp and paper chemical, physical and mechanical tests.	75	1 st	11020



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LCF0543	Wood Based Panels	Geraldo Bortoletto Junior	Wood based panel characteristics; Raw material and fiberboard manufacturing process; Natural and synthetic adhesive main characteristics; Gluing basic principles; Raw material and manufacturing process of particleboards and plywood; Other wood based panels.	75	2 nd	11020
LCF0575	Forest Crops	José Leonardo de Moraes Gonçalves	Pure and mixed forest formation potentiality with native and introduced species; Wood production objectives and other forest products: economical and ecological importance of species; Most important wood species uses, with cultivation possibilities; Edaphic and climatic requirements, growth rate; Basic ecophysiological models; Seed special features and seedling production, planting, fertilization, spacing, cultural practices, management, exploration and regeneration techniques for each potential alternative species.	75	1 st	11020
LCF0577	Biodiversity Management	Weber Antonio Neves do Amaral	Biodiversity concepts and definitions; Sustainable use and biodiversity management; Public policies and supporting mechanisms on biodiversity management; Designing and writing business plans for biodiversity deals; Case studies and presentations of business plans.	60	2 nd	11070 11080 11020 11010
LCF0586	Management of Forest Resources	Luiz Carlos Estraviz Rodriguez	Introduction to Administration; Important biometric and economic concepts review; Forest regulation; Current forest planning techniques; Models with one or multiple goals; Data collecting, analysis and preparation of management plans with multiple forest resources and products.	75	2 nd	11050



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LCF0590	Wildlife Management and Conservation	Katia Maria Paschoaletto Micchi de Barros Ferraz	Biodiversity conservation: from theory to practice; Human-wildlife interactions; Field techniques for population survey and monitoring; Wildlife management; Application of concepts and practices for wildlife conservation and management in natural and planted forests.	90	1 st	11020 11070 11080
LCF0615	Supervised Internship on Forestry I	José Leonardo de Moraes Gonçalves	Activities related to the following areas: Forestry, Applied Ecology and Forest Product Technology, under the responsibility of the professors of the Forestry Department inside or outside the University Campus or in public or private institutions under also the responsibility of a supervisor.	105	1 st /2 nd	11070 11080 11020 11010
LCF0620	Forest Soils	José Leonardo de Moraes Gonçalves	History; Soil formation factors and processes; Characteristics of the main soils used for forest purposes; Forestry implications; Nutrient cycling effects on fertility and soil physical characteristics; Climate and soil characteristics associated to the main Brazilian forest sites; Soil fertility evaluation, corrective and fertilizer recommendation; Production capacity mapping of forest sites; Tree root system.	90	2 nd	11020
LCF0621	Establishment and Regeneration of Forest Plantations	José Leonardo de Moraes Gonçalves	Economic and technical aspects relevant to the forest plantations; Soil conservation and preparation techniques; Fertilizers and fertilizer prescriptions; Layout and spacing of planting; Regeneration of forest stands by conducting sprout (coppice method); Forestry practices; Forestry precision.	90	1 st	11020



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LCF0622	Education Topics Directed to Environmental Issues	Marcos Sorrentino	The educational issues: education, teaching, research, extension, diffusion, knowledge, praxis, school, curriculum, learning, pedagogical chains, didactics, motivation, creativity, initiative, values, ideologies, assimilation, innovation, objectives, philosophy, problem solving teaching, Professors, educators, agronomist and forester educational development; The environmental issues: ecology, environment, diversity, ecosystems, ecological movement, eco-development; UNCED 92, "Our Common Future"; Institutions related to environmental issues; Environmental education: philosophies, objectives, methodology, clientele, contents, techniques, history, experiences; nature tracks interpretation.	90	2 nd	11020 11010
LCF0623	Mechanical Properties and Wood Structures	Jose Nivaldo Garcia	Applied calculus to wood engineering; Statistics and material resistance fundamentals; Mechanical properties determination, interrelations and their correlations with wood physical properties; Introduction to structural calculation to constructions in general.	90	2 nd	11020
LCF0635	Supervised Internship on Forestry II	José Leonardo de Moraes Gonçalves	The students will have the opportunity to enhance their hands-on experience related to the following areas: Forestry, Applied Ecology and Forest Product Technology, always under the responsibility of a professor or supervisor inside or outside the University Campus or in public or private institutions.	105	1 st /2 nd	11070 11080 11020 11010



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LCF0636	Urban Forestry	Demóstenes Ferreira da Silva Filho	City and urban forestry history; Vegetation uses, benefits and importance in urban environments; Landscaping principles; Urban forestry planning; Urban forest ecosystems management; Municipal public policies (environmental policy, administrative structure, urban planning, etc.); Community programs for urban forest ecosystem establishment, recuperation, valuing and maintenance.	90	1 st	11080 11020
LCF0637	Tropical Forest Management	Edson José Vidal da Silva	Tropical forest management systems in Brazilian biomes as the Amazon and Atlantic forest; Tropical forest management plans; Current tropical forest management and its implications for the forest future; Solutions for a more ecological, social, environmental and sustainable management.	75	2 nd	11020
LCF0641	Wood Drying and Preservation	Ivaldo Pontes Jankowsky	Drying importance and humidity influence in wood physical-mechanical properties and characteristics; Wood-water relations and methods for humidity determination; Physical principles of drying process; Methods for natural and artificial drying; Drying defects and quality control; Wood preservation importance and field of action; Wood deterioration physical, chemical and biological agents; Wood preservatives and evaluation methods; Wood treatment processes; Wood and treatment efficiency process characteristics; Quality control.	90	1 st	11020 11010



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LCF0644	Management of Renewable Natural Resources	Daniela Custódio Talora	The major biomes of tropical forests; The Brazilian system of conservation areas, nature conservation and environmental laws; Importance of maintaining the biodiversity of agroecosystems and different forms of management; Agroforestry and organic agriculture; Fauna Management; Humans impacts on the environment, climate change and ozone layer; The management of water resources and watersheds; Energy sources and their ecological consequences.	60	1 st	11070
LCF0650	Forest Product Industrialization I	Jose Nivaldo Garcia	Sawing and secondary processing strategies for native and planted wood; Key equipments; Compatibility between equipments and wood types; Growth stress and strains in trees and subsequent defects to sawn wood; Sawn wood and log quality indicators for guiding forest management and improvement programs; Calculation and manufacturing of composite cross section, glulam, LVL, CLT, OSL, T, I, H and Box joist.	60	2 nd	11020
LCF0662	Programs of Environmental Education	Marcos Sorrentino	Programs of environmental education analysis; Programs of environmental education identification and elaboration steps; Text readings, conferences and debates on different proposals for environmental education; Intervention research and environmental education; Programs of environmental education proposal for an institution.	90	1 st	11080 11020 11010
LCF0665	Advanced Topics on Wood Mechanical Processing	Jose Nivaldo Garcia	Robotics in wood industries; CNC and traditional machines, General pre-manufacturing; Wood industry optimization through linear programming; AutoCad; Wood engineered products and final product quality control.	90	2 nd	11020



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LCF0670	Forest Product Processing II	Adriana Maria Nolasco Geraldo Bortoletto Junior	Industry panel perspectives and trends; Wood adhesives; Veneer processing methods; Plywood, particleboards and fiberboards processing methods; Furniture industry overview; Furniture history; Furniture industry product development processes; Machines, tools and processes; Reading instructions and furniture design basic representation.	90	1 st	11020
LCF0676	Forest Improvement I	Weber Antonio Neves do Amaral	The course is structured into four main blocks of themes: 1. distribution patterns of genetic diversity in natural populations - using concepts of evolution and population genetics; 2. methods and tools for forest improvement - using concepts of quantitative genetics; 3. use of genetic diversity in conservation and forest improvement, using concepts related to sustainable use of forest genetic resources and 4. case studies for tree species.	60	2 nd	11020
LCF0678	Forest Watershed Management	Sílvia Frosini de Barros Ferraz	Hydrological Cycle; Experimental watersheds; Catchment water balance; Forest water use; Water yield control in forested watersheds; Forest and water quality; Watershed integrated management.	75	1 st	11020
LCF0679	Forest Administration, Public Policies and Legislation	Marcos Sorrentino	Brazilian forest legislation and environmental law; Brazilian forest public policies and forest restoration; Natural protected areas and legal reserves.	75	2 nd	11020



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LCF0681	Forest Seed Biology and Production	Paulo Yoshio Kageyama	Forest species reproduction biology; Factors affecting forest seed production; Factors affecting forest species seed germination; Forest species seed production methods; Forest seed technology.	75	2 nd	11020
LCF0683	Harvesting and Transport of Wood	Fernando Seixas	Objectives and importance of forest mechanization; Description of systems in forest harvesting activities: cutting, bucking, debranching, extraction, loading and unloading, wood transportation and debarking; Machinery and forest implements analysis, and the effects of timber harvesting on the environment; Aspects of ergonomics in forestry activities; Forest roads.	60	2 nd	11020
LCF0685	Economics of Forest Resources	Luiz Carlos Estraviz Rodriguez	Introduction to Economics: main concepts used in the analysis of the efficient use of productive resources; Study of supply and demand curves; Factors affecting demand and supply; Financial Math and Analysis of Forestry Projects: Financial mathematics, key concepts, main evaluation criteria and applications.	75	1 st	11050
LCF0686	Forest Improvement II	Weber Antonio Neves do Amaral	The theory of forest genetic improvement will be discussed through advanced topics in determining the genetic parameters in the selection processes: discussion of special topics in improvement as hybridization, mass propagation, controlled pollination and improvement techniques for tropical characteristics.	60	1 st	11020



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LCF0689	Introduction to Ergonomics and Workplace Safety	Fernando Seixas	Ergonomic basic concepts; Workplace study; Workplace physiology; Anthropometry principles; Human nutrition; Noise; Vibrations; Climate effects; Workplace safety.	60	1 st	11020 11010
LCF0691	Conservation and Protected Areas Management	Teresa Cristina Magro	National parks history and activities related to the protection of nature in Brazil and world; The protected area systems in Brazil and IBAMA; Social and economic issues in outdoor recreation; Natural areas planning and management; Protected areas interpretation; Environmental impacts in protected areas; Tourism management in protected natural areas.	90	1 st	11020
LCF0693	Agroforestry Systems	Ciro Abbud Righi Marcos Silveira Bernardes	Definitions and concepts involved in the study of agro-forestry systems and summary of the basic principles of ecology and socioeconomics involved in the evaluation of agro-forestry systems and their functions; Presentation of key concepts for the agro-forestry systems management, discussing their research and rural extension peculiarities and principles of Ethnoecology and participatory processes.	60	2 nd	11020 11010
LCF0694	Auditorship and Environmental Certification	Katia Maria Paschoaletto Micchi de Barros Ferraz	Studies about FSC certification system on forest management and ISO standards on environmental management (Series 14000).	60	1 st	11080 11020



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LCF0699	Forest Residues Management	Adriana Maria Nolasco	Environment quality control concepts and general aspects; Forest residues: definition and classification; Main environmental problems related to forest residues; Brazilian and international environmental legislation on forest residue management; Forest residue management methods (minimization, recycling, use, treatment and disposal); Environment management models on forest residues: ISO 14000 and Agenda 21 model for adequate residue environmental management; Product life cycle analysis.	90	1 st	11020
LCF0710	Protected Areas Management	Teresa Cristina Magro	Biocentric and anthropocentric perspectives in protected areas management; Legislation and natural areas management; Present situation of the protected areas in Brazil; Principles and guidelines for protected areas participatory management ; Human values and Public consultation for protected areas creation; Consultation board experiences for protected areas; Land regulation; Partnership and concession management; Cultural values in conservation; Protected areas financing.	60	1 st	11080
LCF0720	Forest Nursery	Luciana Duque Silva	Infrastructure and protection in forest nurseries; Planning and methods of seedling production; Current legislation.	75	1 st	11020



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LCF1581	Forest Resources in Agricultural Properties	Pedro Henrique Santin Brançalion	Forest ecosystem concepts, functioning and characterization; Forest ecology and sustainable forest development basic concepts; The forest role in biodiversity conservation, hydric resources and soil productivity; Forest legislation: natural protected areas and legal reserve; Forest fragment conservation; Small forest communities formation and management; Wood use in agricultural properties.	90	1 st	11010
LCF1680	Regeneration and Forest Management	Luciana Duque Silva	Forest regeneration, use and management; Forest multiple uses; Products and benefits diversification; Wood sustainable production for consumption markets; Management plans for short and long rotation wood production to noble uses and other forest benefits; Firefighting techniques.	90	2 nd	11020
LCF1697	Environmental Impact Assessment	Katia Maria Paschoaletto Micchi de Barros Ferraz	Environment impact concepts; The structure of the environmental impact studies in Brazil; Environment impacts characterization in physical, biotic and social environments; environmental impact evaluation; Mitigation and compensation actions; Elaboration and analysis of environmental impact studies; Politics and legislation of environmental impact studies in Brazil; Public Audiences; Study cases of environmental impact studies in Brazil.	90	1 st	11070 11080 11020 11010