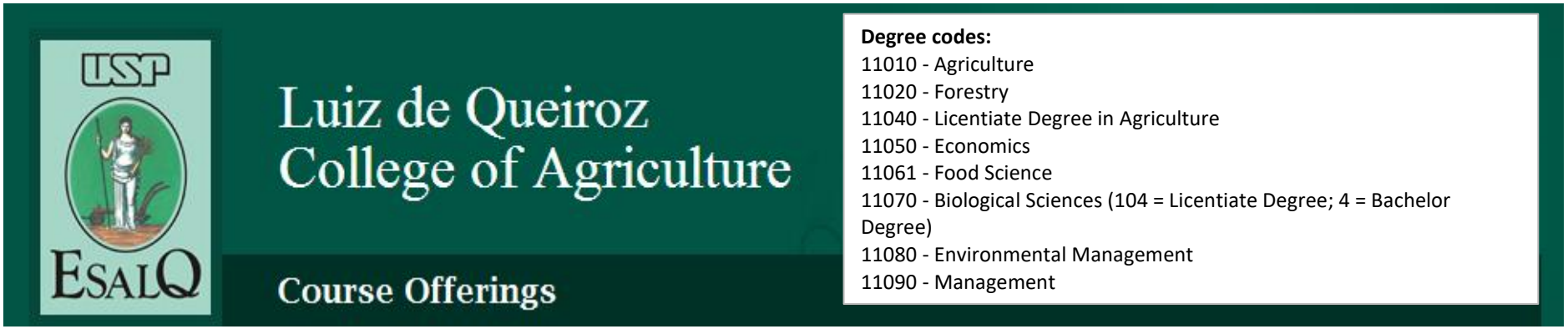
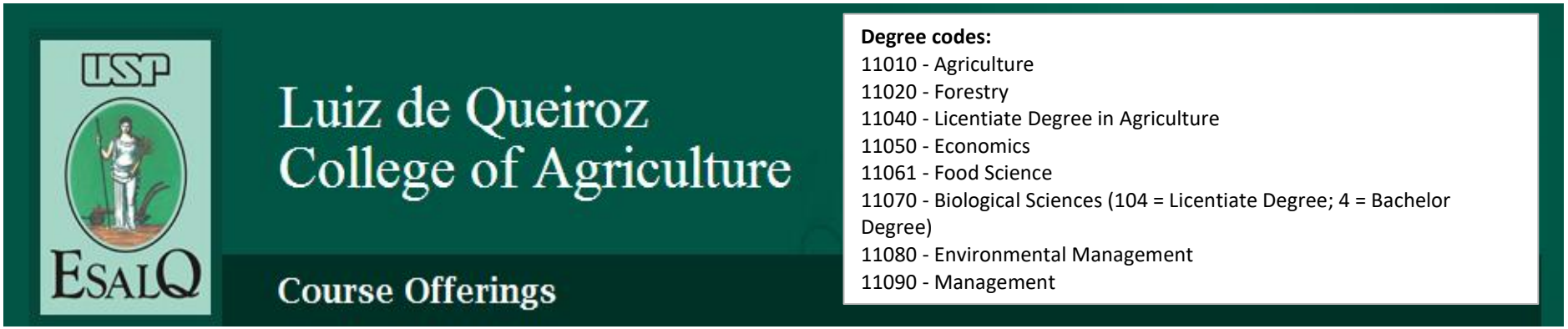
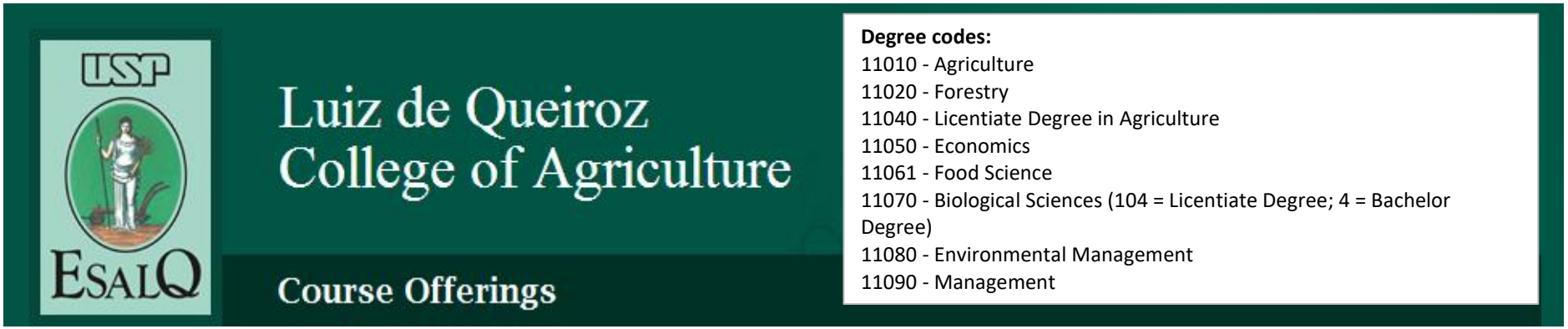


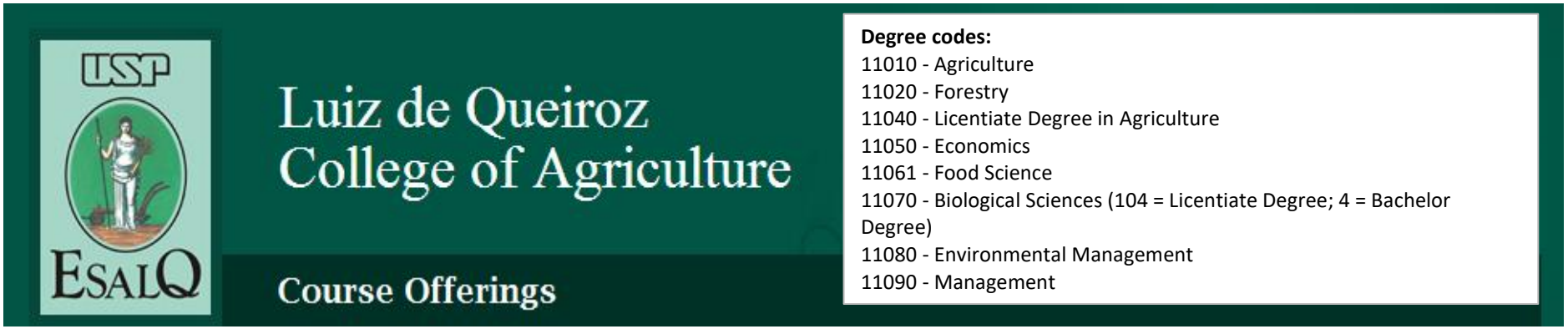
ID	Course Name	Professor	Course Content Summary	Total Course Hours	Semester	Degree code
0110113	Introduction to Agriculture	Jose Otavio Machado Menten Mateus Mondin	The university, from universal to regional standpoints; Agronomy, agriculture, agribusiness and sustainable development; The agronomist profile, responsibilities, rights and areas of expertise; Professional profile evolution; Professional activities: research, teaching, production, extension and management.	30	1st	11010



0110350	Cropping Systems	Carlos Armênio Khatounian Carlos Guilherme Silveira Pedreira Claudio Maluf Haddad Dante Pazzanese Duarte Lanna	Agriculture origin and history; Green revolution; Sustainability basis; Ecosystem X agroecosystem; "k" and "r" strategists; Biogeochemical cycles; Energetic balance; The no-till farming system; Green fertilization; Farming and stockbreeding integration; Process and quality management; Natural forests: Main forest biome studies; Forests and environment; Forests and water cycle; CO2 fixation by forests; Deforestation consequences; Natural forest and forest settlement structures; Forest profile components; Light in forests and forest succession; Forest fragment structures; Forest Fragment protection for conservation and biodiversity; Planted forests: Forest species domestication; Main species characteristics used for reforestation; Planted forest ecology; Forest implantation for ecological and economical purposes: pure and blended settlements; Forest plantation and sustainability; Enriching plantations; Forest legislation elements; Animal origin and domestication: Domesticated animals; Origin and natural habitat sites; Domestication theories and main species domestication; Genetic, physiologic, morphologic and behavioral alterations imposed by domestication; Animal breeding improvement: Form and function adaptation developed by domestication; Breeding: formation, ability and importance; Crossing selection and systems; Lining and hybrids; Animal origin products: Economic and social importance of animal production; Feeding products; Industrialized products; Special products; Subproductts and their recycling; Animal nutrition and feeding: Nutrition and nutrients; Nutrient digestion and metabolism in ruminants and no-ruminants; Food chemical and nutritional characteristics; Rations and nutritional needs; Animal feeding; Insect damage on environment notions; Beneficial insects; Insect biological control method and its implications.	60	1st	11070 11080



0110360	Quality of Life and Health	Marina Vieira da Silva	Life quality and health; Epidemiology; Health-disease process determination; Disease social history; Disease natural history; Epidemiological methods; Indexes and ratios used in health statistics; Casual hypothesis design; Techniques and research drawing for data surveys; Statistical indexes and ratios; Factors conditioning the epidemiological transition; Human research ethics.	30	1st	11070
0110501	Professional Internship in Agriculture		The students taking the Professional Internship in Agriculture should plan, together with their advisor, a program considering one of the following options: a) Agricultural, forest or agroindustrial production unit. The program includes participation in activities related to the unit production, and problem identification, solution proposal and application; b) Public or private organizations for the research, education and rural extension. The program includes the student participation in new or ongoing specific projects; c) Public and private research institutions. This program includes project developments using natural or manufactured resources for the food, fiber, energy and shelter building material production.	660	1st/2nd	11010



0110502	Professional Internship in Forestry Engineering		The students taking the Professional Internship in Forestry should plan, together with their advisor, a program considering one of the following options: a) Agricultural, forest or agroindustrial production and services unit. The program includes participation in activities related to the unit production, and problem identification, solution proposal and application; b) Public or private organizations for the research, education and rural extension. The program includes the student participation in new or ongoing specific projects; c) Public and private research institutions. This program includes project developments using natural or manufactured resources for the food, fiber, energy and shelter building material production.	660	1st/2nd	11020
0110603	Professional Internship in Economics		The students taking the Professional Internship Program in Economics should plan, together with their advisor, a program considering one of the following options: a) Agricultural, forest or agroindustrial production and services unit. The program includes participation in activities related to the company economics, management and finances, and problem identification, solution proposal and application; b) Public and private research institutions. The program includes participation in new and ongoing projects related to production economics, management and finances, processing and consumption, as well as economic, administrative and financial issues on natural and environmental resources usage and preservation.	660	1st/2nd	11050

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

0110605	Professional Internship in Biological Sciences		This internship will enable the students to develop their theoretical and practical knowledge in one or more of the following areas: Agrobiology, Biotechnology and Wildlife Management. The following activities can be developed in private and public institutions, under a professor and supervisor's orientation: educational activities; environmental management project planning and execution; biodiversity conservation; participation in multidisciplinary groups for the research and use of renewable natural resources; technical task management and execution in biology; strategic actions and brainstorming aiming at enlarging and improving this area of expertise.	660	1st/2nd	11070
0110606	Professional Internship in Food Science		The experimental internship program in Food Science consists in programs for individual students or groups, developed in agreement with the advisor/supervisor in case the internship is performed outside ESALQ. The program content is designed to fit into one of the following fields: 1. New product development; 2. Food quality assurance program; 3. Preservation technology and/or agribusiness product processing; 4. Agribusiness project management; 5. Advisory or consulting for food and nutrition; 6. Food control and supervision; 7. Consumer and food processing education; 8. Food and nutrition security.	660	2nd	11061

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

0110612	No Tillage System	Antonio Luiz Fancelli José Laercio Favarin	Natural and agricultural ecosystems; Standard production system; brief overview on the recent history of the no-tillage system and deployment requirements; Effects of soil tillage on the environment; Agricultural machinery and implements for the no-tillage system; Crop rotation and autumn-winter cover crops; Pests, diseases and weeds in the no-tillage system; Physical, chemical and biological properties of soil; Estimation of water saving and productivity; Concepts related to formation and accumulation of haystacks; Crop and livestock integration and importance for the no-tillage system.	60	2nd	11010
0110660	Experimental Internship in Agriculture		This internship will enable students to develop their theoretical and practical knowledge related to the following fields: Production, Processing, Management, Research and Consumption Economics. The activities can be developed in public and private entities with the advisory of a professor and supervisor.	270	1st/2nd	11010
0110670	Experimental Internship in Forestry Engineering		This internship will enable students to develop their theoretical and practical knowledge related to the following fields: Forestry, Applied Ecology and Forest-based product technology. The activities can be developed in public and private entities with the advisory of a professor and supervisor.	270	1st/2nd	11020
0110680	Experimental Internship in Economics		This internship will enable students to develop their theoretical and practical knowledge related to the following fields: Production, Processing, Management, Research and Consumption Economics. The activities can be developed in public and private entities with the advisory of a professor and supervisor.	270	1st/2nd	11050

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

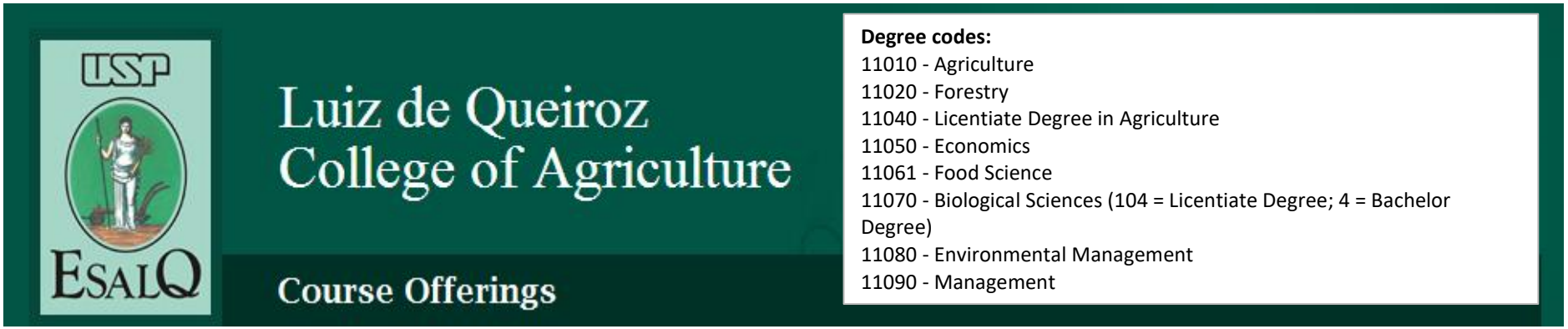
0110688	Plant Protection Produts	Casimiro Dias Gadanha Junior Celso Omoto Jose Otavio Machado Menten Ricardo Victoria Filho	Importance of agricultural pest management and alternative management practices; Importance, evolution, production and registration of plant protection products; Legislation on plant protection products, with emphasis on civil and criminal liability; Formulations and agronomic efficiency of plant protection products; Registration of plant protection products: agronomic, ecotoxicological (environmental impacts), toxicological and residue assessments; Herbicides; Insecticides; Acaricides; Fungicides; Nematicides; Application technology; Correct and safe use of plant protection products; Agricultural income.	90	2nd	11020 11010
0110690	Experimental Internship in Environmental Management	Demóstenes Ferreira da Silva Filho	The student will have the opportunity to improve his theoretical and practical knowledge related to the areas: Administration, Environmental Management, Environmental Policy and Legislation, Environmental audit and certification, environmental education, communication and sociology; The activities can be developed in public and private entities with the advising of a professor and supervisor.	270	1st/2nd	11080

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

0110700	Experimental Internship in Biological Sciences		This internship will enable students to develop their theoretical and practical knowledge in one or more of the following areas: Agrobiology, Biotechnology and Wildlife Management. The following activities can be developed in private and public institutions, under a professor and supervisor's orientation: educational activities; environmental management project planning and execution; biodiversity conservation; participation in multidisciplinary groups for the research and use of renewable natural resources; technical task management and execution in biology; strategic actions and brainstorming aiming at enlarging and improving this area of expertise.	270	1st/2nd	11070
0110710	Experimental Internship in Food Science		The program content is developed, in agreement with the advisor/supervisor, to fit into one of the following fields: 1. New product development; 2. Food quality assurance program; 3. Preservation technology and/or agribusiness product processing; 4. Agribusiness project management; 5. Advisory or consulting for food and nutrition; 6. Food control and supervision; 7. Consumer and food processing education; 8. Food and nutrition security.	270	1st/2nd	11061
0110444	Final Report in Environment Management I	Demóstenes Ferreira da Silva Filho	The program content changes according to the area chosen by the student, for their professional training.	165	1st/2nd	11080



0111000	Final Report in Agriculture	José Otávio Machado Menten Roberto Arruda de Souza Lima	The final report must fall into one of the following categories: a final report presenting a theoretical study on a technical or scientific subject related to agriculture or to the Brazilian agribusiness context; a technical report focusing the definition and problem solving of an agribusiness case effectively developed inside or outside the university; a scientific report developed under a undergraduate research internship recognized by the University of São Paulo.	45	1st/2nd	11010