

The Graduate Students' Guide

Department of Graduate Studies and International Cooperation
National University of Río Cuarto



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Authorities

Rector: Marcelo Ruiz

Vice-rector: Javier Salminis

Secretary-General: Pablo Galimberti

Academic Secretary: Claudio Asaad

Labor Secretary: Cristina Souto.

Science and Technology Secretary: Alejandro Larriestra

Outreach and Development Secretary: Silvina Baigorria

Economic Secretary: Adrián Valetti

Social Welfare Secretary: Emilio Zabala

Technical Coordination and Services Secretary: Gabriel Paisio

Graduate Studies Secretary: Prof. Jorge Barral - Tel: 0358-4676413 -
jbarral@rec.unrc.edu.ar

Secretary of Planning and Institutional Relations: Nelso Doffo

Academic Council of the Department of Graduate Studies and International Cooperation

Faculty of Agronomy and Veterinary Medicine

Dra. Claudia Rodriguez – Secretary of Graduate Studies and
Interinstitutional Relations

Tel: 54-0358-4676209 - cerrecalde@ayv.unrc.edu.ar

Faculty of Economic Sciences

MS. Gabriela Estrada - Graduate Studies Secretary

Tel: 54-0358-4676275 – gestrada@fce.unrc.edu.ar

Faculty of Exact, Physicochemical and Natural Sciences

Dra. Tania Taurian – Graduate Studies Secretary

Tel: 54-0358-4676431 - secpostgrado@exa.unrc.edu.ar

ttaurian@exa.unrc.edu.ar

Faculty of Humanities

Dra. Diana Sigal - Graduate Studies Department

Tel: 54-0358-4676467 - dsigal@hum.unrc.edu.ar

Faculty of Engineering

MS. Mercedes Carnero – Department of Graduate Studies

Tel: 54-0358-4676496 - posgrado@ing.unrc.edu.ar

Presentation

The National University of Rio Cuarto aims at transcending national borders and integrating itself into the international context. Its policy is oriented towards the promotion of mobility and exchange of graduate and undergraduate teachers and students by offering research and academic activities, the infrastructure and services necessary to assist foreign visitors.

Every operating Graduate Course of the UNRC is approved by the Argentine National Commission for University Assessment and Accreditation (CONEAU: Comisión Nacional de Evaluación y Acreditación Universitaria), which is a requisite for its existence. The following is a brief presentation of our Academic Programs.

About the national university of Rio Cuarto

The National University of Rio Cuarto (UNRC) is a public entity part of the national system of higher education that aims at imparting knowledge, conducting scientific research, providing technical and professional training, rising ethical and aesthetic levels, promoting and spreading our national culture in all its forms, and producing goods and providing services for social purposes. The University' s activities are oriented towards the clarification of humanity' s problems, making necessary and useful contributions for their resolution, prioritizing the ones that affect our country, and specially the region of Rio Cuarto.

The University was founded on May 1st, 1971 by a Federal Executive Branch decree which was part of a program aimed at adjusting Argentinean university education to the needs of development and as a response to a strong local and national social movement that resulted in the greatest cultural conquest of the region.

Rectorate

Specialist Degree Programs



SPECIALIST IN MANAGEMENT AND TECHNOLOGICAL LINKING

Accreditation: Ministerial Resolution in process, Dossier n° 15849/12. Approved by CONEAU Resolution N° 928/09.

Course Director: Dr. Arnaldo Solterman

Degree: Specialist in Management and Technological Linking

Course length: According to resolution 048 art. 10, annex II, the length of the program is of 4 academic semesters.

Addressees: The program aims at training Technological Manager, and it is addressed to graduated professionals of careers with a length of 4 or more years in national or foreign universities or of non-university higher education.

Requirements: To possess a university degree or a degree of non-university higher education with a length of 4 years.

Objectives: To train specialists capable of producing significant changes in the planning and creation of strategies and linking frameworks between scientific-technological university research and the productive sector.

Graduates profile: The specialist degree aims at training professionals in technological management, to be a change factor in the field of technological linking in the productive and university sectors. It provides a global and strategic vision of technological management and the ability to identify scientific participants in the technological and productive sectors.

Contact Information:

Director: Dr. Arnaldo T. Soltermann Tel: +54 (358) 4676436.

Tecnicl and academic Advisor : M.V. Fabián A. Shiferli.

Oficina 20. Dpto. Química, Facultad Ciencias Exactas.

Email: gtec-rcvm@rec.unrc.edu.ar

Curriculum:

1. Economics of innovation and knowledge management. Particularities and business conception.
2. Management abilities to favour innovation in companies.
3. Strategies for the creation and development of a technologically based company.
4. Planning, management and evaluation of R&D projects.
5. Intellectual property protection and technological surveillance.
6. ICTs in companies as a tool for innovation and development.
7. Innovation, quality and international insertion of companies
8. Project management and computer tools for the design, management and control of R&D projects.
9. Finances applied to the development of R&D projects.
10. Guidance and supervised professional practice workshop for the integral final paper.



Faculty of Agronomy and Veterinary Medicine

Doctoral Degree Programs



DOCTOR OF SCIENCE, TECHNOLOGY AND FARMING INNOVATIONS

Accreditation: Approved by Ministerial Resolution N° 917/09 and CONEAU Dictum, Project N° 10273/08, Session N° 281/08.

Course Director: Dra. Adriana Vivas

Assistant Coordinator: Dra. Marta Vinocur

Degree: Doctor of Science, Technology and Farming Innovations.

Course length: According to resolution 048 art. 6, annex IV, the length of the program is of 5 years.

Addressees: Professional teacher researchers graduated in disciplines related to the Agricultural Sciences: Veterinarians, Agricultural Engineers, Bachelors in Biological Sciences, Microbiologists, Biochemists and other related careers.

Requirements: The candidate's application for enrolment must contain:

-The Academic Transcript of its undergraduate course and certification of previous graduate courses, if any. In the case of the latter, the candidate must attach a summary of its thesis project.

- The thesis project including a report of the current state of the investigation, with the most recently acquired bibliography, the formulation of objectives and research plan (approved by the chosen dissertation director and co-director, if there was one).

-Specialization program and deepening of the subject to be developed during the dissertation based on the research topic which contemplates graduate courses, seminars, participation in scientific meetings, visits to research centres, consultations to specialists and any other activity that contributes to the gathering of information and specific formation of the project (approved by the chosen dissertation director and co-director, if there was one).

-A detailed list of the available resources to guarantee the completion of the dissertation project.

-A detailed Curriculum vitae of the applicant. The corresponding documentary proof must be available to the Thesis Commission.

-A note from the Director and Co-Director, if there was one, in which they declare their knowledge of the thesis project and the current regulations, and the acceptance of the direction (and co-direction) of the thesis, and which needs to be accompanied by their respective Curriculums Vitae.

-A note of approval from the Academic Unit in which the applicant will develop activities related to their doctorate degree.

Objectives:

1. To train teachers and researchers, professionals and technologists interested in the management of activities and research in the field of Science, Technology and Farming Innovations at different levels: academic, governmental, national and international agricultural institutions, among others.
2. To provide the necessary knowledge, experience and technology to facilitate the approach to the farming field and the development of their functions from a systemic point of view, for a correct professional development and immediate applicability.
3. To acquire abilities related to the dynamics of the national system of innovation, their organization and relation with social, political and economic processes in national and international scenarios.

Graduates Profile: The doctoral degree aims at meeting the academic needs of teachers-researchers and professionals graduated in different disciplines who have started their studies in the area of Agricultural Sciences or wish to progress in it. It is oriented towards professionals with graduate degrees related to the Agricultural Sciences in the academic field, particularly professionals responsible of reengineering and change processes.

The following are key aspects of the graduate' s profile:

- * To have a strategic and innovative vision of the Agricultural Sciences.
- * To be a change factor actor.
- * To take risks when taking decisions.
- * To consider quality as an aspect of value.
- * To reach excellence levels in every discipline in order to successfully face current demands.
- * To be able to analyze and conduct research without improvising and to apply their knowledge in modern scientific methodologies.
- * To train professionals with high academic qualifications.
- * To acquire specific abilities related to the understanding of the dynamics of the national system of innovation, the morphology of its actors, their organization and operation, their relation with social, political and economic processes of the country and international scenario.
- * The PhD proposes the training of professionals in Agricultural Sciences with an integral and modern vision of animal and vegetal health and production, the environment, the natural resources, biotechnology and agrobiología.

Curriculum:

The curriculum is personalized and semi-structured. It is based on four thematic axes:

- 1- Natural Resources and Environmental Protection
- 2- Comparative Public Policies
- 3- Agrobiology
- 4- Animal Health and Production

The doctoral degree in Science, Technology and Farming Innovations of the UNRC will be organized in three general training courses of obligatory attendance, of a minimum of 60 hrs: an epistemology course, a biostatistics course, an experimental design course which is obligatory for all students.

Contact Information:

Secretaría de Posgrado
Facultad de Agronomía y Veterinaria
Tel. 54-358-4676210 / 209

Director: Dra. Adriana Beatriz Vivas
avivas@ayv.unrc.edu.ar

Assistant coordinator:

Dra. Marta Vinocur
mvinocur@ayv.unrc.edu.ar



Faculty of Agronomy and Veterinary Medicine

Master's Degree Programs



MASTER`S DEGREE IN FARMING SCIENCES

Accreditation: Ministerial Resolution in process, Dossier n° 100987/11. Approved by CONEAU Resolution N° 369/11,

Course Director: MS. Alberto Cantero

Degree: Master in Agricultural Sciences with mentions in Land Management, Environmental Management, Plant Production, and Economy and Farm Development.

Course length: According to resolution 048 art. 10, the length of the program is of 3 years.

Addressees: Graduated professionals of careers related to the Agricultural Sciences.

Requirements:

- An application letter requesting admission to the course.
- A copy of their graduate degree.
- Curriculum Vitae

Objectives:

- 1- To train professionals qualified for conducting scientific research; developing new technologies; training human resources in plan production, land management, environmental management, and farm development and economy.
- 2- To contribute to the student' s continuous training process to facilitate their insertion into the agricultural productive, economic and social processes.

Graduates profile:

The student will be trained to:

- a- Design, develop and evaluate knowledge, technologies and training programs for human resources in the technical, social, economic and environmental dimensions to be applied to agriculture in companies, the region and the country.

b- Perform in the public sector:

- Integrating and forming teams for innovation and technological development that involve research activities and transference of knowledge and technologies;
- Leading and integrating professional teams for the training of human resources connected to agriculture;
- Designing, applying and evaluating agricultural policies of territorial legislation, environmental management and defence of the country' s interests in relation to the agrifood and agricultural production, in the national and international context.

c- Perform in the private sector:

- Leading and forming assessment teams for agricultural producers, or being part of teams in agri-food and agro-industrial industries;
- Running and developing organizations to improve the capacity to resolve production, storage, reconditioning and commercialization problems of companies and agricultural producers;
- Generating technological models for the development of companies and/or groups of agricultural producers;
- Designing and running companies based on agricultural technologies and of agricultural services, and cooperating with the development of agri-food companies.



Contact Information:

Secretaría de Posgrado Facultad de Agronomía y Veterinaria

Tel: 54-358-4676209 Email: postgrado@ayv.unrc.edu.ar

Website: <http://www.ayv.unrc.edu.ar/POSGRADOS/Maestria-en-ciencias-agropecuarias/Maestria-en-ciencias-agropecuarias.html>

Curriculum:

BASIC CYCLE

Required Courses:

- * Biostatistics and experimental design (80 hrs).
- * Methodological and epistemological aspects of scientific research (40 hrs).
- * Systems analysis (60 hrs).

Elective Courses:

- * Meteorology elements (40 hrs).
- * The soil system (60 hrs).
- * Vegetation Studies (40 hrs).
- * Farm development and economy (40 hrs).
- * Agricultural system simulation models (40 hrs).
- * Activities related to the thesis (40 hrs).
- * Thesis workshop.
- * Exhibition of thesis projects and thesis previews.
- * Independent studies.

SPECIFIC CYCLE

Management of Agricultural Lands Mention

- * Land-plant system relations (60 hrs)
- * The agricultural importance of organic matter and soil dynamics (40 hrs)
- * Geostatistics (40 hrs)
- * Soil analysis and their interpreta-

tion (60 hrs)

- * Introduction to space remote sensing (40 hrs)
 - * Geographical information systems (40 hrs)
 - * Soil technologies (60 hrs)
 - * Legislation and management of basins subject to water erosion (40 hrs)
 - * Land management in hidrohalmorficos environments (40 hrs)
 - * Lands surveying (40 hrs)
 - * Land management planning (40 hrs)
 - * Climate change and society' s vulnerability (40 hrs)
 - * Land management in semi-arid environments (40 hrs)
 - * Soil physical conditions (40 hrs)
 - * Chemical dynamics of the soil and fertilization principles (40 hrs)
- ### Plant Production Mention
- * Recent advances in plant ecology (40 hrs)
 - * Plant ecophysiology (40 hrs)
 - * Physiology and analysis of the physiological quality of seeds (40 hrs)
 - * Plant' s architecture: roots, adaptive strategies (40 hrs)
 - * Viability of agricultural systems (40 hrs)
 - * Management strategies for pests in agricultural crops (40 hrs)

- * Dynamics of weed propagules in agro-ecosystems (40 hrs)
 - * Cereals and oilseeds production technology (60 hrs)
 - * Fodder use and production technology (60 hrs)
 - * Agricultural biotechnology (20 hrs)
 - * Polyploidy and interspecific hybridization: Basic and applied aspects (40 hrs)
 - * Location-specific crop management (40 hrs)
 - * Epidemiology applied to crop management (40 hrs)
 - * Management of the interactions between weeds and crops (40 hrs)
 - * Population dynamics: its application to the management of crop weeds (40 hrs)
 - * Vegetation-herbivores interactions (40 hrs)
- SEMINARS
- * Molecular genetics and plant biology (20 hrs)
 - * New paradigms of agricultural production – biodiesel and ethanol (20 hrs)
- Environmental Management Mention
- * Environmental Management (40 hrs)
 - * Multivariate analysis applied to agricultural systems (40 hrs)
 - * Environmental impact assessment (40 hrs)
 - * Payment systems for environmental services (40 hrs)
 - * Environmental education (40 hrs)
 - * Management of farming waste (40 hrs)
 - * Legislation and environmental policies (40 hrs)
- Farm Economy and Development Mention
- * Agrarian policies (40 hrs)
 - * Agricultural development (40 hrs)
 - * Commercialization of agricultural products (40 hrs)
 - * Operational research applied to the economy of agricultural production (40 hrs)
 - * Formulation and evaluation of research projects (60 hrs)
 - * Food and agricultural economy (40 hrs)
 - * Food and agriculture companies (40 hrs)
 - * Environmental economy and natural resources principles (40 hrs)
 - * Economic valuation of environmental services (40 hrs)

MASTER`S DEGREE IN HEALTH AND SWINE PRODUCTION

Accreditation: Approved by Ministerial Resolution N° 1907/97 and CONEAU Dictum, session n° 587/12.

Course Director: MS. Arnaldo Ambroggi

Degree: Master in Health and Swine Production

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees: Graduated professionals in Veterinary and Agricultural Sciences and other related careers.

Requirements: It is required to submit the student' s Curriculum Vitae, academic transcript and undergraduate degree.

Objectives:

- To create a space of academic and professional training that arises from new theoretical frameworks, innovative methodologies and technologies, applicable to the field of Health and Swine Production.
- To provide theoretical, instrumental and practical knowledge to allow the formulation and execution of original research projects that involve the advancement of knowledge in the discipline.
- To develop scientifically and technologically trained human resources to promote the transformation and development of productive capacities in the pig sector.
- To promote the student' s critical competence for the permanent search of knowledge.

Graduates profile: At the end of the program, the master' s graduates will be capable of actively participating and influencing the academic and research areas to make diagnoses, proposals and plans of action, advising and designing productive options in private, public

and management areas in the field of health and swine production. They will have the aptitude to perform with criteria and methodologies applicable to case studies, diagnoses of situations, organizational interventions, innovations and change processes that include the factors involved in the possible different courses of action in the swine productive system. They will also be capable of participating or running interdisciplinary projects that allow the generation of new knowledge applied to the region' s reality.

Curriculum:

Required Courses:

Scientific Methodology; Scientific Communication; Statistics Methods; Data analysis and experimental design; Environmental Management; Management, nutrition and feeding; Administration and management of swine companies; Graduate seminars I and II; Conducted research and Internships.

Elective Courses:

Veterinary epidemiology; Confined productive systems; Outdoors productive systems; Swine company' s planning; Management and administration of human resources in swine companies; Prevention of illnesses in the reproduction and maternity stage; Prevention of illnesses in the rearing and termination stages; Diagnosis methodology for swine disease control, among others.

Contact information:

Secretaría de Posgrado Facultad de Agronomía y Veterinaria
Tel: 54-358-4676209 Email: maestriaporcinos@ayv.unrc.edu.ar
Director: MV. MS. Arnaldo Ambrogi - naly@ayv.unrc.edu.ar
Assistant Coordinator: MV. MS. Alicia Carranza - acarranza@ayv.unrc.edu.ar
Website: <http://www.ayv.unrc.edu.ar/ampliar.php?id=14&bd=carreras>

MASTER`S DEGREE IN INNOCUOUSNESS AND FOOD QUALITY

Accreditation: Approved by Ministerial Resolution N°1016/03 and CONEAU Resolution N°300/08.

Course Director: MS. Rubén Davicino

Degree: Master in Innocuousness and Food Quality

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees: The program is directed towards professions related to innocuousness and food quality, particularly towards Veterinarians, Agricultural Engineers, Chemists, Biochemists, Pharmacists and other professionals with graduate degrees related to the course' s theme.

Requirements: The program is open to any professional with an undergraduate degree of at least 4 years in the careers previously mentioned.

Objectives: To train skilled professionals to be scientifically and technologically competent to promote changes and transformations in the agrifood system, especially as trainers and innovators in innocuousness and food quality.

Graduates profile: The master' s degree intends to train a professional capable of:

- Integrally knowing food and the systems that contribute to guaranteeing its innocuousness and quality.
- Promoting the incorporation of the concept of innocuousness and quality in the production and industrialization of food.
- Formulating and executing research and development projects based on the concepts of innocuousness and quality in the different stages of the agrifood system.
- Training professionals in the rules and systems of innocuousness and quality to allow the country' s agro-exporting development according to the international demands.
- Strengthening the food control systems in the local, national, regional and international spheres.
- Enriching undergraduate education in relation to food hygiene and technology.



Curriculum:

Required Courses:

- * Scientific Research Methodology
 - * Statistics and Applied Informatics
 - * Planning and Design of the Thesis Project Workshop
 - * Technical English
 - * Microbial Ecology
 - * Chemistry and Food Biochemistry
 - * General Epidemiology
 - * Health and Foodborne illnesses
 - * The Agrifood Industry
 - * Bromatological Organisms and Food Legislation
 - * Food General Processes
 - * Technology and Food Quality
 - * Food Preservation
 - * Food Innocuousness Systems
 - * Food Toxicology
 - * Hygiene and Plague Control in the Food Industry
 - * Management Systems of Food Quality
- Other activities
- * Seminar of Thesis Project Following Seminars
 - * Integral Systems of Innocuousness and Quality in the Food Industry

Elective Courses

- * Systems applied to the Innocuousness and Quality of Milk
- * Systems applied to the Innocuousness and Quality of Meat
- * Systems applied to the Innocuousness and Quality of Fruit and Vegetable Products and Aromatic Herbs

Contact information:

Secretaría de Postgrado Facultad de
Agronomía y Veterinaria
Tel. 54 058 4676209

E-mail: postgrado@ayv.unrc.edu.ar

Website: www.ayv.unrc.edu.ar

Secretaría de Coordinación de la
Maestría Departamento Salud
Pública

Tel. 54 + 0358 + 4676416

Fax: 54+ 0358 + 4680280

Email: mica@ayv.unrc.edu.ar

MASTER`S DEGREE IN ANIMAL ANATOMY AND PHYSIOLOGY

Accreditation: Approved by Ministerial Resolution N° 688/11 and CONEAU Dictum, Project N° 10,366/09, session 312/09.

Course Director: Dra. Adriana Vivas

Degree: Master in Animal Anatomy and Physiology

Course length: According to resolution 48 art. 10, annex III, the length of the program is of 3 years.

Addressees: Graduated professionals in Veterinary, Biological Sciences or other related sciences.

Requirements:

- Application form filled in with the student' s personal data.
- A letter written by the applicant requesting the admission.
- Two letters of presentation written by professors from the institution the applicant has graduated.
- A copy of the academic transcript of the undergraduate career.
- The applicant' s Curriculum Vitae
- Knowledge of English for reading comprehension.

Objectives:

To broaden, delve, integrate and update the knowledge in the area of Animal Anatomy and Physiology and other related disciplines. To analyze its functional impact and its effects in the medical and clinical disciplines, in animal production and public welfare.

Graduates profile: The graduate will have acquired an advanced knowledge in the field of Animal Anatomy and Physiology and other related disciplines and will be prepared to carry out research activities individually or being part of uni- or multidisciplinary teams. These abilities provide the graduate with an academic level that allows him to take part in scientific, pedagogical and professional activities and training new human resources.

Plan de estudios:

Required Courses

- * Scientific Methodology
- * Biostatistics applied to the Clinical Sciences and other related sciences
- * Applied Regional Anatomy of Bovines
- * Functional Veterinarian Histology
- * Domestic Animal' s Physiology – Module I
- * Domestic Animal' s Physiology – Module II
- * Update in Biology of the development of neuro-endocrinal, maternal-fetal and gonad-germinal systems with veterinarian bio-medical implications.
- * Animal Neurophysiology
- * Annual Seminar

Elective Courses

- * Anatomy applied to the equine Locomotor System
- * Illnesses of the equine Locomotor System
- * Surgical and functional anatomy of dogs
- * Methodology for the study of the immune system and lymphatic organs in Veterinary Medicine

- * Radiological Anatomy
- * Reproductive Physiology in Domestic Animals
- * Nutrition-reproduction interface in ruminants. Some regulation factors.
- * Topics of Cellular and Molecular Biology
- * Fish anatomy and physiology
- * Avian anatomy and physiology
- * Anatomy-physiology of domestic animal' s behaviour
- * Theoretical and practical aspects of Radioimmunoassay (RIA)
- * Tissue and Cell Cultures
- * Embryo, fetal and placental alterations in gestating diabetics
- * Immune-histochemical techniques applied to research in veterinary and bio-medical sciences.
- * Fluorescence microscopy
- * Regulations of Cell proliferation
- * Transmission Electronic Microscopy
- * Phys-pharmacological bases for the rational use of drugs of clinical and productive interest in veterinary medicine
- * Emerging biotechnologies in animal reproduction, transgenesis and mother cells: practical and theoretical aspects
- * Scientific Writing in English

Contact information:

Secretaria de Posgrado - Facultad de Agronomía y Veterinaria
Tel. 54+ 0358 + 4676209

Email: postgrado@ayv.unrc.edu.ar - maestriaanatomia@ayv.unrc.edu.ar

Director: Dra. Adriana Vivas - avivas@ayv.unrc.edu.ar

Application forms: www.ayv.unrc.edu.ar

MASTER`S DEGREE IN EQUINE PRODUCTION

Accreditation: Ministerial Resolution in process, Dossier N° 1554/13. Approved by CONEAU Dictum. Project N° 10,992/11, session 363/11.

Course Director: Dr. Luís Lossino

Degree: Master in Equine Production

Course length: According to resolution 48 art. 10, annex III, the length of the programs is of 3 years.

Addressees: The course is aimed at graduates of national or foreign universities or graduates from non-university higher education in careers of at least 4 years and related to the course' s theme, such as Veterinarians, Agricultural Engineers, Zoo technician Engineers and Biologists.

Requirements: To possess a university degree or a non-university higher education degree of at least 4 years.

Objectives:

- To generate a critical mass of professionals in the area of Equine Production with the ability to propose concrete applicable solutions to the productive sector in real systems.
- To contribute to the training of teachers for the different Departments that integrate the Faculties of this course and the University altogether.
- To enrich the academic and scientific links that exist with other National and International Universities.
- To meet the existing demands in different real productive systems at the national and international levels, responding to them with able trained professionals.
- To develop critical thinking abilities in teachers and professionals, in order to improve their contributions to the development of the country with solid scientific and technical knowledge.
- To integrate professionals from different areas of Equine Production to spaces for debate and reflection in the academic and professional fields.

Graduates Profile: The Master in Equine Production will be a professional formally trained to be competent and work with a critical and suitable attitude

in order to analyze and solve problems in current production systems. He/she will be scientifically and academically prepared to participate in interdisciplinary activities by contributing with useful information to favour the development of the National Equine Production.

Graduates Profile: The graduate of the Master' s Degree in Equine Production will be a professional formally trained to be competent and work with a critical and suitable attitude in order to analyze and solve problems in current production systems. He/she will be scientifically and academically prepared to participate in interdisciplinary activities by contributing with useful information to favour the development of the National Equine Production.

Curriculum

Required Basic Cycle Courses

- * Epistemology and Science Methodology
- * Statistics and Experimental Design
- * Scientific reading and writing in English: Research articles in experimental design
- * Equine Reproductive Biology
- * Equine' s Feeding and Nutrition
- * Equine' s Genetic Improvement

Elective Cycle Courses

- * Reproductive management of Mares
- * Behaviour and production in Equines

- * Reproductive Biotechnologies applied to Equine Production
- * Analysis of Equine Production Systems
- * Equine Medicine and Neonatology
- * Equine Andrology
- * Equine Reproductive Immunology
- * Use and Production of Forage for Equines
- * Sanitary Programs in Equine Production Systems
- * Medical Emergencies in Equine Production Systems
- * Equine Production Systems Economy
- * Design and Management of Facilities for equines
- * Horse breeds of Productive Importance in Argentina

Contact information:

Secretaría de Posgrado Facultad de Agronomía y Veterinaria
Tel: 54-0358-4676209 Email: www.ayv.unrc.edu.ar
Website: <http://www.ayv.unrc.edu.ar/ampliar.php?id=10&bd=carreras>

Faculty of Agronomy and Veterinary Medicine

Specialist Degree Programs



SPECIALIST IN HEALTH AND SWINE PRODUCTION

Accreditation: Approved by Ministerial Resolution N° 1971/97 and CONEAU Resolution N° 577/12.

Course Director: MS. Mercedes Vazquez

Degree: Specialist in Health and Swine Production

Course length: According to resolution 048 art. 10, annex II, the length of the program is of 4 academic semesters.

Addressees: Graduated Veterinarians.

Requirements: For general information, requirements and application forms check <http://www.ayv.unrc.edu.ar/ampliar.php?id=16&bd=carreras>

Objectives: To train skilled human resources scientifically and technologically prepared to promote the transformation and development of swine production capacities and to achieve high efficiency productive systems through obtained knowledge in the field of health and swine production. To promote a critical attitude in the permanent search for knowledge and the methods necessary to achieve the transformations that swine production currently needs. To promote the exchange and development of new work plans with teachers and researchers from other institutions as well as with national and international renowned professionals working privately.

Graduates Profile: The specialist degree aims at providing graduate training of the highest level for the professional performance and development of research projects in the field of swine production. The graduates will possess the knowledge and abilities necessary for the diagnosis, analysis and solution of emerging problems present in the field of swine production. They will also have aptitudes to make an appropriate use of the scientific and technological advances in the field of swine production. The human resources trained by this specialization are expected to generate professional teams aimed at continuing said training and planning research projects that can contribute to the better, more efficient and profitable development of swine systems.

Curriculum

BASIC CYCLE

Required Courses:

Environmental Management
Management

Nutrition and Feeding

Administration and management
of Swine Companies

Other activities:

Graduate Seminar I

Graduate Seminar II

Internships

Conducted studies

ELECTIVE HIGHER CYCLE

Courses:

Veterinary Epidemiology

Confinement Productive Systems

Outdoor Productive Systems

Swine Company Planning

Management and Administration
of Human Resources in Swine
Companies

Immunology

Illness prevention in the Repro-
duction and Maternity stages

Illness prevention in the Rebreed-
ing and Termination stages

Swine Monitoring Systems

Diagnostic methodology for the
control swine illnesses

Contact information:

Secretaría de Posgrado Facultad
de Agronomía y Veterinaria Tel.
54-0358-4676511 Website:

<http://www.ayv.unrc.edu.ar/ampliador.php?id=16&bd=carreras>

Director: M. S. Mercedes Vázquez
mvazquez@ayv.unrc.edu.ar



SPECIALIST IN DOMESTIC RUMINANTS WELFARE

Accreditation: Ministerial Resolution in process, Dossier N° 15232/12 Approved by CONEAU Dictum 27/12/2011, Project N° 10835/10, session N° 346/10.

Course Director: MV. José Giraudó

Degree: Specialist in Domestic Ruminants Welfare

Course length: According to resolution 048 art. 10, annex II, the length of the program is of 4 academic semesters.

Addressees: Veterinarians.

Requirements:

- The undergraduate degree in Veterinary.
- A letter requesting the admission, where the applicant explains his or her reasons for applying and mentions previous professional work and his or her expectations.
- The Academic Board will analyse the requests and publish a list of the admitted people for the corresponding cohort.
- An updated Curriculum vitae

Objectives: To broaden and strengthen the theoretical and practical knowledge that supports the domestic ruminants' welfare, the preservation of the environment and the consumer' s health. To acquire new theoretical and practical knowledge to successfully address the treatment and prevention of illnesses that emerge from the different productive systems.

Graduates Profile:

The program aims at covering the need for specific training for Veteri-

narians that work in bovines' production and welfare. The following are key aspects of the graduates' profile:

-To possess the theoretical and practical knowledge necessary to efficiently address different sanitary problems that the professional may come across.

-To be a change factor in the productive and social fields where the professional may be working.

-To consolidate professional honesty and technical quality as important values.

-To be able to address and solve sanitary problems that may arise in the future in the different bovine, sheep and goat productions.

Curriculum

Required Courses

* Updating about ruminants' immunology and vaccines.

* Methodology for the elaboration and writing of the final paper.

* Statistics applied to animals' welfare.

* Epidemiology and populations clinical evaluation.

* Sampling and remission of samples. General concepts about biosafety. Laboratory diagnoses.

* Macroscopic pathology as a diagnosis tool in the field.

* Infectious, parasitic, metabolic and deficiency diseases of goats.

* Communicable and toxic diseases of sheep.

* Mastitis and quality of milk in cows, sheep and goats.

Seminars and Elective Courses

* Updating seminar on the control and eradication of brucellosis, tuberculosis and paratuberculosis in domestic ruminants.

* Harmful diseases for the reproduction of meat and milk bovines.

* Calf diseases from their birth to weaning.

* Ruminants' toxic diseases.

* Diseases of corral fattening systems.

* Parasitic diseases in bovines of economic importance.

* Metabolic and deficiency diseases in bovines.

* Updating in the most used surgical techniques for bovines, sheep and goats.

* Effluents' treatment in different intensive ruminants productive systems.

Contact information:

Secretaria de Postgrado Facultad de Agronomía y Veterinaria.

Te: 0358-4676209

sanidadrumiantes@ayv.unrc.edu.ar

Med.Vet. José Giraudo jgiraudo@ayv.unrc.edu.ar

SPECIALIST IN DOGS AND CATS MEDICAL CLINIC

Accreditation: Ministerial Resolution in process, Dossier N° 71/13. Approved by CONEAU Dictum, Project N° 10.993/11, session 361/11.

Course Director: Dra. Griselda Gonzales

Degree: Specialist in Dogs and Cats Medical Clinic

Course length: According to resolution 048 art. 10, annex II, the length of the programs is of 4 academic semesters.

Addressees: Veterinarians with degrees obtained from public or private, national or international universities. In the case of an international university, the degree must be framed on in the article 39bis of the Law 25.754 that modifies the Law 24.521 of Higher Education in Argentina and in accordance with the University High Council Resolution N° 082/07.

Requirements: It will be prioritized the admission of graduated professionals with 2 years of practice in Dogs and Cats Medical Clinic.

The candidates must carry out a pre-enrolment in the Academic Unit by filling in a pre-established request form and presenting documentation specified in the General Regulations of Graduate Courses (Régimen de General de Carreras de Posgrado). The must attach a letter where they explain their reasons for applying and course expectations, and their updated Curriculum Vitae where they must include their previous professional work. This information will later be analysed by the course's Academic Board. The candidates must also attach their original undergraduate degree and original ID, a photocopy of them and a 4 by 4 recent photograph.

Objectives:

- To develop and improve the abilities and skills of professionals to solve complex medical and surgical conditions affecting cats and dogs.
- To deepen and update theoretical and practical knowledge related to the surgery and clinical practice of cats and dogs.
- To complement the knowledge necessary for improving their professional development in the field of cats and dogs medical clinic and their performance in the private and public sectors and teaching activities.

- Training and updating professionals in the use of different techniques in complementary and therapeutic diagnosis for the support of clinical practice activities.

Graduates Profile: The program aims at addressing the needs for specific training of professional Veterinarians working in Veterinary Clinic for Small Animals by providing a semi-structured curriculum. Our graduates will be formally trained to work with competence and a critical and suitable attitude to analyse and solve problems. They will also be scientifically and academically prepared to participate in interdisciplinary activities. The following are key aspects of the graduates' profile:

- To possess the theoretical and practical knowledge necessary to efficiently address different problems that the professional may come across in the clinical care of small animals.
- To acquire a general vision of the clinical care of small animals and the need to be permanently updated.
- To favour the graduates' professional performance to allow them to transfer their specialized knowledge in different application areas.
- To make the social commitment of being a change agent in the professional field where the veterinarian will work.

Contact information:

Secretaria de Postgrado Facultad de
Agronomía y Veterinaria

Tel. 0358 4676209

Director: Dra. Griselda González - ggon-
zalez@ayv.unrc.edu.ar

Assistant Coordinator: MV. MS. Adrián
Alcoba aalcoba@ayv.unrc.edu.ar

Website: www.ayv.unrc.edu.ar





Curriculum

Required Courses

- * Methodology for the elaboration and writing of the Final Paper
- * Diagnostic Imaging
- * Complementary Methods for Clinical-pathological Diagnosis
- * Applied Clinical Pharmacology
- * The Clinical Veterinary and Zoonotic Diseases
- * Ethology and Animal Welfare
- * Seminar of Clinical cases

Elective Courses

- * Clinical Cardiology
- * Dogs and Cats Veterinary Endocrinology
- * Dogs and Cats Gastroenterology
- * Dogs and Cats Dermatology
- * Internal Central and Urinary System Diseases
- * Dogs and Cats Reproduction
- * Feline Medicine
- * Dogs and Cats Clinical Neurology
- * Dogs and Cats Clinical Ophthalmology
- * Dogs and Cats Clinical Oncology
- * Surgical Patients and Clinical Surgery
- * Dogs and Cats Emergencies

Faculty of Economic Sciences

Doctoral Degree Programs



DOCTOR OF TERRITORIAL DEVELOPMENT

Accreditation: Approved by Ministerial Resolution N° 904/13 and CO-NEAU Dictum, Project N° 10721/10, session N° 337/10.

Course Director. Dr. Alfredo Mario Baronio

Degree: Doctor of Territorial Development

Course Length: According to resolution 048 art. 6, annex IV, the length of the program is of 5 years.

Addressees: This doctoral degree, which will take place in our faculty, is addressed towards graduated professionals in careers such as Architecture, Agronomy, Political Sciences, Law, Economical Sciences, Geography, History, Sociology, Anthropology and other careers related to Territorial Development of national or foreign universities.

Requirements: In accordance to the admission regulations established by the University High Council Resolution N° 082/07 in the annex I, arts. 2 and 3, the candidate must fill a pre-application form in the Graduate Studies Department of the Faculty of Economic Sciences (UNRC). The pre-application form must be filled with the candidate' s full name and must have attached the following documents:

- a) The Academic Transcript of the Undergraduate course and certificates of graduate courses, if any. In the later case, a copy of the thesis summary must be attached.
- b) A work plan of no more than 5 pages, written in accordance to the regulations established by CONICET for its scholarship holders.
- c) The candidate' s Curriculum vitae.
- d) A note from the Director and Co-Director, if there was one, in which they declare their knowledge of the thesis project and the acceptance of the direction (and co-direction) of the thesis.

The Academic Board will evaluate the academic background of the applicants, following the regulations established by the previously mentioned resolution in the annex I, art. 4, and will proceed to communicate their final decision regarding their admission. Only then the applicants will be able to assist to the courses and seminars, in particular, the Research Seminar that will facilitate the student's writing of their Thesis.

Objectives: To train human resources with the ability to conduct research on the dimensions of territorial development, with a critical and interdisciplinary approach, in order to expand their aptitudes to produce new analytical-diagnostic and propositional perspectives.

Graduates Profile:

- To possess a critical mind that allows them to work as an autonomous researcher in the different areas of territorial development.
- To be academically competent to contribute to the progress of Territorial Development by making contributions to theoretical and applied research and taking into consideration the specific circumstances of the Latin-American reality.
- To possess the necessary abilities to intervene in the design, execution and evaluation of policies and planning processes related to Territorial Development.
- To have the required skills to work in interdisciplinary teams and make specific contributions for the solution of problems.
- The graduate has the ability and disposition to teach at the graduate and undergraduate levels.

Contact Information

Secretaría de Posgrado y Cooperación Internacional
Facultad de Ciencias Económicas (UNRC). Cub. 0,
Tel.: +54 (358) 4676275 Director: Alfredo Baronio
E-mail: mconiglio@fce.unrc.edu.ar ; abaronio@fce.unrc.edu.ar
URL: <http://www.eco.unrc.edu.ar>



Curriculum

BASIC MODULE

- Social Sciences Epistemology – Qualitative Methods in Social Sciences
- Production and Treatment of Research Data
- Development and Territory I
- Development and Territory II
- Elective Courses (1)
- Research Seminar

THEMATIC MODULE: TERRITORY, INNOVATION AND ACCUMULATION

- Innovation Economy
- Science, Technology and Innovation Planning and Managing
- Elective Courses (2)

THEMATIC MODULE: TERRITORY, CIVIL SOCIETY AND THE STATE

- Institutions, Power and Territorial Development: A Historic Perspective
- Decentralization and Territorial Development

- Elective Courses (3)

THEMATIC MODULE: TERRITORY AND SOCIO-ENVIRONMENTAL SYSTEMS

- Environmental restrictions to territorial development: theoretical standpoints
- Environmental Management
- Elective Courses (4)

THESIS MODULE

- Thesis Seminar I: Thesis Work plan
- Thesis Seminar II
- Thesis Seminar III
- Thesis Seminar IV
- Other Activities (5)
- Thesis

Faculty of Economic Sciences

Master' s Degrees Programs



MASTER`S DEGREE IN TERRITORIAL DEVELOPMENT AND MANAGEMENT

Accreditation: Ministerial Resolution in process, Dossier N° 108535/13. Approved by CONEAU Resolution N° 698/10.

General Course Director: Carlos de Mattos

Río Cuarto` s H.Q. Director: Dr. María Florencia Granato

Degree: Master in Territorial Development and Management

Course Length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees: The program is specially addressed towards graduated professionals working in public fields, business and non-governmental institutions, as well as potential agents of local and regional development.

Requirements: To possess a graduate or undergraduate degree from a National or International University in Architecture, Agronomy, Political Sciences, Law, Economic Sciences, Geography, Sociology, Anthropology and other careers related to territorial development.

The candidate must present:

- * An Application Form
- * A complete Curriculum vitae
- * The original university degree and its photocopy
- * A 4 x 4 updated photo
- * The guarantee of two (2) personal references.

Objectives:

The program aims at training graduates form careers related to Social Sciences with professional and academic excellence to work, advice and research in topics related to territorial development and management in municipal, regional and provincial settings.

The most salient objectives are:

- * To contribute to the building of analytical abilities for strengthening the managing and generation of strategic competences at the level of social actors with a territorial base (companies, communities, etc.) in order to link the

economic, social, political, environmental and cultural initiatives with the local and regional development process.

* To build cognitive competences at the theoretical, methodological and operative level for the research, design and managing of policies, programs and projects aimed at regional and local territorial development

* To train professionals who can contribute to the strengthening of institutions, the modernization of local governments and the association of localities, communities and regions for their own sustainable development.

* To consolidate, from an interdisciplinary perspective, the training of teachers and researchers who are focused on the problems of territorial development.

Graduates Profile:

The Master's degree meets the real demands of municipalities and other governmental entities, within the scope of the requirements posed by the decentralization and modernization of the local and regional management. Likewise, it addresses the increasing need for flexible professionals with the ability to perform a variety of roles in which the abilities related to interpersonal relationships and communication acquire a strategic importance.

The program aims at generating greater quantity and quality of critical mass to contribute to the process of territorial development, particularly of professionals related to public management, teaching, research and consulting.

The Master's graduates will be able to act as: Consultants and advisors in public or private organizations related to projects of territorial development; Decision-makers responsible for the design and implementation of local/regional development policies; Presenters and intermediaries in planning and territorial strategic managing processes; Researchers and teachers oriented towards the problems in global, regional and local development processes.

As a consequence, the graduates' work insertion alternatives include: local governments, ministries and public national or provincial organizations, non-governmental development organizations, territorial development agencies, local and regional business associations, the academic world and private consulting

Curriculum:

MODULE I: Economy, society and territory

101. The structuring and functioning of economy

102. Territorial structure and dynamics

103. Social structure

104. Local identities and social change

105. Social institutions

106. Development theory

MODULE II: Territorial analysis instruments

201. Qualitative and qualitative research methods

202. Regional and municipal systems of information

203. Identification, formation and evaluation of investment programs and projects

MODULE III: Institutional setting, development strategies and policies

301. Legal institutions and State organization

302. Infrastructure and public services

303. Globalization and territory decentralization and organization

304. Environmental management

305. Local development policies and instruments

MODULE IV: Mentions

IV. A. Mention: Local development management

401. A. Local productive systems

402. A. Promotion of productive activities and local employment

403. A. Workshop: Promotion of local development

IV. B. Mention: Municipal management

401. B. Financial administration and governmental accounting

402. B. Municipal law

403. B. Workshop: Strategic planning for municipal management

MODULE V: Thesis

501. Methodology seminar

502. Thesis workshop

Thesis

Contact information

Secretaría de Posgrado

Facultad de Ciencias Económicas

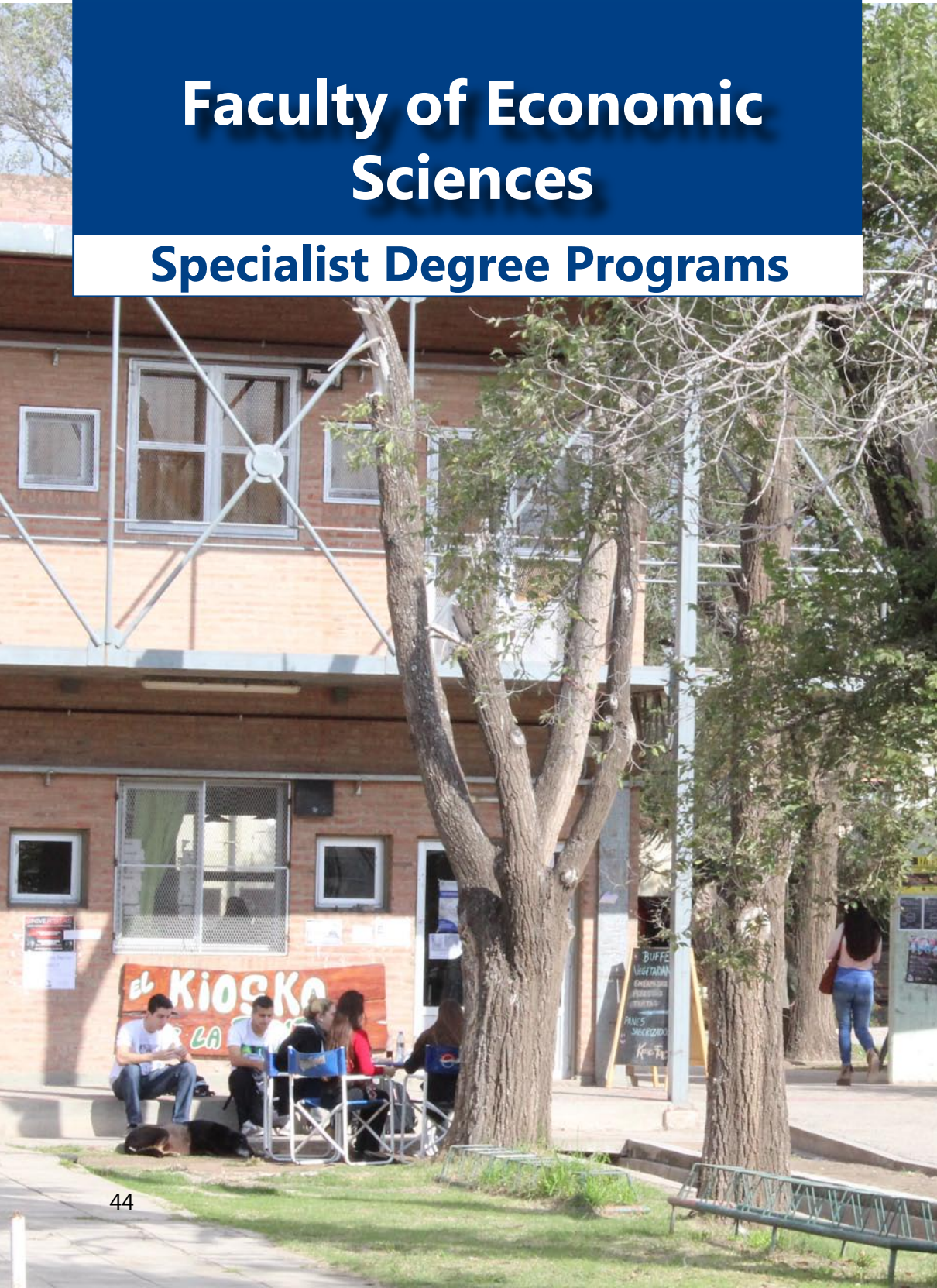
Tel: + 54 (358) 4676450 /275

Email: mconiglio@eco.unrc.edu.ar

Website: <http://www.eco.unrc.edu.ar/postgrado>

Faculty of Economic Sciences

Specialist Degree Programs



SPECIALIST IN BANKRUPTCY TRUSTEE

Accreditation: Approved by Ministerial Resolution N° 097/03 and CONEAU Resolution N° 714/10.

Director: SPC Eduardo Máximo Nieto (National University of Tucumán)

Assistant Coordinator: SPC Nélida Abraham

Degree: Specialist in Bankruptcy Trustee

Course Length: According to resolution 048 art. 10, annex II, the length of the program is of 4 academic semesters.

Addressees: Graduated professionals in Public Accounting and other interested professionals from private, public, foreign or national universities. Other professionals can take the individual courses only under the consideration of the course's Academic Board.

Requirements: An undergraduate degree in the career of Public Accounting of a length of 5 (five) years provided by a national or foreign university.

Other requirements: In every case, the candidates must present a request for admission in which they explain their reasons for applying, their updated Curriculum Vitae, an account of their work experience and the knowledge they expect to acquire during the course, all of which will be analyzed by the Academic Board. In addition, they must attach their original degree title and their original identity document and their respective photocopies as well as an updated 4x4 colour photograph.

Objectives: To provide the theoretical information and the development of Bankruptcy Laws necessary for the student to understand and manage financial crises, the auditing of bankrupt companies and the judicial processing of bankruptcy proceedings. The course makes emphasis in companies in difficulties, credit verifying processes and the general assessment of these companies.

Graduates Profile: The promulgation of the Law 19.551 and its modifications define the specific professional responsibilities of a Public Accountant in relation to Insolvency Proceedings. The reform corresponding to the Law 22.917

Art. 27 incise 1, introduced the career Specialization in Receivership in Insolvency Proceedings which aims at providing technical and doctrinaire training to efficiently perform the functions of an Insolvency Receiver, as stated by the Law 24.522 in its Art. 253 incise 1.

The program aims at training and updating professionals of the Economic Sciences.

The graduate will be qualified to: Practice the profession of Receiver in Insolvency Proceedings, Reorganization Proceedings and Bankruptcies in the judicial sphere.

Curriculum:

- * Management of Companies in crisis
- * General Procedural and Insolvency Law
- * Insolvency Law I
- * Insolvency Law II
- * Labour and Tax Law
- * Insolvency Audit
- * Insolvency Professional Practice I
- * Insolvency Professional Practice II
- * Final paper Workshop

Contact information

Secretaría de Posgrado
y Cooperación Internacional
Facultad de Ciencias Económicas
Cub. 0,

Tel.: +54 (358) 4676275 -
4676459

mconiglio@fce.unrc.edu.ar
nany@fce.unrc.edu.ar
<http://www.eco.unrc.edu.ar>

SPECIALIST IN STRATEGIC MANAGEMENT OF HUMAN RESOURCES

Accreditation: Approved by Ministerial Resolution N° 582/09 and CONEAU Dictum, project N° 10.078/07, session 260/07.

Course Director: Prof. Carlos Daniel Rabago (University of the Center of the Province of Buenos Aires -Tandil)

Assistant Coordinator: Esp. Marcelo Marescalchi

Degree: Specialist in Strategic Management of Human Resources

Course Length: According to resolution 48 art. 10, annex II, the length of the program is of 4 academic semesters.

Addressees: The program is addressed towards professionals with an undergraduate degree interested in furthering their knowledge in Human Resources Management through intensive training. It is also addressed towards: Graduates in other disciplines interested in the management of human relationships, who wish to make an incursion in different kinds of organizations, or consulting; Professionals interested in broadening their organizational strategies by receiving a kind of training that allows them to analyze and plan changes through actions over the context, with a proactive attitude from different areas of knowledge.

Requirements:

- a) A University degree provided by a national or foreign university corresponding to a career of 4 (four) years.
- b) An application form where the candidates must explain their reasons for applying, an updated curriculum vitae, an account of their professional work experience and their expectations for the course. All the information will be analyzed by the career's Academic Board. In addition, they must attach their original degree title and their original identity document and their respective photocopies as well as an updated 4x4 colour photograph.

Objectives:

To work on the principle that modern managing poses challenges that demand a perspective which considers Human Resources as a determining com-

petitive advantage for the success of businesses and organizations, the course aims at providing tools for the improvement of the development and welfare of the people that work in them.

Graduates profile:

The specialist degree aims at meeting the needs of professionals graduated in different disciplines that have started their careers in the field of Human Resources or wish to work in it, committed as agents of organizational change, It is oriented towards graduated professionals with degrees related to the managing of human resources in different kinds of organizations, particularly those responsible of change processes and reengineering. It also includes professionals who are part of consultant' s offices on the same topic.

Curriculum

- * Strategic Managing
- * Strategic Management of Human Resources
- * Organizational Behaviour
- * Employment and Selection Processes
- * Organizational Learning
- * Leadership and work teams
- * Individual Labour Law
- * Development of Human Resources
- * Compensation Management
- * Management of Change Processes in Organizations
- * Methodology for the planning and writing of the final paper
- * Collective Labour Law

- * Social and ethical responsibility in businesses
- * Prevention, Safety and occupational health
- * Technology and management of Human Resources
- * Labour Economy

Contact Information

Secretaría de Posgrado
y Cooperación Internacional
Facultad de Ciencias Económicas
Cub. 0,
Tel.: +54 (358) 4676275 - 4676459
E-mail: mconiglio@fce.unrc.edu.ar ;
nany@fce.unrc.edu.ar
Website: <http://www.eco.unrc.edu.ar>



SPECIALIST IN TAXATION

Accreditation: Approved by Ministerial Resolution N° 804/04 and CO-NEAU Resolution N° 380/09.

Director: SPC Ernesto Carlos Celdeiro (University of Buenos Aires)

Assistant Coordinator: SPC Graciela Bellandi

Degree: Specialist in Taxation

Course length: According to resolution 224/08 art. 10, the length of the program is of 4 academic semesters.

Addressees: The program aims at training and updating professionals in Economic Sciences and Law on the aspects related to Taxation in the National, Provincial and Municipal fields and with different economic communities.

-It implies to train them in Tax Law and finances and in the implementation of taxation laws, for them to access different official levels of public administration in different fields of application of the private activity.

-It trains students to interpret and apply taxation laws with different degrees of complexity to solve of problems.

Requirements:

The applicants are required to present their university degree provided by a national or foreign university corresponding to a career of 5 (five) years in Economic Sciences and Law including Public Accountants, Bachelors in Business Administration, Bachelors in Economy and Lawyers.

Other requisites: Lawyers must have passed the course on Taxation Accounting before applying.

Objectives: The objectives are to train skilled professionals able to act in the field of tax policy in an interdisciplinary framework, to transform

them in analysts of tax basis in accordance with the fiscal policies in order to obtain resources for the State oriented towards influencing individuals with economic and/or social purposes and not merely collecting, to train able professionals to work in private corporations, research and teaching at the university level.

Graduates profile: The specialist degree meets the real demands of particulars, Associations and professional Councils of Economic Sciences and Lawyers regarding the current requirements of professional training. In the local society and the areas it influences, an increasing individual and institutional demand can be observed in subjects related to taxation. The program aims at filling a void in the local educational system of the UNRC allowing the generation of a greater quantity and quality of critical mass with a higher education.

Curriculum

- * Public Sector Economics
- * Taxation Laws
- * Tax Administration
- * Tax Analysis I
- * Taxation Proceedings
- * Local, Provincial and Municipal Taxes
- * Tax Analysis II
- * Comparative Tax Systems. Regional Integration.
- * Research Methodology
- * Thesis Planning Workshop

information

Secretaría de Posgrado
y Cooperación Internacional
Facultad de Ciencias Económicas
Cub. 0,

Tel.: +54 (358) 4676275 - 4676459
E-mail: mconiglio@fce.unrc.edu.ar ;
nany@fce.unrc.edu.ar
Website: <http://www.eco.unrc.edu.ar>



SPECIALIST IN MANAGEMENT OF SMALL AND MEDIUM-SIZE ENTERPRISES

Accreditation: Approved by Ministerial Resolution N° 986/13 and CONEAU Dictum, Project N° 10,722/10, session 337/10.

Course Director: SPC Jorge Amadeo Franco (University of Buenos Aires)

Assistant Coordinator: MBA. Edgardo Verhaeghe

Degree: Specialist in Management of Small and Medium-size Enterprises

Course length: According to resolution 048 art. 10, annex II, the length of the program is of 4 academic semesters.

Addressees: It is aimed at graduated professionals of Economic Sciences careers with a curriculum of at least five years. Those whose career is not related to Economic Sciences will have to pass two levelling courses, one of Accounting and the other of Administration, 20 hours each.

Requirements:

In accordance to the current regulations in the UNRC:

a) Any graduate with a University Degree provided by a National University and corresponding to a career of 5 (five) years.

b) A duly completed application form and a note where the candidates must explain their reasons for applying, an updated curriculum vitae, an account of their professional work experience and their expectations for the course. All the information will be analyzed by the career's Academic Board. In addition, they must attach their original degree title and their original identity document and their respective photocopies as well as an updated 4x4 colour photograph, and any other documents the Academic Board would consider necessary..

Objectives: To provide the specialized knowledge in the management of SMEs (Small and Medium-size Enterprises) necessary in the training of professionals interested in participating in the transformation processes of regional enterprises in order to adapt to the survival and development requirements of today's competitive economy which requires thinking about the client and its need, learning to differentiate, associate themselves and competing.

Graduates Profile: The graduate will acquire a training specialized in the critical analysis of SMEs' problems in order to conceive mechanisms that allow the implementation and operation of strategies for change. This will allow him not only to survive and grow, but also to make greater economic and social contributions to the economy of the region and the country.

Curriculum

The curriculum is integrated by the following subjects:

"Business environment" ,
"SMEs' Legal aspects" ,
"SMEs' planning, managing and control" ,
"Family SMEs management" ,
"SMEs' Human Resources management" ,
"Operations Managing" ,
"Commercialization" ,
" Taxation" ,
"Financial administration" ,
"International business management" ,

"Strategic direction" ,
"Social responsibility and sustainable development in SMEs" ,
"Integral final paper development workshop" .

Levelling courses in accounting and administration will also be taught.

Contact information

Secretaría de Posgrado y Cooperación
Internacional Facultad de Ciencias
Económicas Cub. 0,
Tel.: +54 (358) 4676275 - 4676459
E-mail: mconiglio@fce.unrc.edu.ar ;
nany@fce.unrc.edu.ar
Website: <http://www.eco.unrc.edu.ar>



Faculty of Exact, Physicochemical and Natural Sciences

Doctoral Degree Programs



DOCTOR OF BIOLOGICAL SCIENCES

Accreditation: Approved by Ministerial Resolution N° 2036/84 and CONEAU Resolution N° 737/13.

Course Director: Dra. Miriam García Etcheverry

Degree: Doctor in Biological Sciences

Course length: According to resolution 048 art. 6, annex IV, the length of the program is of 5 years.

Addressees: : Graduate professionals from undergraduate careers related to the specialization of the doctorate (Biologists, Microbiologists, Agronomists, among others) with a length of at least 4 years, or with other related Master's Degrees.

Requirements:

The application form must include:

- a) The academic transcript.
- b) Title of the chosen topic.
- c) A concise report about the current state of knowledge on the subject, including a list of the most important specific bibliography.
- d) The thesis project, including the formulation of objectives and research plan.
- e) The specialization program the applicant expects to carry out during the development of it thesis project.
- f) A detailed list of the available or requested resources to organizations that promote scientific research.
- g) A CV.
- h) A note from the thesis director in which he declares his knowledge of the project and accepts to direct it and its CV.
- i) A declaration of conformity from the Academic Unit where the applicant will develop its activities.

Objectives:

-To promote scientific research and the development of new technologies in

the Biological Sciences.

-To encourage the training of researchers in the biological fields who have improved their development in the UNRC and have acquired a level of scientific and technological excellence.

- To allow the development of the potentiality between teacher and researcher to be transferred to the training of undergraduate and graduate students.

- To train students with strong basic and applied capabilities to provide counselling to solve problems related to the biotechnological field, preservation and management of natural resources, preservation of the environment, human health and quality of life.

- To promote the generation of knowledge in the three levels of integration of living organisms: molecular, biological and behavioural (ethological), taking into consideration national and international aspects and regulations.

Curriculum:

The doctorate degree is a personalized nature. The course' s total number of hours is 1600, distributed in courses, seminars, other academic activities and the Final Thesis Project.

Graduates profile:

The graduates will possess:

A critical spirit and sense of responsibility that will allow them to carry out activities as autonomous and group researchers.

The necessary skills to teach undergraduate and graduate courses.

The ability to plan and conduct research in the different fields of the biological sciences as they are conceived today: Molecular Biology, Comparative Biology, Evolutionary Biology and Integrative Biology.

The necessary skills to work in research and development of biotechnological industries related to the processing of food and pharmaceutical products, in relation to the agricultural and livestock activities (including animal and vegetal welfare) and the conservation and development of flora and fauna (biological aspects of natural resources).

The ability to organize and evaluate projects, reports and human resources.

Contact Information:

Facultad de Ciencias Exactas, Físico-Químicas
y Naturales (UNRC). Tel: 54 + 0358 + 4676431

Website: www.exa.unrc.edu.ar

DOCTOR OF CHEMICAL SCIENCES

Accreditation: Approved by Ministerial Resolution N° 2036/84 and CONEAU Resolution N° 704/13.

Course Director: Dr. Héctor Fernández

Degree: Doctor of Chemical Sciences

Course length: According to resolution 048 art. 6, annex IV, the length of the program is of 5 years.

Addressees: Graduate professionals of Chemistry careers, such as Bachelor in Chemical Sciences, Chemical Engineers, Biochemists and other related careers.

Requirements: The program will admit graduated professionals of Chemistry careers with a curriculum of at least five years or other related Master degrees. The Academic Board will establish the necessary levelling out requirements.

Objectives:

- To promote the training of researchers in the field of Chemistry who have achieved a good level of development in the National University of Rio Cuarto.
- To train human resources with an academic level in accordance with the scientific and technological development of the discipline.
- To develop the teacher-researcher potentiality of the graduates of this university.
- To train graduates for teaching at the graduate and undergraduate level.
- To provide graduates with a strong basic and applied training that will allow them to act as consultant to solve problems in the academic and technological worlds.

Curriculum: The doctoral degree has a personalized nature. The program's total number of hours is 1600, distributed in courses, seminars, other academic activities and the Final Thesis Project.

Graduates profile: The graduates will develop a critical spirit and sense of responsibility. They will possess the skills necessary to work in interdisciplinary teams, teach undergraduate and graduate courses, and to plan and conduct research in basic and applied chemistry. They will also have acquired the abilities to in research and development of chemical industries as well as organize and evaluate projects, reports and human resources.

Contact information:

Secretaría de Postgrado Facultad
de Ciencias Exactas, Físico-Químicas y Naturales
Tel: 54 (0358) 4676431 Course Director: Dr. Héctor Fernández ,
hfernandez@exa.unrc.edu.ar; secpostgrado@exa.unrc.edu.ar
Website: www.exa.unrc.edu.ar



DOCTOR OF GEOLOGICAL SCIENCES

Accreditation: Approved by Ministerial Resolution N° 1581/13 and CONEAU Resolution N° 573/12.

Course Director: Dr. Lucio Pinotti

Degree: Dr. in Geological Sciences

Course length: According to resolution 048 art. 6, annex IV, the length of the program is of 5 years.

Addressees: The Doctorate in Geological Sciences can be taken by graduate professionals of careers related to the Earth, Water and Environmental Sciences, such as Bachelors in Geology, Geologists and other related sciences.

Requirements: The Doctorate can be taken by graduate professionals from undergraduate careers related to the Earth Sciences, or who have master' s degrees with a similar orientation. The Academic Board will establish the necessary levelling out requirements.

Objectives:

- To promote the training of researchers in the fields of geology who have acquired a level of excellence in the department.
- To train human resources with an academic level in accordance to the development of the discipline and to strengthen the training of professionals in the Geological Sciences and other related fields for their integration to the academic, technological and socio-productive worlds.
- To prepare them to teach graduate and undergraduate courses.

Curriculum:

The doctorate has a personalized nature. The course' s total number

of hours is 1600, distributed in courses, seminars, other academic activities and the Final Thesis Project.

Graduates profile:

The graduates will develop a critical and creative spirit and will be able to contribute to the development of basic and applied research in disciplines related to the Sciences of the Earth. They will also have acquired the ability to work in interdisciplinary teams, acquire experience and training to teach graduate and undergraduate courses.

Contact Information :

Secretaría de PostgradoFacultad de Ciencias Exactas,
Físico-Químicas y Naturales - Tel: 54 (0358) 4676431
Email: secpostgrado@exa.unrc.edu.ar - Website: www.exa.unrc.edu.ar



Faculty of Exact, Physicochemical and Natural Sciences

Masters' Degrees Programs



MASTER`S DEGREE IN APPLIED MATHEMATICS

Accreditation: Approved by Ministerial Resolution N° 809/12 and CONEAU Dictum, Project N° 10,585/10, session 322/10.

Course Director: Dr. Fernando Mazzone

Degree: Master in Applied Mathematics

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addresses: Graduated professionals of national or foreign universities from careers such as Mathematics, Physics, Engineering, Economy and other related ones.

Requirements: The requirements are those established by the University High Council Resolution N° 224/08. The course can be taken by professionals graduated with the degree of Bachelor in Mathematics. In the case of not possessing that degree, the Academic Board, according to the rules established by the previously mentioned resolution, can request a levelling course provided by the Mathematics Department of the FACEFQyN-UNRC.

Objectives:

- To strengthen the training of mathematics teachers in the UNRC and its areas of influence.
- To train human resources with the skills necessary to conduct research in mathematics to collaborate with interdisciplinary scientific groups.

Graduates profile: The graduates from the Master' s Degree in Applied Mathematics will have acquired:

1. A solid knowledge in the areas considered as basic: Linear Algebra, Functional Analysis, Probability and Differential Equations.
2. A broad and updated knowledge in a specific area, such as: Differential Equations, Approximation Theory, Statistics, Numerical Methods and Algebra.
3. Prepared to conduct research in the area of their interest.
4. Trained from an interdisciplinary perspective.

Plan de estudios:

First Year

Functional Analysis
Numerical Methods I
Partial Differential Equations I
Probability

Second Year

Elective courses (3)
Research

Third Year

Final Thesis

Contact Information:

Secretaría de Posgrado Facultad de Ciencias Exactas, Físico-Químicas y Naturales. Tel: 54 (0358) 4676431
Director: Dr. Fernando Mazzone, Tel: 54 (0358) 4676228, fmazzone@exa.unrc.edu.ar
Email: secpostgrado@exa.unrc.edu.ar
Website: <http://www.exa.unrc.edu.ar/page/?actionId=519> - <http://dmat.exa.unrc.edu.ar/Maestria>

MASTER`S DEGREE IN BIOTECHNOLOGY

MICROBIAL AND VEGETAL ORIENTATION

Accreditation: Approved by Ministerial Resolution N° 726/98 and CONEAU Resolution N° 087/12.

Course Director: Dra. Cristina Bogni

Degree: Master in Biotechnology

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees: Graduate professionals of careers related to Biotechnology: Microbiologists, Biologists, Chemists, Biochemists, and Agricultural Engineers, among others.

Requirements: To be a graduate from a national or foreign University of a career of at least 5 years related to the following areas: Microbiology, Biology, Chemistry, Biochemistry, Veterinary Medicine, Chemical Engineering, Agronomy and other related areas.

Objectives: The program`s main objective is to train professionals in the area of vegetal and microbial biotechnology to address the need for growth of the region and country in its socio-productive as well as educational sectors.

Graduates profile:

The program curriculum is designed to provide its graduates with updated knowledge in molecular biology, genetics, tissue culture and micropropagation, that will enable them to work in the production of goods and services. In addition, it is oriented towards completing the updating and training of University teachers to modernize and provide a biotechnological perspective to the undergraduate courses in the area of Biology, Microbiology, Agronomy and Engineering, in order to improve undergraduate teaching and open possibilities in the areas of link between agriculture and agrifood industries.

Curriculum:

Required Courses:

- Molecular Biology.
- Microorganisms genetic manipulation and basic genetic engineering.
- Quality control and product purification.
- Synthesis and purification of biomolecules; purification, sequencing and chemical modification of peptides and proteins
- PCR and its applications.
- Bioreactors and scale changes.
- Eukaryotes and transgenic plants genetic engineering.
- Biotechnology' s economic and legal aspects.

Elective Courses:

- Design of experiments in biology. 40 hrs, 2 credits.
- Plant-microorganism Interaction. 40 hrs, 2 credits.
- Effluent treatment. 40 hrs, 2 credits.
- Introduction to bioinformatics and genome experiment analysis. 40 hrs, 2 credits.
- Bioinformatic tools applied to the analysis of nucleic acids and

proteins. 40 hrs, 2 credits.

- Biotechnological applications in the prevention of diseases in animals and humans. 40 hrs, 2 credits.
- Bioethics. 40 hrs, 2 credits.
- Biotechnological applications of lactic bacteria in human and animal health. 40 hrs, 2 credits.
- Prevention strategies for aflatoxins in storage agro-ecosystems. 40 hrs, 2 credits.
- Electrophoresis in pulsating fields. 40 hrs, 2 credits.
- Research Seminars.
- Update in immune-intervention strategies in infectious diseases.
- Biotechnological applications of non-pathogenic microorganisms.
- Final Thesis

Contact Information

Secretaría de Posgrado
Facultad de Ciencias Exactas,
Físico-Químicas y Naturales
Tel: 54 (0358) 4676431
Director: Dra. Cristina Bogni,
Tel: 54 (0358) 4676238.
cbogni@exa.unrc.edu.ar
secpostgrado@exa.unrc.edu.ar
Website: www.exa.unrc.edu.ar

Faculty of Humanities

Doctoral Degree Programs



DOCTOR OF SOCIAL SCIENCES

Accreditation: Approved by Ministerial Resolution N° 1385/12 and CONEAU Dictum, Project N° 10567/10, session 331/10.

Course Director: Dra. Mabel Grillo

Degree: Doctor of Social Sciences

Course length: According to resolution 048 art. 6, annex IV, the length of the program is of 5 years.

Addressees: The Doctoral Degree in Social Sciences is directed towards graduated professionals in Social Sciences or other related careers of a curriculum of at least five years from national or foreign universities. It is also directed towards professionals with master degrees who wish to strengthen their training.

Requirements: The main requirement to apply is to have a thesis project guaranteed by a director and/or co director. The presentation format is available at www.hum.unrc.edu.ar.

Objectives: The Doctorate is oriented towards the academic training of students with the aim of conducting scientific research in the Social Sciences and related fields or problem areas. It also trains students for providing counsel and participating in the making of diagnoses as well as the evaluation and design of public policies.

Graduates profile: The graduates profile is of a professional prepared to understand the social reality from different disciplinary perspectives and committed with his/her integration; with a mastery of the skills necessary to identify social problems and transform them into research problems to evaluate the best action courses for each case.



Curriculum:

The doctoral degree is of a personalized nature. It requires the student to obtain 30 credits and to write a Doctoral Thesis (50 credits).

The regulations (available at www.hum.unrc.edu.ar) establish that the applicants must propose a Curriculum for the course, which will be taken into account at the moment of their definitive enrolment. This proposal should be design to be developed in a period of one to three years.

In addition to the credits considered in the Curriculum approved by the Academic Board, all applicants must pass a comprehensive foreign language test in the first year of the proposed curriculum.

The 30 required credits must be distributed as follows:

- 10 credits in courses and seminars for Social Theories (Sociology, Anthropology, History, Economy, Politics).
- 10 credits in courses and seminars for Epistemology and Social Research Methodology.
- 10 credits for themes specific to the thesis subjects.

Contact Information:

Secretaría de Posgrado
Facultad de Ciencias Humanas
Oficina 21 Pabellón "G"
Tel: 54 (0358) 4676597 - Email:
doctoradosoc@hum.unrc.edu.ar

Faculty of Humanities

Masters' Degree Program



MASTER`S DEGREE IN SOCIAL SCIENCES

Accreditation: Approved by Ministerial Resolution N° 741/04 and CO-NEAU Resolution N° 507/09.

Course Director: Dra. Celia Cristina Basconzuelo

Degree: Master in Social Sciences

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees: The course is directed towards graduated professionals in related sciences who wish to update and deepen their theoretical reflection and research in the different disciplinary perspectives of the social sciences.

Requirements: It is required to possess an undergraduate degree provided by national or foreign universities in careers related to this courses theme. In addition, the applicants must provide certifications of their knowledge of the English language at a reading-comprehension level. The application form must include a form in where the applicant states the subject of its thesis projects.

Objectives: To train students to formulate social research problems, evaluating the best solution options for each case and to offer tools for theoretical analysis and professional practice to work in different institutional fields as consultants, planners, etc.

Graduates Profile: Graduates from the Master`s Degree in Social Sciences will be prepared to integrate multiple perspectives coming from the different social sciences; to teach and conduct research at a higher level; to develop a professional practice in different institutional fields; to work as a consultant, adviser, planner, etc.

Curriculum:

(it must add up to a total of 45 credits)

A. MANDATORY COURSES:

A. 1. Basic Training Cycle (16 credits)

- Social Sciences Epistemology
- Economy
- Classic Sociologic Theories
- Contemporary Sociologic Theories
- Political Theories
- History and Social Sciences
- Sociocultural Anthropology

A.2. Research Training Cycle (11 credits)

- Social Research Methodologies (3 credits).
- Three (3) Thesis Workshops (8 credits).

B. ELECTIVE COURSES: (8 credits)

The themes developed in the Seminars correspond to the different disciplinary areas and respond to the thesis projects.

The courses are: Ethnography, State and Citizenship, Regional History, Human Geography, Educational Policies, Social Discourse, Communication and Politics, Communication and regional transformations, Social theory and collective action.

C. MASTER' S THESIS (10 credits)

Contact Information:

Secretaría de Posgrado
Facultad de Ciencias Humanas
Tel.: +54 (358) 4676467 - Emails:
cienciasocialesmaestria@yahoo.com.ar ;
coordinamaestria@gmail.com
Website: www.unrc.org.ar/insti/postgrados05.html

MASTER'S DEGREE IN ENGLISH

ANGLO-AMERICAN LITERATURE ORIENTATION

Accreditation: Approved by Ministerial Resolution N° 958/01 and CO-NEAU Resolution N° 275/07.

Course Director: M.A. Iliana Martínez

Degree: Master in English, oriented towards Anglo-American Literature.

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees:

- Teachers of English
- Bachelors in English
- English Translators

Requirements:

- A University or tertiary degree (of at least four years)
- An updated Curriculum Vitae
- A validated Academic Transcript
- A letter stating the reasons for applying to the Master's course.

Objectives: To further the students' theoretical knowledge of Applied Linguistics necessary for knowledge production in the field.

Graduates Profile: Graduates from the Master's program will have built updated theoretical-conceptual and methodological knowledge in their specialization area. They will be prepared to conduct research on specific subjects by applying scientific methodologies, to solve problems inherent to the socio-educational reality and to develop innovative projects. The graduates will also be able to reflect on the individual and socio-political sense and projection of their function as Teachers and Researchers as well as being able to assume an axiological scale that prioritizes ethical values.

Curriculum:

- Course: Text Grammar
- Course: Pragmatics
- Course: Discourse Analysis
- Course: Literary Theory
- Course: Literary Criticism
- Course: Post-war North American Literature: From the Counter-culture to Postmodernism
- Seminar: Literary Research Methodology
- Seminar: Comparative Literature
- Seminar: North American Literature: Metafiction

- Seminar: Anglo American Contemporary Poetry
- Seminar: Ethnic Literature of the United States
- Seminar: Anglo American Feminine Narrations of the last three decades

Contact Information:

Secretaría de Posgrado
Facultad de Ciencias Humanas
Director: M.A. Iliana Martínez
Tel. (0358) 4676576. Fax: 4676464.
E-mail:
maestriainglesunrc@hum.unrc.edu.ar

MASTER`S DEGREE IN ENGLISH

APPLIED LINGUISTICS ORIENTATION

Accreditation: Approved by Ministerial Resolution N° 958/01 and CONEAU Resolution N° 274/07.

Course Director: M.A. Iliana Martínez

Degree: Master in English oriented towards Applied Linguistics.

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees:

- Teachers of English
- Bachelors in English
- English Translators

Requirements:

- A University or tertiary degree (of at least four years)
- An updated Curriculum Vitae
- A validated Academic Transcript
- A letter stating the reasons for applying to the Masters course.

Objectives: To further the students' theoretical knowledge of Applied Linguistics necessary for knowledge production in the field.

Graduates Profile: Graduates from the Master`s program will have built updated theoretical-conceptual and methodological knowledge in their specialization area. They will be prepared to conduct research on specific subjects by applying scientific methodologies, to solve problems inherent to the socio-educational reality and to develop innovative projects. The graduates will also be able to reflect on the individual and socio-political sense and projection of their function as Teachers and Researchers as well as being able to assume an axiological scale that prioritizes ethical values.

Curriculum:

- Course: Pragmatics
- Course: Discourse Analysis
- Course: Second Language Acquisition Theories
- Course: Research Methodology in Applied Linguistics
- Course: Genre Analysis: Academic Language
- Course: English Phonetics and Phonology
- Seminar: Situational Discourse Analysis
- Seminar: Educational Technology
- Seminar: Reading and Writing Processes in a Second Language
- Seminar: Learning Strategies and Processes in a Second Language
- Seminar: Sociolinguistics

Contact Information:

Facultad de Ciencias Humanas
Secretaría de Posgrado
Director: M.A. Iliana Martínez
Tel. (0358) 4676576. Fax: 4676464.
E-mail: maestriainglesunrc@hum.unrc.edu.ar



Faculty of Humanities

Specialist Degree Programs



SPECIALIST IN CULTURAL STUDIES OF PRACTICES AND IDENTITIES IN CONTEXTS OF GLOBALIZATION

Accreditation: Approved by Ministerial Resolution N° 85/11 and CO-NEAU Dictum, Project N° 10386/09, session 312/09.

Course Director: Dra. Gladys Morales

Degree: Specialist in Cultural Studies of practices and identities in contexts of globalization.

Course length: According to resolution 048 art. 10, annex II, the length of the program is of 4 academic semesters.

Addressees:

- All graduates from the Faculty of Humanities of the National University of Rio Cuarto with an undergraduate degree;
- Graduates and researchers of other universities with an undergraduate degree in the Social or/and Human Sciences, officially recognized in Argentina or other countries in accordance with the general graduate course Rules of the UNRC;
- Professionals working in social and/or formal educational organizations oriented towards promoting cultural development, the strengthening of civil society and the development of identities;
- Professionals and researchers with degrees in other fields working as teachers at the secondary, tertiary or university level and who have taken courses with curriculums related to the Human and/or Social Sciences or can demonstrate their training and experience in them.

Requirements: Those permitted to be students of the Specialization in Cultural Studies of Practices and Identities in Contexts of Globalization are:

- All graduates from the Faculty of Humanities of the National University of Rio Cuarto with an undergraduate degree;
- Graduates and researchers of other universities with an under-

graduate degree in the Social or/and Human Sciences, officially recognized in Argentina or other countries in accordance with the general graduate course Rules of the UNRC;

- Professionals working in social and/or formal educational organizations oriented towards promoting cultural development, the strengthening of civil society and the development of identities;

- Professionals with other degrees working as teachers at the secondary or tertiary level will be admitted only if they meet the following requirements:

- * Presenting certified evidence that prove the fulfilment of at least one (1) of the following requirements:

- o Having participated in community intervention projects for at least 2 years.

- o Having participated in voluntary work projects with institutional approval for at least 2 years.

- o Having participated in Non-governmental and/or Governmental Organizations oriented towards social problems (such as Human Rights, Women Rights, etc) for at least 2 years.

- * Having participated in the Innovation and Research Project to improve undergraduate teaching (PIMEG), Research Programs and Projects (PPI), and Project Ideas (IP) that deal with topics related to the specialty.

- o Having accreditation for a minimum of 80 hrs in completed graduate courses in disciplines related to the Social and/or Human Sciences. We consider that with the required number of hours, the applicant will have acquired the basic knowledge and specific technical language necessary to address the course's subject.

- o The applicants will be interviewed by members of the Academic Board to evaluate the relevance and quality of the previously mentioned experiences.

The general enrolment terms for students of graduate courses are regulated by the University High Council Resolutions 244/96 and 057/97. The enrolment modality is regulated by the High Council Resolution 82/07.

Objectives:

- To provide a framework of training with an interdisciplinary and

trasdisciplinary perspective that favours the development of abilities for the analysis of the production, circulation and social validation of the cultural knowledge and practices.

- To favour the creation of an intellectual and/or academic community in Cultural Studies capable of understanding and evaluating the new forms of social and cultural practices characteristic of a globalized contemporary world.
- To train skilled professionals capable of influencing exchange processes and the construction of cultural meanings in order to gain a better understanding of the person himself, the others and the social world.
- To create space for dialogue between institutions and people developing practices related to the field of Cultural Studies, even though they might not be recognized in the field.
- To favour the creation of lines of social and cultural action that allow the creation of new possibilities in order to construct new possibilities for a more just and solidary society.

Graduates Profile: Graduates from the Specialist Degree of Cultural Studies of Practices and Identities in Contexts of Globalization will be qualified to:

- Understand the dynamics and cultural complexity of the contemporary world.
- Diagnose and design strategic actions to orient educational-cultural activities with and inter and trasdisciplinary vision.
- Manage and creatively participate in community projects aimed at making reality and the new themes of the contemporary world with their ethical and social consequences comprehensible, strengthening nationality, democracy and cultural traditions as well as promoting the value and respect for diversity and multiculturalism.
- Contribute to the development, strengthening and updating of social and educational organizations that foster actions for constructing identities and cultures.

Curriculum:

Courses:

- Introduction to Cultural Studies
- Philosophic and cultural Anthropology
- Sociology of culture
- Ethical problems in contexts of globalization, interculturality and exclusion
- Post colonialism: Theories and Practices
- Educational practices and democratization of culture

Workshops:

- Writing of scientific texts with guided reading

Seminars:

- Ethnography and observation methods
 - Integrative seminar
- Documented final paper

Contact Information

Secretaría de Posgrado
Facultad de Ciencias Humanas
Tel.: +54 (358) 4676467
Email:
eculturalesunrc@hum.unrc.edu.ar

Faculty of Engineering

Doctoral Degree Programs



DOCTOR OF ENGINEERING SCIENCES

Accreditation: Approved by Ministerial Resolution N° 513/08 and CONEAU Dictum, Project N° 10024/07, session 260/07.

Course Director: Dr. Livio Sebastián Maglione

Degree: Doctor of Engineering Sciences

Course length: According to resolution 048 art. 6, annex IV, the length of the program is of 5 years.

Addressees: Graduated Engineers of any specialty or graduates of careers related to engineering, native or nationalized Argentine citizens or foreigners with a legal residence in the country.

Requirements:

PRE-ENROLLMENT: Documentation to be submitted (in both digital and printed versions):

1. Pre-application form (at: www.ing.unrc.edu.ar/posgrado/doctorado/doctorado_PPCI_formulario_inscripcion.doc)
2. A brief note directed towards the Graduate Studies Secretary of the Faculty of Engineering- UNRC describing the objectives and motivation for requesting the admission to the Doctorate in Engineering Sciences.
3. The applicant's detailed Curriculum Vitae.
4. A copy of his/her ID or passport.
5. A copy of his/her graduate or undergraduate degrees.
6. A copy of the academic transcripts for the accredited degrees or the graduate courses that the applicant is or has taken. In case of having taken courses in abroad, the applicant must present the corresponding apostilled certifications or the initialized legalization procedures.
7. The Curriculum Vitae of the suggested Director and Codirector.
8. A work plan proposal in the format established by CONICET for doctoral scholarship applicants (<http://www.conicet.gov.ar/becas/general.php>). Those who have already submitted work plans to CONICET will have to submit the same ones for this course.
9. Legal support for the work plan from the Director and Codirector, explicitly stating the institutional compromise to support and fund the plan's execution (equipment, laboratory costs, field and laboratory work, trips and travel allowances and any other funds necessary for the execution of the pro-

posed work plan)

10. An affidavit from the Director and Codirector stating the number of directed graduate students.

Objectives

- To train human resources of international excellence to work with autonomy, creativity and leadership.
- To consolidate the current research and technological development lines of the Faculty of Engineering of the National University of Rio Cuarto to a level of international excellence, related to the scientific, technological, economic and social development of the country to expand the knowledge in those areas of competence.
- To transfer the Faculty of Engineering' s technological developments on relevant subjects to the regional, provincial and national level.
- To start new lines of research and technological development.

Graduates Profile: Graduates from the Doctoral Degree in Engineering Sciences will develop different profiles according to the courses, seminars, independent activities and the Thesis project. Likewise, they will fundamentally possess the capacity to work with autonomy, creativity and leadership in tasks of scientific research and technological development as well as teaching at the university level.



Curriculum:

To obtain the Doctoral degree, students must pass Courses, Seminars, "Other activities" and a Thesis project, all in accordance with the UNRC' s Doctorate Regulations. The student must obtain a minimum of eighty-one (81) credits, distributed as follows:

- Courses: 21 (Minimum credits)
- Seminars: 5 (Minimum credits)
- Other activities: 5 (Minimum credits)
- Thesis: 50 (Minimum credits)
- Total: 81 (Minimum credits)

The courses for the program in Engineering Sciences are carried out quarterly and taught at the UNRC' s Faculty of Engineering. The choice of courses will depend on the area in which the student wants to specialize and must be selected by their Thesis Director.

The program is divided in the following periods:

- Pre-candidature period: it is focused on an intensive training for the Candidature Exam and carried out through a plan of courses, seminars, bibliographic reviews and preliminary research activities aimed at conduc-

ting research work for the Doctoral Thesis and the preparation for its defence. This period consist of two stages:

- o Enrolment to the pre-candidature period,
- o Conformation of the thesis commission and presentation of the first report.

- Candidature period: after passing the first report, the student can take the Candidature test before the Thesis Commission in a period no longer than 2 years after the end of the first period.

- The dissertation' s defence: the Doctorate Thesis corresponds with the development of a research project that makes an original contribution to the state-of-art of a specific subject of the Engineering Sciences

Contact Information:

Secretaría de Posgrado de la Facultad de Ingeniería

Tel.: +54 (358) 4676496 - 4676246

Email: posgrado@ing.unrc.edu.ar ;

smaglione@ing.unrc.edu.ar ;

gluna@ing.unrc.edu.ar - Website:

<http://www.ing.unrc.edu.ar/posgrado-doctorado.htm>

Faculty of Engineering

Masters' Degrees Programs



MASTER`S DEGREE IN ENGINEERING SCIENCES

ELECTRICAL, MECHANICAL AND CHEMICAL ENGINEERING

Accreditation: Approved by Ministerial Resolution N° 187/05 and CONEAU Resolution N° 855/12.

Course Director: MS. José Luís Hernández

Degree: Master in Engineering Sciences with alternative mentions in Electrical, Mechanical and Chemical Engineering.

Course length: According to resolution 048 art. 10, annex III, the length of the program is of 3 years.

Addressees: Graduated Engineers of any specialty or graduates of careers related to engineering, native or nationalized Argentine citizens or foreigners with a legal residence in the country.

Requirements:

PRE-ENROLLMENT: Documentation to be submitted (in both digital and printed versions):

1. Pre-application form: The application form (at: www.ing.unrc.edu.ar/posgrado/doctorado/doctorado_PPCI_formulario_inscripcion.doc) must be filled in.
 2. A letter requesting the admission to the Doctorate and detailing the objectives and motivation for applying.
 3. Detailed Curriculum Vitae with its corresponding certifications (the copies will be verified with their originals at the moment they are handed in).
- Candidates who are not graduates from the FI-UNRC (Faculty of Engineering of the National University of Rio Cuarto) must also present:
- 4- University Degree or a Title Certificate, with its corresponding authenticated photocopy.
 - 5- The Academic Transcript that certifies the completion of the candidate's undergraduate studies, with its corresponding authenticated photocopy.
 - 6- A guarantee note from the institution in which the applicant works.

If the applicant is not employed in any institution, he/she must present the name and address of at least two professionally recognized people who can provide references for the applicant.

Objectives:

- * To train excellent human resources in the FI-UNRC.
- * To continue the consolidation of the current lines of research.
- * To transfer the technological development of the FI-UNRC to the region.
- * To originate new lines of research in the FI-UNRC.
- * To complement the Basic Sciences with the Applied Sciences.
- * To interact with national and foreign research groups.

Graduates Profile: Graduate from the Master's Degree in Engineering Sciences will develop different profiles according to the chosen program of specific courses, seminars, specific training activities and the final Thesis. They will possess the ability to work with autonomy, creativity and leadership in technological transference activities as well as scientific research activities and teaching at the university level, in one specific area of the Engineering Sciences.

Curriculum:

The program is structured into basic courses and specific training courses, making possible the design of a curriculum based on the graduate student's characteristics and the subject of his/her thesis.

It is mandatory to complete a minimum of 240 hrs of basic courses and a minimum of 300 hrs of specific training courses. In addition to the specific training courses, students must

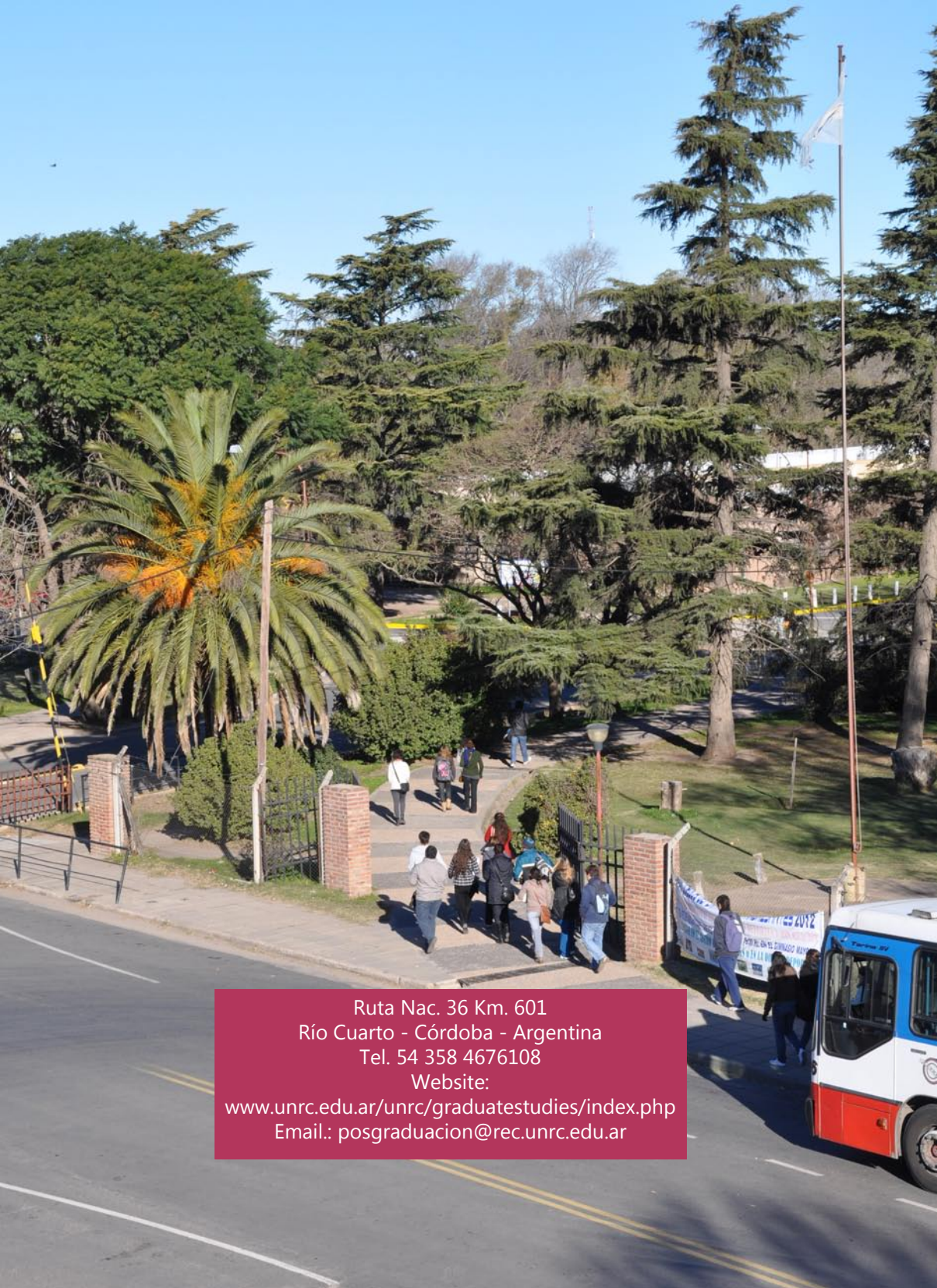
complete 200 hrs of specific training activities which include: an engineering sciences research seminar (40 hrs) and the participation in research and technological development projects approved by the organizations in charge of the scientific-technological system, and preferably directed by the thesis directors or codirectors (160 hrs). The Faculty guarantees the annual teaching of the mandatory basic courses and provides a minimum of specific courses.

Contact Information:

Secretaría de Posgrado Facultad de Ingeniería (UNRC)

Tel.: +54 (358) 4676496 – 4676246 Email: posgrado@ing.unrc.edu.ar ;
jlh@ing.unrc.edu.ar ; gluna@ing.unrc.edu.ar

Website: <http://www.ing.unrc.edu.ar/posgrado-maestria.htm>



Ruta Nac. 36 Km. 601
Río Cuarto - Córdoba - Argentina
Tel. 54 358 4676108
Website:
www.unrc.edu.ar/unrc/graduatestudies/index.php
Email.: posgraduacion@rec.unrc.edu.ar