

Faculty of Agronomy

Specialization Courses

Specialization in Agribusiness and Food
Specialization in Bromatology and Food Technology
Specialization in Grain Cultivation
Specialization in Industrial Cultivation
Specialization in Rural Development
Specialization in Teaching of Agronomy and Biology
Specialization in Soil Fertility and Fertilization
Specialization in Development and Evaluation of Agrarian and Agro-industrial Projects
Specialization in Environmental Managing in Agro food Systems
Specialization in Hygiene and Safety in Agrarian jobs
Specialization in Handling of Grazing Systems
Specialization in Milk production of Argentine Systems
Specialization in Direct Harvesting
Specialization in Management of the Value Chain of Bovine Meat

Master Degrees

Master in Aquaculture
Master in Intensive Agriculture for Arid and Semi-arid Areas
Master in Agribusiness and Food
Master in Biometry and Improvement
Master in Biotechnology
Master in Bromatology and Technology of Food Industrialization
Master in Soil Sciences
Master in Ecology and Handling of Forests
Master in Agrarian Economy
Master in Agronomy and Biology Teaching
Master in Agricultural Meteorology
Master in Processes of Regional Integration with emphasis on MERCOSUR
Master in Production of Vegetables
Master in Natural Resources
Master in Public Health
Master in Systems of Agrarian Production for Subsistence Areas.

Doctorates

Doctorate of UBA

Specialization in Agribusiness and Food

General Information

Director: Fernando Villela (coordinator)
Department: Faculty of Agronomy
Degree: Specialist in Agribusiness and Food
Approximate duration: 18 months
Enrolment periods: consult at Graduates School.

Contact Information

Address: 4453 San Martín Avenue (C1417DSE)
Telephone: (5411) 4524-8041/2
e-mail: agroneg@mail.agro.uba.ar;

Course Description Objectives

To create an area for research, teaching and the transference to the environment which tends to meet the social and economic demands in Agribusiness and Food areas, through the interrelation of scientific and technological institutions –in the private sector and the corresponding public organisms- in order to achieve a competitive management of agro food chains.

Syllabus

Group of basic subjects: Microeconomics. Macroeconomics. Economy and management of agro industrial systems.

Group of analytical subjects: Strategic Direction. Marketing and Communication. Development and evaluation of projects and business risks. Capital Markets and Financial Engineering.

Group of Application subjects: Commodities Business. Specialization Businesses.

Specialization in Grain Cultivation

General Information

Director: Daniel Hugo Miralles (coordinator)

Department: Faculty of Agronomy, Graduates School Alberto Soriano

Degree: Specialist Grain Harvest

Approximate Duration: 1 year

Enrolment Period: consult at Graduates School

Contact Information

Address: 4453 San martin Avenue (C1417DSE)

Telephone: (5411) 4524-8004

e-mail: anamador@agro.uba.ar

Course description

Objectives

1. To understand the processes involved in the obtention and use of resources, the generation of quality and output, and the processes of harvest, storage and industrial destination of the products of the main grain harvests.
2. To strengthen students' skills for the diagnosis and solution of problems in the production unit, with the pastures and the agrarian year as units of spatial and temporal reference, with emphasis in solid theoretical, imaginative and environmentally ethic groundings.
3. To promote the ability to identify and order hierarchically the different opportunities of economically risky investment and evaluate the best alternative for placing product obtained in agrarian markets
4. To consolidate students' skills for the systematic use of sources of information, their evaluation and later exploitation.
5. To strengthen students' skills in written and oral communication, for the direct exposition of ideas in discussions or transference of knowledge as well as for teamwork.

Specialization in Industrial Cultivation

General information

Director: Damián Ravetta – Daniel Sorlino (Coordinators)

Department: Graduates School "Alberto Soriano", Faculty of Agronomy

Degree: Specialist in Industrial Cultivation

Approximate duration: 2 years

Period of Enrolment: consult at Graduates School "Alberto Soriano"

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8041/2

e-mail: dsorlino@agro.uba.ar

Course Description

Objectives

Graduates will be qualified to analyse the industry problematic and requirements and propose methodologies for the development of alternatives to primary production that contribute to meet such requirements.

The specific objectives of this course of studies involve:

That students get training to be able to diagnose, analyse and propose solutions to problems concerning the production of raw material that comes from industrial cultivation taking into consideration the sustainable use of resources.

That students develop skills to evaluate and rank processing and valuation techniques of raw material coming from industrial cultivation

That students develop analytic skills oriented to the economic valuation methodologies of production of raw material coming from industrial cultivation, identifying and ranking different possibilities of investment.

Syllabus

Module 1: Presentation. Work Methodology. Paradigms. Attitude of Specialists in Industrial Cultivation. Writing and communication in Agrarian Sciences. Gathering and interpretation of data.

Module 2: Laboratory methods for the extraction and characterization of vegetal products. Instrumental Methodology for the measurement of environmental and eco physiological variables of cultivation systems. Criteria of adaptation for the development of industrial cultivation in marginal areas. Eco physiology of industrial cultivation. New cultivations for arid areas. New sources of vegetal oil for industrial use. Management decisions: structure and protection of cultivations. Vegetal fibres. New applications of traditional cultivations. Aromatic cultivations. Medical plants. Secondary Metabolite with industrial application: rubber and resin. Fibres and polymers of vegetal origin. Oils and oleaginous derivates. Process of extraction of natural products. Investment evaluations.

Module 3: Final paper. Methodology used and material consulted. (Presentation). Final elaboration of the Final Integrative Paper. Presentation of the written final report. Seminal for the exposition of the Final Integrative Paper.

Specialization in Rural Development

General information

Director: Roberto Benencia, Ana Bocchichio

Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Degree: Specialist in Rural Development

Approximate Duration: 2 years

Enrolment periods: consult at Graduates School

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8004

e-mail: benencia@agro.uba.ar

Course Description

Objectives

The present broadest conception of rural development involves agricultural development, environmental preservation, development of marginal rural areas through extra-agrarian income (rural tourism, production of manufactures), integral education of rural areas, etc; in the global development of rural societies and their context. The aim of this specialization, taking the aforementioned conception into consideration is:

1. To develop and activate the role of professionals on agrarian sciences as facilitators of the changes imposed in a globalised context
2. To contribute to the optimization of processes inherent to the intervention in rural development and extension
3. To consolidate students' skills in the systematic use, evaluation and exploitation of sources of information
4. To strengthen the students' skills in written and oral communication, in discussions and direct transferences.

Syllabus

Module 1: Problem analysis and solution. Efficient presentations in agrarian sciences. Fieldwork I. Presentation of case-problem I.

Module 2: Territorial organization and regional economies. Process of social intervention. Socio economic diagnosis. Technological productive diagnosis. Participative planning. Formulation of projects. Fieldwork II. Presentation of case-problem II. Economic follow up and evaluation. Social follow up and evaluation. Complementary cycle.

Module 3: Analysis directed by tutor (Final Integrative Paper). Presentation of case-problem II.

Specialization in Teaching of Agronomy and Biology

General Information

Director: Adela Fraschina, Cristina Plencovich, Alejandro Costantini

Department: Faculty of Agronomy

Degree: Specialist in Teaching of Agronomy and Biology

Approximate duration: 2 years

Enrolment period: consult at faculty

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8041

Email: fraschin@agro.uba.ar

Course description

Objectives

To train teachers of Agronomy and Biology that contribute to the training of proficient human resources in the different agrarian schools and that generate insertion and participation programs in the regional economies. Likewise, the course aims at promoting a better integration of these agrarian schools to the Information society through networks that allow circulation of teaching, technological and research knowledge.

Main objectives: to develop pedagogical, didactic and technological skills for teaching in agrarian. To generate research projects concerning agrarian teaching that permit to establish links between schools and the local, regional and national problematic.

Syllabus

A. Pedagogic-didactic core: A.1. pedagogy for Agrarian teaching. A.2. Didactics in agrarian teaching. A.3. Learning psychology

B. Technological core: B.1. Transversal cores. B.1.1. Introduction to productive systems. B.1.2. Introduction to the study of agro industrial complexes.
B.2. Specific technical cores. B.2.1. Natural resources. B.2.2. Vegetal production. B.2.3. Animal production. B.2.4. Agro industrial production. B.2.5. Environment
C. Epistemological core: Epistemology of agrarian knowledge
D. Sociological core: D.1. Organizational sociology. D.2. Educational sociology
E. research core: E.1. Research methodology
F. Teaching and technological practice: F.1. Internship in an agrarian school (other than where students study). F.2. Internship in an agrarian and/or agro industrial establishment.

Specialization in Soil fertility and Fertilization

General information

Director: Flavio Gutierrez Boem, Mónica Rodriguez.
Department: Faculty of Agronomy, Graduates School "Alberto Soriano"
Degree: Specialist in Soil Fertility and Fertilization
Approximate duration: 1 year
Enrolment period: consult at Graduates School

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)
Telephone: (5411) 4524-8041
e-mail: lavado @ ifeva.edu.ar

Course Description

Objectives:

1. To extend the knowledge in the handling of soil fertility and the use of fertilizers.
2. To understand the processes involved in the deterioration of soil fertility, in the efficiency of the use of fertilizers and in the environmental impact of the use of fertilizers
3. To train students in the diagnosis of soil fertility and in the choice of alternatives for sustainable and economically viable handlings.
4. To get acquainted with the specific formats of written and oral communication connected to soil fertility and the use of fertilizers.
5. To develop skills for the exposition of ideas in written and oral ways.

Syllabus

Module 1: Methodologies for approaching and systematizing knowledge. Processing of information and elaboration of technical presentations. Commercial presentation of agrarian projects.
Module 2: Soil fertility and use of fertilizers. Soil analysis and diagnosis of fertility. Fertilizers and fertilization technologies. Physical processes of soil degradation. Fertility of soils under different handling systems. Economic analysis of investment and production alternatives.
Module 3: Seminar for Final Paper.

Specialization in Development and Evaluation of Agrarian and Ago-industrial Projects

General Information

Director: Carmen Vicien (coordinator)
Department: Faculty of Agronomy, Graduates School "Alberto Soriano"
Degree: Specialist in Development and Evaluation of Agrarian and Ago-industrial Projects
Approximate duration: 1 year
Enrolment periods: consult at Graduates School

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8041

e-mail: cvicien@infovia.com.ar

1.5 Denominación del título que otorga:

Course Description**Objectives:**

To train professionals of diverse disciplines that will be able to perform adequately in the processes of identification, evaluation and management of public and/or private projects.

To train students in the handling of tools for the identification, formulation, evaluation and interpretation of investment projects.

Syllabus

Module 1: Strategic Planning. Negotiation Strategies and Techniques. Preparation and publication of scientific papers.

Module 2: This module is made up of four components:

1. Characteristics of the agro industrial sector: Economy of production and agro industrial complexes.
2. Formulation and evaluation of investment projects: Identification of Projects; Projects Life-cycle; Preparation of Projects, Evaluation of Projects; Planning and Control of Projects.
3. Specific aspects in the formulation and evaluation of investment projects: Social follow up and evaluation; Methods of Environmental Valuation; Modelling of Agrarian Markets.
4. Projects of Special Cases: Public Projects; Company Projects; Research and Development Projects.

Module 3: Preparation and evaluation of a project.

Specialization in Environmental Managing in Agro food Systems**General Information**

Director: Silvia Ratto, Lidia Giuffre (coordinators)

Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Degree: Specialist in Environmental Managing in Agro food Systems

Approximate duration: 2 years

Enrolment period: consult at Graduates School.

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8041

e-mail: sratto@agro.uba.ar

Course description**Objectives:**

The main objective of this course of studies is to deal with the analysis, solution of problems and prediction of the impact of future activities in agro food productive systems, both natural and man-made, through the application of Environmental Management.

Syllabus

Module 1: Various activities

Module 2: Pollution and soil quality. Agro environmental legislation. Society and Environment.

Water quality in agro systems. Ecology. Systems of Environmental Management. Environmental Chemistry. Management of total quality and agro food regulations. Allopath: impact in agro ecosystems. Pesticide eco toxicology. Organic Agriculture. Conceptual basis and evolution in the environmental management in basins. Animal production and environment.

Module 3: Elaboration and presentation of a Final Integrative Paper.

Specialization in Hygiene and Safety in Agrarian jobs

General Information

Director: Ana Amador (coordinator)

Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Degree: Specialist in Hygiene and Safety in Agrarian jobs

Approximate Duration: 1 year

Enrolment period: consult at Graduates School

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8041

e-mail: anamador@agro.uba.ar

Course Description

Objectives

To provide training that meets the necessary requirements for the efficient professional performance in hygiene, safety and prevention of risks in working areas of agricultural companies.

To train students to:

1. Know the structure and understand the behaviour of companies from the agrarian sector as well as the social dynamics of its members and organizations because of the direct relation in which these are with the working conditions and environment.
2. Be aware of the characteristics and risks emerging from the agrarian jobs and the appropriate actions to prevent them.
3. Be acquainted with the legal regulations that control agricultural issues concerning risk, hygiene and safety, for its correct implementation.
4. Elaborate diagnosis; develop a correct form of written and oral communication to address rural workers and producers; plan and formulate programmes for improving the working conditions taking into consideration both the hard and organizational technologies.
5. Intervene with professional skills in the improvement of the working environment and conditions.
6. Work with elements that permit the strengthening of agricultural competitive development, according to the demands of a globalized world, its markets and legislation.

Syllabus

Module I: Study of cases and solution of problems. Resolution of conflicts and labour negotiation. Analysis and investigation of accidents and their causes. Training of trainers in risk prevention.

Module II: Agricultural companies and working conditions. Sociology of rural work. Environmental impact. Health in agricultural work. Labour toxicology. Ergonomics and psycho sociology. Labour hygiene and safety. Prevention in differentiated sectors. Legal area of prevention in agriculture. Prevention planning, training and management. Seminars on hygiene and safety in specific activities.

Sub-module of Basic Agricultural Training (for those who do not have the basic training in agronomy): Introduction to productive systems and agrarian mechanization. Crop production. Animal production. Forest production.

Module III: Final paper

Specialization in the Handling of Grazing Systems

General Information

Director: Martin Aguiar (coordinator)

Degree: Specialist in the Handling of Grazing Systems

Approximate duration: 2 years

Enrolment period: consult at Graduates School.

Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Contact Information

Address: 4453 San Martin Av. (1417DSE)
Telephone: (5411) 4524-8004
e-mail: praderas@ifeva.edu.ar

Objectives

There are four objectives in this course of studies: First, to acquire greater experience in dealing with practical problems posed by the handling of grazes and pasturelands with the use of updated conceptual frames about how they function, animals' needs and the business restrictions that working in context of environmental and economic unrest represent. Second, to enlarge the knowledge of topics concerning handling grazing agro systems (implanted grazes and natural pasturelands) through the critical and interdisciplinary analysis of information coming from scientific and technological researches. Third, to increase the possibilities of students' professional success by providing better training that will allow them to answer creatively to a bio-physic, economically dynamic and uncertain context. Fourth, to get familiarized with specific formats of written and oral communication characteristic of a professional life linked to the handling of problems in grazing agrarian ecosystems.

Syllabus

Module 1: Gathering and interpretation of data. Commercial presentation of agrarian projects. Writing and communication in agrarian sciences.

Module 2: Heterogeneity of fodder and landscape resources at a national and international scale. Functioning of grazing ecosystems. Evaluation of fodder resources. Economic evaluation. Intensive production on pastures. Use of grazing systems

Module 3: Preparation of Final Paper.

Specialization in Milk production of Argentine Systems

General Information

Director: Fernando Bargo (Coordinator)
Degree: Specialist in Milk production of Argentine Systems
Approximate duration: 11 months
Enrolment periods: consult at Graduates School
Department: Graduates School "Alberto Soriano" – Faculty of Agronomy

Contact Information

Address: 4453 San Martin Av. (1417DSE)
Telephone: (5411) 4524-8041/2
e-mail: fbargo@agro.uba.ar

Course description

Objectives

For students to:

1. Acquire a solid knowledge of the principles and basic processes that intervene in the production of milk in Argentine systems as well as the factors that determine its productivity.
2. Understand the principles and fundamentals that will allow to improve the capacity to plan, monitor, operate and control the productivity of these systems. Develop the skills to analyse productive situations, identify problems at different scales and solve them in an uncertain economic context.
3. Understand the functioning of every component in the system with a systemic approach.
4. Develop a critical understanding of the possibilities of each area for supporting the production of milk and value the

benefits of the use of other complementary resources in the biologic and economic sustainability of the systems. 5. Enlarge the economic analysis of milk systems in Argentina, apply evaluation methodologies of investment that allow to assess the impact of technological changes in the system and interpret the indexes obtained in calculations. 6. Develop teamwork with an interdisciplinary approach. Improve the oral and written communication so as to achieve dynamic presentations of projects and communication of results. Improve the interchange of knowledge and ideas.

Syllabus

Module I: Writing and communication in Agrarian Sciences. Gathering and interpretation of data.
Module II: Systems of milk production; Part I: General concepts on systems of milk production. Systems of milk production; Part II: Specificities of milk areas or basins. Breastfeeding physiology-nutritional aspects. Milk roundups feeding. Theoretical and practical aspects that affect the production of milk in grazing systems with supplements. Theory and practice of fodder production in systems of milk production. Theoretical and practical aspects that affect the efficient use of fodder in milk production systems. Genetic improvement of milk roundups. Reproductive handling of milk roundups. Sanity of milk roundups and milk quality. Technical-economic analysis of companies. Economic planning and control of milk companies. Facilities and specific equipment for the production of high quality milk.
Module III: Continuous seminar: Improvement analysis and strategy for real cases. Complementary topics.

Specialization in Direct Harvesting

General Information

Director: Carina Alvarez, Eduardo Mulin (coordinator)
Degree: Specialist in Direct Harvesting
Approximate duration: 1 year
Enrolment periods: consult at Graduates School
Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Contact Information

Address: 4453 San Martin Av. (C1417DSE)
Telephone: (5411) 4524-8004
e-mail: epg @ agro.uba.ar

Course description

Objectives

To understand the complexity and functioning of agrarian production systems run by direct harvesting.
To carry out diagnosis and elaborate answers to different situations.
To have the criteria to predict the environmental implications involved in the decisions of operations, usually connected to direct harvesting.
To promote the capacity of using information from different sources, stimulating the critical sense.

Syllabus

Module I: Methodologies for approaching and systematizing knowledge. Processing of information and elaboration of technical presentations
Module II: Ecology of direct harvesting. Fertility of soils under different operating systems. Erosion and physical features of soils under direct harvesting. Integrated handling of plagues under direct harvesting and effects on soil fauna. Integrated handling of weeds in direct harvesting. Machinery for direct harvesting. Handling of crops in direct harvesting. Cattle and mixed systems in direct harvesting. Economic analysis of direct harvesting. Integrating workshop.

Module III: Elaboration of Final Paper.

Specialization in Management of the Value Chain of Bovine Meat

General Information

Director: Lorenzo Basso – Ana María Pereyra (Coordinators)
Degree: Specialist in Management of the Value Chain of Bovine Meat
Approximate duration: 2 years
Enrolment periods: consult at Graduates School “Alberto Soriano”
Department: Faculty of Agronomy – UBA- and Faculty of Agrarian Sciences –UNLZ-

Contact information

Address: 4453 San Martin Avenue (C1417DSE)
Telephone: (5411) 4524-8041/2
e-mail: ccbovina@agro.uba.ar

Course information

Objectives

- To provide training in an interactive place of the productive, industrial and commercial systems, in specific and interdisciplinary topics connected to the value chain of bovine meat and to the technologies that condition and improve their development.
- To promote the interaction between theory and professional practice, emphasizing the latter in the activities to be developed during the specialization.
- To understand quality as an essential concept in all the meat value chain
- To diagnose the general and particular problems that may crop up in the different stages of chain.
- To analyse the phenomena that determines meat quality in an interdisciplinary chain and from the point of view of consumers.
- To interpret the results of analysis of meat quality
- To provide innovative answers to the difficulties that arise in the management of the meat chain and suggest alternatives that exceed the ones used at present.
- Predict future repercussions and probable changes that may arise throughout the chain and their incidence in the internal and international market.
- To evaluate the national and international macroeconomic conditions according to a competitive placing of final products and to the profitability of companies from the area.

Syllabus

Module I: Introduction to quantitative methods for market research. Theory and techniques for the formulation of projects.

Module II: Advances in the systems of bovine meat production. Commercialization of cattle and meat. Processing and production plants of cattle. Bovine meat and head of cattle quality. Hygiene and safety in meta processing plants. Quality guarantee. Research of consumers' behaviour. Health and Nourishment Marketing. Animal production and environment. Coordination and integration of cattle and meat areas. Simulation models for the analysis of meat chains. Ethics and companies. Packaging systems of meat. Cooking technology for bovine meat. Innocuousness and toxicology. Innovation management. Seminars.

Module 3: Presentation of the Project for the Final Paper. Presentation of the evolution of the Paper. Presentation and evaluation of the Final Paper

Master in Aquaculture

General information

Director: Jose Bechara (coordinator)
Degree: MA of the University of Buenos Aires, Aquaculture Area
Approximate duration: 780 hours
Enrolment periods: consult at Graduates School
Department: faculty of Agronomy, Graduates School "Alberto Soriano"

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)
Telephone: (5411) 4524-8004
e-mail: jbechara@vet.unne.edu.ar

Course description

Objectives

To train students that will be able to provide successful answers to problems derived from the exploitation of live aquatic resources. Such exploitation establishes the need to achieve a certain degree of sustainability preserving the environmental quality and the genetic diversity.

Syllabus

Compulsory subjects: Statistics Methodology.
Optional subjects: Aquatic ecology. Introduction to aquaculture. Aquaculture production I. Water quality. Biology of cultivable organisms. Aquaculture engineering. Feeding and nourishment. Aquatic path biology. Sustainable development of aquaculture. Cold water aquaculture. Aquaculture production II. Aquaculture economy and planning. Principles and applications of natural water systems.

Master in Intensive Agriculture for Arid and Semi-arid Areas

General information

Director: Claudio Chimenti (coordinator)
Degree: Master of the University of Buenos Aires, Area: Agriculture for Arid and Semi-arid Areas
Approximate duration: 770 hours
Enrolment periods: consult at Graduates School
Department: Faculty of Agronomy, together with Ben Guiron del Neguev University (UBGN) in Israel

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)
Telephone: (5411) 4524-8041/2
e-mail: chimenti@ifeva.edu.ar

Course description

Objectives

The course's main objective is to train highly qualified graduates that will be able to answer successfully to the problems arising from the exploitation of natural resources, with vocation and a profile to contribute actively to the productive transformation of the agrarian sector and develop the highest productive potential of arid and semi-arid soils. Such exploitation establishes the need to achieve a certain degree of sustainability preserving the environmental quality and the genetic diversity.

Syllabus

Placement course: it is made up of four subjects and does not give credits. The subjects to be attended are: Notions of vegetal physiology; Agrarian edaphology; Crop production; and Introduction to genetics and vegetal improvement.

Subjects: vegetal physiology of crops in abiotic stressful conditions. Plant-substratum interaction. Statistics and experimental design. Systems of intensive agriculture in horticulture and floriculture. Irrigation and fertilization. Soils. Indoors agriculture: floriculture production systems in greenhouses. Post-harvest technology and fruit and vegetable quality. Protection of crops against illnesses and insects. Genetic vegetal classic and molecular improvement. Ecology and sustainable agriculture in arid and semi-arid areas. Agricultural economy.

Master in Agribusiness and Food

General Information

Director: Fernando Vilella (coordinator)

Degree: MA of the University of Buenos Aires in Agribusiness and Food

Approximate duration: 2 years

Enrolment period: consult at Graduates School

Department: Faculty of Agronomy

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8041/2

e-mail: calidad@agro.uba.ar

Course description

Objectives

To create an area for researching, teaching and transferring to the medium that tends to meet the social and economic demand in the area of agribusiness and food, through the interrelation of scientific and technological institutions, and the private sector and public organisms, in order to achieve a competitive management of agro food chains.

Syllabus

Basic core: Microeconomics. Macroeconomics. Economy and management of agro-industrial systems.

Analytic core: Strategic direction. Marketing and communication. Formulation and evaluation of projects and company risks. Capital markets and financial engineering.

Application core: Commodities businesses. Specialties businesses. Logistics and distribution of agro food. Analysis and management of competitiveness in agro food chains. International agro food scenario and MERCOSUR.

Optional core: Students have to choose three subjects among the following: Statistics applied to business. Negotiation and organizational analysis. Quality management (ISO-9000, 14000, HACCP series, etc.) Industrial technologies in agro food. Animal production systems. Intensive production systems. Accounting and financial information. Seminars on Theoretical issues and discussion of cases.

Master in Biometry and Improvement

General Information

Director: Rodolfo J.C. Cantet (coordinator)

Degree: Master of the University of Buenos Aires, Biometry and Improvement area

Approximate duration: 2 years

Enrolment periods: consult at Graduates School

Department: faculty of Agronomy, Graduates School "Alberto Soriano"

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8004

e-mail: rcantet @ agro.uba.ar

Course description

Objectives

To train undergraduates from biological areas, so that they will be able to carry out original and independent research on biometric methodology, in the animal and vegetable quantitative genetic improvement; statistical genetics, analysis and design of agrarian experiments and statistical ecology, with enough proficiency to be published in the corresponding magazines.

To provide advanced biometric training for graduates to be qualified to carry out quantitative analysis of biological problems concerning agrarian, biologic and social sciences, cooperating in an interdisciplinary way with researchers from agrarian, biologic and social sciences.

To train graduates to integrate applications of statistics, mathematics, genetics, computer sciences and other areas, so that they will be able to give advice on quantitative problems concerning agrarian, biologic and social sciences.

Syllabus

Compulsory for both orientations: Statistical Theory I

Orientation on Statistics: Linear models

Orientation on quantitative methods for improvement: Application of mixed linear models to the animal and vegetable genetic evaluation.

Optional subject for both orientations: Statistical Theory II. Variance analysis. Statistical methodology. Linear algebra I. Linear algebra II. Mathematical analysis II. Linear regression.

Experiment design. Advanced experiment design. Population genetics. Quantitative genetics. Mixed linear models. FORTRAN Programming of statistical models. Bayesian analysis in animal improvement. Multi varied analysis. Introduction to models of time series. Elaboration and publication of scientific papers. Survival analysis. Repeated measurements. Statistical genomics. Special topics in methodology. Advanced topics in biometry. Binding analysis and genetic mapping. Recompilation of analysis of varied data for biologic and social sciences. Introduction to the analysis of data categorization. Categorization of data. Non-parametric regression. Multi-varied descriptive analysis in biologic and social research. Analysis of main components. Other techniques for dimensionality reproduction. Classification techniques. Non-parametric methods and analysis of categorization variables.

Master in Soil Sciences

General Information

Director: Marta E. Conti (Coordinator)

Degree MA of the University of Buenos Aires in Soil Sciences

Approximate duration: 2 years

Enrolment periods: consult at Graduates School

Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Contact Information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8004

e-mail: conti @ .agro.uba.ar

Course description

To train graduates that will be able to develop scientific and technological knowledge necessary to face problems and find solutions in the country. The course has been designed to cater for the individual needs and objectives of students and to provide, at the same time, a solid core of knowledge of basic sciences which are indispensable for understanding the soil system. To permit the specialization in the areas of chemistry and fertility; soil handling and preservation; recognition and cartography; and/or any other area concerning the study of soils.

Syllabus

Compulsory: Statistical methodology

Orientation on soil fertility: Soil chemistry

Orientation on soil handling: Soil physics

Optional subjects for both orientations: Soil fertility and use of fertilizers. Soil morphology and classification. Biological processes of soils. Soil genesis. Plant-soil relation. Soils analysis and fertility diagnosis. Handling of soils for sustainable agriculture. Evaluation of lands and planning of their use. Soil taxonomy. Mineralogy and micro morphology. Basin handling. Preservation engineering. Edaphic organic contents and their relations with environmental pollution. Introduction to superficial chemistry of soils. Physical processes of soil degradation. Handling of agrarian waste and its implications on the environment. Biogeochemical cycles of micronutrients and their relation with the agricultural and cattle production. Pollution and soil quality. Underground water and its use in complementary irrigation. Isotopic techniques in soils and cultivations. Valuation of biological solids and organic waste from sewage treatment plants. Elaboration and publication of scientific papers. Advances in soil classifications. Microbianic ecology. Soil bio indicators: nematodes, arthropods, microcytic fungus . Polluting flows in agro systems. Soil biochemistry.

Master in Ecology and Handling of Forests

General information

Director: Steven Radosevich (coordinator); Tomás Schlichter (Associate coordinator)

Degree: MA of University of Buenos Aires, Area of Ecology and handling of forests.

Approximate duration: 768 hours

Enrolment periods: consult at Graduates School

Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Contact information

Address: 4453 San Martin Avenue (C1417DSE)

Telephone: (5411) 4524-8004

e-mail: pforest@inta.gov.ar

Course description

Objectives

To train highly qualified professionals that will be able to identify problems and develop research programmes that facilitate the searching of solutions and permit the technological development. This area has been created with the aim of training professionals qualified to participate creatively in the study and handling of forests.

Syllabus

Statistical methodology. Analysis of vegetable heterogeneity. Economy of natural resources: forests services. Principles of forest ecology and eco physiology. Forest handling: silvicultural aspects and biodiversity. Forest genetics. Forest dynamics and disturbance: concepts and methodologies. Forest nutrition. Silviculture: science as a support of decision making. Modeling of forest production. Scientific groundings for the design of forest grazing systems.

Master in Agrarian Economy

General information

Director: Carmen Vicién (Coordinator)
Degree: MA of UBA, Agrarian Economy Area
Approximate duration: 770 hours
Enrolment periods: consult at Graduates School
Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Contact information

Address: 4453 San Martin Avenue (C1417DSE)
Telephone: (5411) 4524-8004
e-mail: cvicien @ infovia.com.ar

Course description**Objectives**

To train argentine and foreign professionals in economic sciences and their application to agrarian topics concerning two broad areas: A) Rural administration, B) Agrarian Politics.

Syllabus

The syllabus is made up of subjects shared by the orientations and others which are specific to each course.

Compulsory subjects for both orientations: Microeconomics I. Macroeconomics I. Econometrics I. Rural Administration I.

Subjects specific to the orientation on Agrarian Politics: Agrarian politics.

Subjects specific to the orientation on Rural Administration: Rural administration II.

Optional subjects for both orientations: Microeconomics II. Macroeconomics II. International economy. Agrarian commercialization. Economic politics. Advanced topics on rural administration. Operative research I. Operative research II. Economic development. Rural sociology. Ecologic economy. Political economy of agro food systems. Elaboration and publication of scientific papers.

Master in Agronomy and Biology Teaching**General Information**

Director: Adela Fraschina
Degree: MA of UBA, Agronomy and Biology Teaching Area
Approximate duration: 2 years
Enrolment periods: consult at Faculty
Department: Faculty of Agronomy

Contact information

Address: 4453 San Martín Av. (C1417DSE)
Telephone: (5411) 4524-8041
Email: fraschin@agro.uba.ar

Course description**Objectives**

To train professional teachers of agronomy and biology who contribute to the training of qualified human resources in the diverse agrarian schools and who generate programs of insertion and participation in regional economies. The course aims at promoting a better integration of such schools to the society of information, through networks that allow the circulation of teaching,

technological and research knowledge. It also aims at sharing the intellectual production generated in our country with other international members of the project.

Fundamental objectives: To develop pedagogic, didactic and technological skills to teach in agrarian schools. To generate research projects concerning in the area of agrarian teaching that permit linking schools to the social, regional and national problematic.

Syllabus

- A. Pedagogic-didactic core: A.1. Pedagogy for agrarian teaching. A.2. Didactic for agrarian teaching. A.3. Learning psychology.
- B. Technological core: B.1 Transversal cores: B.1.1. Introduction to productive systems. B.1.2. Introduction to the study of agro industrial complexes. B.2. Specific technical cores: B.2.1. Natural resources. B.2.2. Production of vegetables. B.2.3. Animal production. B.2.4. Agro industrial production. B.2.5. Environment.
- C. Epistemological core: Epistemology of agrarian knowledge.
- D. Sociological core. D.1. Organizational sociology. D.2. Educational sociology
- E. Historic, political and economic core. E.1. Agrarian Policies. E.2. Commercialization and agrarian markets.
- F. Research core: F.1. Research methodology
- G. Teaching and technological practice core: G.1. Internship in an agrarian school (other than the one students come from). G.2. Internship in an agrarian and/or agro industrial establishment.

Master in Production of Vegetables

General Information

Director: Roberto Benech Arnold (coordinator)

Degree: MA of UBA, Area of Production of Vegetables.

Approximate duration: 770 hours

Enrolment periods: consult at Graduates School

Contact Information

Address: 4453 San Martín Av. (C1417DSE)

Telephone: (5411) 4521-3089

email: benech@agro.uba.ar

Course description

Objectives

To provide technicians, researchers and teachers training in researching that will allow them to efficiently identify and solve problems concerning cultivations of which biological aspects represent the main features.

Syllabus

Compulsory subjects: Statistical methodology

Orientation on extensive farming: Eco physiology of seeds. Eco physiology of crops.

Orientation on intensive farming: Eco physiology of pit and pip fruits. Dynamics of nutrient use in cultivations

Orientation on vegetal genetics: Introduction to molecular biology. Population genetics and evolution.

Orientation on vegetable protection: weed ecology. Integrated control of plant illnesses.

Optional for all orientations: Simulation model of agrarian expansion. Eco physiology of seeds. Eco physiology of crops. Eco physiology of weeds. Physiology of fodder plants. Physiology of vegetal cells and plants under stressful conditions. Vegetal genetic resources. Dynamics of nutrient use in cultivations. Cultivation ecology. Energetic metabolism in micro organisms. Growth and

development control of plants. Biotechnology seminars. Agrarian biotechnology. Cereal genetics. Genetic and fodder species improvement. Photobiology: UV radiations and earth plant reactions. Introduction to molecular biology. Reproductive biology of superior plants. Population and evolution genetics. Post-harvesting physiology and technology of fruits. Biologic control: general principles and application of bio-fungicides in agriculture. Integrated control of plant illnesses. Physiological groundings for cultivation improvement. Special topics concerning vegetal biology. Advanced topics concerning vegetable production. Nitrogen use in cultivations. Molecular fitopathology. Floriculture: groundings for the handling of cultivation in protected areas. Elaboration and publication of scientific papers. Ecology and handling of agrarian plagues. Physiological and genetic factors that determine the quality of crops and oleaginous plants.

Master in Natural Resources

General Information

Director: José María Paruelo, Rodolfo Golluscio (coordinator)
Degree: MA of UBA, Natural Resources Area
Approximate duration: 770 hours
Enrolment periods: consult at Graduates School
Department: Faculty of Agronomy, Graduates School "Alberto Soriano"

Contact information

Address: 4453 San Martín Av. (C1417DSE)
Telephone: (5411) 4524-8004
email: paruelo@ifeva.edu.ar

Course description

Objectives

The programme's main objective is to train highly qualified graduates in solving successfully problems stemming from the exploitation of natural resources. Such exploitation establishes the need to achieve a certain degree of sustainability preserving the environmental quality and the genetic diversity. These problems can be better handled if there are graduates qualified to: a) handle natural resources adequately at different stages; b) carry out research concerning issues connected to the use of natural resources applying the scientific method with rigour and creativity; c) train undergraduates of course of agrarian sciences who will play an active role in the handling of natural resources.

Syllabus

Statistical methodology. Analysis of vegetal heterogeneity. Fundamentals and recent advances in ecology. Regional analysis of ecosystems through the use of remote sensors. Biodiversity. Ecology of plant-herbivore relations. Ecology of lakes. Ecology of grazing lands. Ecology of arid areas. Ecology of vegetable colonies. Entropy and Ecology. Evaluation of environmental impact. Grass morphology: ramification systems in grasses. New crops for arid areas. Argentine grazing areas and savannas. Special patterns in ecology: models and analysis. Agro system sustainability. Use of systematic methods for the solution of agrarian problems. Use of grazing lands. Bio physical groundings in the water and energy interchange in ecosystems. Mass and energy conservation in ecologic systems. Air environment. Underground environment. Energetic balance of leaves and canopies.

Master in Systems of Agrarian Production for Subsistence Areas

General information

Director: Roberto Benencia (coordinator)

Degree: MA of UBA, Area of Systems of Agrarian Production for Subsistence Areas
Approximate duration: 778 hours
Enrolment period: consult at Graduates School
Department: faculty of Agronomy, Graduates School "Alberto Soriano"

Contact information

Address: 4453 San Martín Av. (C1417DSE)
Telephone: (5411) 4524-8004
e-mail: benencia@agro.uba.ar

Course description

Objectives

To train professionals of agrarian sciences in researching and dealing with complex problems posed by subsistence areas. Students are introduced to concepts concerning social sciences keeping up the rigorous biologic understanding of production oriented to the direction of specific problems is this kind of systems.

Syllabus

Compulsory subjects: Agrarian ecosystems sustainability. Rural sociology.
Optional subjects: Statistics applied to biologic research. Handling of soils for sustainable agriculture. Handling of basins. Eco physiology of crops. Ecology of crops. Ecology of grazing systems. Ecology of arid areas. New crops for arid areas. Use of systemic methods for the solution of agrarian problems. Use of grazing lands. Rural administration I. Social anthropology. Territorial issues and rural development in Argentina. Sociologic theories for rural development. Education as a critical tool in rural development. Elaboration and publication of scientific papers. Agrarian workers. Gathering and analysis of varied data for biologic and social sciences.

Specialization in Bromatology and Food Technology

General Information

Director: Stella Maris Alzamora
Degree: Specialist in Bromatology and Food Technology
Approximate duration: 2 years
Enrolment period: consult at faculty
Department: Faculty of Exact and Natural Sciences, Faculty of Pharmacy and Biochemistry, Faculty of Veterinarian Sciences, Faculty of Agronomy. Administrative office: Faculty of Exact and Natural Sciences

Contact information

Address: Ciudad Universitaria Pabellón II (C1428EHA)
Telephone: 4576-3333 Fax: (5411)4576-3351
E-mail: postgrado@de.fcen.uba.ar

Course description

Objectives:

To provide highly specialized academic and professional training in the different areas connected to Bromatology and Food Technology

- a) To provide human resources specialized in food technology to the industrial and technical and scientific area.
- b) To incorporate updated personnel in the area of food preservation, elaboration, storage and quality control.

- c) To develop activities that promote analytic, critical and creative skills, integrating knowledge so as to provide solutions to problems concerning food.

Syllabus

Food microbiology. Superior bromatology. Food preservation fundamentals. Industrial food processing. Nutrition applied to food technology. Management, control and quality guarantee in the food industry.

Master in Biotechnology

General information

Director: Humberto Cisale

Degree: Master of UBA in Biotechnology

Approximate duration: between 18 and 30 months

Enrolment periods: consult

Responsible institutions: Coordinating committee: made up of representatives of the Faculties of Agronomy, Exact and Natural Sciences, Veterinary Sciences, Law, Pharmacy and Biochemistry, Engineering and Medicine.

Department: Faculty of Pharmacy and Biochemistry, Faculty of Exact and Natural Sciences (annually alternated). Administrative office: Faculty of Pharmacy and Biochemistry.

Contact information

Address: 956 Junin St. (C1113AAD)

Telephone: 4964-8214

E-mail: posgrado@ffyb.uba.ar

Syllabus

Objectives

To provide high quality academic professional training in the development of research, teaching and productive development, as well as in the analysis of technologic, economic, social and legal aspects necessary for the design and evaluation of policies. To provide human resources specialized in the technical handling of biotechnology disciplines. To supply the university and the scientific-technical system with teachers, researchers and technicians updated and reoriented in the field of biotechnology basic disciplines.

Syllabus

First part: Genetic engineering. Economic aspects of biotechnology. Interaction of micro organisms with their environment and their application to fermentation processes. Cellular culturing and their biotechnological applications. Change of scales in biologic processes. Basic techniques of immunology. Virus culturing and purification. Energetic metabolism in microorganisms. Preservation of biotechnologically important microorganisms.

Second part: Cultivation of anaerobic microorganisms and identification through physical methods. Structural aspects of proteins and peptides. Technical applications of molecular biology to virus diagnosis: genomic catheters and chain reaction of polymerase. Application of modern biotechnology to agriculture. Quality control of biotechnology. Molecular indicators in plants. Biotechnological techniques applied to veterinary sciences. Transgenic animals. Biodegradation of industrial effluents. Vegetal biotechnology: manipulation of secondary metabolites in in-vitro cultures.

Master in Bromatology and Technology of Food Industrialization

General information

Director: Stella Maris Alzamora

Degree: MA of UBA in the Area of Bromatology and Technology of Food Industrialization

Approximate duration: 2 years

Enrolment periods: consult at faculty

Responsible institutions: Faculties of Exact and Natural Sciences, of Pharmacy and Biochemistry, of Veterinary Sciences and of Agronomy.

Department: Faculties of Exact and Natural Sciences, of Pharmacy and Biochemistry, of Veterinary Sciences and of Agronomy. Administrative office: faculty of Exact and Natural Sciences.

Contact information

Address: Ciudad Universitaria Pabellón II (C1428EHA)

Telephone: 4576-3333 Fax: (5411) 4576-3351

E-mail: postgrado@de.fcen.uba.ar

Course description

Objectives

To provide highly specialized academic and professional training in the areas of Bromatology and Technology of Food Industrialization. To supply the industrial and scientific-technical sectors with human resources specialized in food technology. To incorporate teachers and researchers updated in the areas of food preservation, elaboration, storage and quality control, promoting research and scientific-technological development. To develop activities for the promotion of analytic, critical and creative skills, integrating knowledge to provide solutions to problems concerning food.

Syllabus

The MA is oriented towards different areas of knowledge and activities. The knowledge areas are composed mainly of the following disciplines: 1. Mathematics. 2. Physics. 3. Chemistry.

4. Bromatology. 5. Microbiology. 6. Transportation phenomena. 7. Unitary operations. 8. Unitary processes. 9. Nutrition. 10. Quality control and management.

The areas of activities embrace: 1. Theoretical and experimental training. 2. Methodologies and techniques. 3. Scientific research.

Compulsory subjects: Superior bromatology. Fundamentals of food preservation. Food industrial processing. Nutrition. Quality management, control and guarantee in the food industry. Food microbiology. Seminal for Thesis elaboration.

Optional subjects: Food toxicology. Food sensorial features. Microbiologic processes in the food industry. Enzyme studies applied to the food industry. Food legislation. Prediction of vitamin retention in preserved food. Food commercialization. Advances in the minimal processing of fruits: textural, micro structural and microbiological aspects. Economic and financial elements. Company organization and direction. Production planning and programming. Vegetable post-harvesting. HACCP. Predictive microbiology and technology of combined factors: an integrated approach to microbiologic safety in food. Advances in nutrition. Advances in quality management and control. Advances in food microbiology. Thesis.

Master in Agrarian Meteorology

General information

Director: Eduardo M. Sierra

Degree: MA of UBA in Agrarian Meteorology

Approximate duration: 3 years

Enrolment period: consult at faculty

Responsible institutions: Faculty of Agronomy and Faculty of Exact and Natural Sciences

Department: Faculty of Agronomy and Faculty of Exact and Natural Sciences. Administrative office: Faculty of Exact and Natural Sciences

Contact information

Address: Ciudad Universitaria Pabellón II (C1428EHA)

Telephone: (5411) 4 576-3333/32

E-mail: postgrado @ de.fcen.uba.ar

Course description

Objectives

To provide knowledge concerning the relations between agriculture and meteorology and the agrarian, stock breeding and forest activities. For students to get acquainted with theoretical and experimental methods needed in agro meteorological studies.

To develop activities for the promotion of analytic, critical and creative skills, integrating knowledge to provide solutions to agrarian problems.

Syllabus

a) Introductory subjects for professionals with biologic training: Mathematics I. Mathematics II. Mathematics III. General physics. General meteorology. Theoretical meteorology. Synoptic meteorology.

b) Introductory subjects for professionals with meteorological training: General chemistry. Biologic chemistry. Vegetable anatomy and physiology. Animal anatomy and physiology. Introduction to agrarian sciences. Ecology. Edaphology.

c) Compulsory subjects: Agrarian meteorology. Computer studies. Biologic and atmospheric observation. Statistical climatology. Applied micrometeorology I. Laboratory and experimental design. Hydrology. Agrarian and meteorological economy.

d) Optional subjects: Applied climatology. Applied micrometeorology II. Biometeorology. Environmental animal physiology. Agro meteorological models. Adverse factors for agriculture and plant adaptation to environmental stress. Crop eco physiology. Ecology of arid areas.

e) Thesis

Master in Processes of Regional Integration - MERCOSUR

General information

Director: to be named.

Degree: MA of UBA in Processes of Regional Integration – MERCOSUR

Approximate duration: 2 years

Enrolment period: consult at faculty

Department: Faculties of Agronomy, Economy, Social Sciences, Law, Philosophy and Art, and Engineering. Administrative office: Faculty of Economy.

Contact information

Address: 2122 Córdoba St. (C1120AAQ)

Telephone: (5411) 4374-4448 / 4370-6156

E-mail: posgrado@econ.uba.ar

Course description

To provide basic training in: historic and international antecedents of MERCOSUR; situation of the countries that integrate it; the trend of the Common Market; the international relations of the sub region with the rest of Latin America and the world. To provide specialized training in: economic development; human development and environment; international relations; and legal and administrative order.

Syllabus

Basic cycle: The international contemporary order. Contemporary trends in technology. International relations of MERCOSUR. History of the nations that make up the MERCOSUR and their relations from the Tordesillas Treaty to the Asunción Treaty. Economic structure and economic and social development of Brazil, Paraguay and Uruguay. Compared economic and social structure and

development of the nations that make up MERCOSUR. The Asunción Treaty. Human development and environment. MERCOSUR evolution. Languages: Portuguese.

Orientations:

- a) Economic development: Compared economic politics. National financial systems. Regional economies. Sectarian policies. Private companies. State reform and public companies.
- b) Legal and administrative ordering: previous processes of integration. Different processes of integration in Central America. Legal and institutional ordering in MERCOSUR.
- c) International relations: the contemporary world order. Globalization of the world order and endogenous dimension of the national and MERCOSUR development. Formation of regional areas within globalization. History of international relations among countries that make up MERCOSUR. Present international compared politics. MERCOSUR and Latin America.
- d) Human development and environment: Education, training and information. Policies arranged on mayor groups. Basic ecological and environmental concepts. Processes of environmental degradation. Sustainable development and changes in the use of the soil.

MA in Public Health

General information

Director: Noemí Bordoni

Degree: MA of UBA in Public Health

Approximate duration: 2 years

Enrolment period: consult at Faculty

Responsible institutions: The MA Committee is made up of representatives from the Faculties of Agronomy; Architecture, Design and Urbanism; Economy; Pharmacy and Biochemistry; Philosophy and Arts; Engineering; Medicine; Dentistry; and Psychology.

Department: Superior Board of UBA

Contact information

Address: 950 José E. Uriburu St. 1st floor – Temporary venue- (C1114AAD)

Telephone: 4508- 3618 int. 219

E-mail: masp@rec.uba.ar

Course description

To train people that will be qualified to:

Approach public health as an interdisciplinary, inter and extra sectarian field

Acknowledge the relevance of taking into consideration social participants, their representations and practices in the field of public health.

Evaluate the present characteristics and trends of socio cultural, economic, environmental and political processes concerning their relations with life and health conditions

Propose courses of action to reduce the risks of falling ill and dying.

Promote research about public health concerning its different components:

- a) health situation
- b) health determinants
- c) health resources
- d) evaluation of the interventions in health as regards structure, process and results
- e) care quality

Solve health problems through a process of planning- programming- execution- evaluation.

Syllabus

Area I: Health situation and health-sickness determinants.

Module 1: Health situation: Objective knowledge of health and the need of information.

Epidemiology. Epidemiologic method. Analysis design. Decision analysis. Elaboration, presentation,

analysis and interpretation of data. Statistics and variables. Statistical inference. Epidemiological transition and new diseases.

Module 2: Health and society: Social issues in the field of health. Analysis of health conditions regarding socio demographic structures and processes. Social construction. Life and vulnerability conditions.

Module 3: Health and economy: Introduction to health and economy. Economic groundings of health. Economic characterization of the health area. Equity, accessibility and vulnerability.

Module 4.: Health and environment: Environment and development. The environment and its impact on health. Natural environment. Environmental impact. Primary food production. Man made environment. Basic urban drainage. Environmental diagnosis. Synthesis.

Module 5: Bioethics and health: Ethics. Human beings. Intimacy rights. Human rights. Public health.

Area II: Change and transition in Health

Module 1: Politics and health: Health policies. State and society. Compared social policies. Social policies in Argentina.

Module 2: Sectarian transformation.

Module 3: Human rights, ethics and social responsibility.

Area III: Health resources, systems and services:

Module 1: Strategies and interventions in public health

Module 2: Characterization and management of resources in health (human, physical, financial and technological)

Module 3: Health systems: organizations and services.

Area IV: Application – Fieldwork

Area V: Research.

Doctorate

Degree: Doctor of UBA, Agrarian Sciences Area

Objectives

The main objective is to carry out a thesis that makes an original contribution to the knowledge in Agrarian Sciences.

Enrolment period: all year

Doctorate Committee: Dr. Ricardo Alejandro Wolosiuk; Agrarian Engineer Luis Mroginsky; Dr. Rodolfo Augusto Sanchez.

Substitutes: Dr. Rodolfo Juan Carlos Cantet; Jorge Alberto Mariotti.

Applicants Admittance

The Doctorate Committee will analyze the applicants' antecedents and interview them to form an opinion about their personal conditions and will propose to the Superior Board to accept or turn the applicant down.

Counselors and special syllabuses

Counselors will help doctorates in the development of their studies, and will formulate, together with trainees, a proposal of supplementary activities such as courses, seminars, readings and will supervise that they are fulfilled.

Thesis Director and Plan

The director will provide guidance to students regarding the elaboration of their projects, the choice of courses and seminars, the carrying out of researches, the elaboration of the results, and the writing of the thesis. He will also evaluate the development of the thesis periodically.

Presentation and defence of the Thesis

The Thesis will be evaluated after the director's conformity and once the additional requirements for granting the degree have been fulfilled. Such requirements are established by the Doctorate Committee.

The Thesis may be: a) approved with a justified report: pass, good, distinguished, outstanding; b) given back: in this case students may have to modify or complete it; c) rejected with a justified report. Jury's decisions can't be appealed.