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**Associate Degree in**

**APPLIED SCIENCES IN**

**AGRICULTURAL**

**TECHNOLOGY**



**APTE 2250 AGRICULTURAL EMPRESARISM**

Discussion of the administrative and commercial strategies of the technical and practical aspects of the marketing and commercialization of agricultural products. Identification of the main problems that this market faces and their possible solutions. Evaluation of the possibility of supplying the local market and the export of the products.

3 credits

**APTE 2910 PRACTICUM IN AGRICULTURE**

Experience for the acquisition, the consolidation and the integration of the skills and competencies that correspond to the profile of the competencies of graduates. One hundred twenty (120) hours of supervised practice in farming production systems. Prerequisite: Authorization of the Program director or coordinator.

2 credits

Financial aid available, if you qualify



## MAJOR COURSES

## DESCRIPTION

### PROGRAM

### DESCRIPTION

The Associate of Applied Science Degree in Agricultural Technology aspires to train professionals in the agricultural sector. This program is designed for students who are interested in the area of agricultural production and in agro-industries. The graduates of this program will be able to acquire theoretical and practical knowledge that will permit them to work in the quality, production and farming innovation areas, and in preservation of the environment.

#### ACADEMIC REQUIREMENTS

General Education Requirements	24
Major Courses Requirements	36
Total	60

24 credits are required as established in the General Catalog in the General Education Requirements section for Associate Degrees.



#### APTE 1110 EDAPHOLOGY

Review of the soil's properties, structure, fertility, the organisms in it, and the process of its contamination and degradation. Integration of the models in the viable planning of the use of the land, as well as its preparation for planting and the possible control mechanisms, treatment, and recovery.

3 credits

#### APTE 1120 PLANT PATHOLOGY

Description of the phytopathogens as a base to improve the control of diseases that affect the crops of the greatest economic importance. Diagnosis and eradication of the diseases by the identification of their symptoms, the agents that cause them and the capacity to use integrated strategies for a sustainable control. Requires 45 hours of lecture and 45 hours of lab. Prerequisite: BIOL 1100.

4 credits

#### APTE 2200 AGRICULTURAL HEALTH AND SAFETY

Introduction to the fundamental concepts of occupational health and safety in the farming industry. Identification of the factors and environmental dangers related to the equipment and chemical products including their effects and their control. Discussion of the legislation and the practical strategies to identify dangers and to evaluate risks.

3 credits

#### APTE 2211 CROP PRODUCTION I

Discussion of the fundamentals of the production of agricultural crops and the factors that influence directly in their development. Identification of their morphologic, environmental and reproductive characteristics and the techniques for their seeding and cultivation that have the greatest economic importance. Requires 45 hours of lecture and 45 hours of lab. Prerequisite: APTE 1120.

4 credits

#### APTE 2212 CROP PRODUCTION II

Development of the theoretical and practical foundations about the different processes of crop production, as well as the industries derived from the crops of the greatest economic importance. Identification of the factors that affect the agricultural systems. Requires 45 hours of lecture and 45 hours of lab. Prerequisite: APTE 2211.

4 credits

#### APTE 2220 NEW AGRICULTURAL TRENDS

Description of the characteristics, the advantages and the disadvantages of the different techniques of crop production without soil in the production of agricultural crops. Techniques of the preparation and the handling of the substrates and the nutritious solutions, the irrigation systems and the identification and control of the phytosanitary state of the crops. Discussion of the alternatives to optimize the production of the crops in systems of ecological agriculture. Requires 45 hours of lecture and 45 hours of lab.

4 credits

#### APTE 2230 ANIMAL PRODUCTION

Review of the basic concepts of animal production, with emphasis in the techniques of the care, reproduction and the raising of the best breeds of animals in order to obtain a good production. Description of the main aspects and attributes of the quality of the derived products.

3 credits

#### APTE 2240 AGRICULTURAL WASTE

Identification of the most appropriate strategies for the use, the handling and the disposal of agricultural wastes to diminish the contamination of the land and water by chemical and organic agents. Comparison of alternatives for the reduction of the production of wastes at their source and their transformation into ecological products.

3 credits