

## **Descripciones de Cursos Programa de Citotecnología**

### **CITO 6505 - INTRODUCTION TO CYTOTECHNOLOGY**

#### **DESCRIPTION**

This is an introductory course, which presents the history and evolution of the Cytotechnology field. We emphasize the importance of the cytotechnologist as a professional member of the health care team and the purposes of Cytotechnology. Professional aspects such as: the Code Ethics and Competencies will be discussed allowing students to initiate aspects such as: the use of equipment and processing of cytological samples, laboratory safety procedures and laboratory handling. The instructional strategies include, among others: lecture, independent study and some laboratory demonstration.

### **CITO 6507 - GENERAL CONCEPTS IN BASIC SCIENCES**

#### **DESCRIPTION**

This course will review general topics in basic sciences. Students will begin the course by examining basic components of the cell and cellular functions. This will be followed by discussion of cellular activity and immunologic responses.

Students will be able to understand the different pathological processes that affect the cell, and the mechanism of cell response to injury. They will be trained in the evaluation of cellular samples.

The instructional strategies include: lectures, independent study and some laboratory demonstrations. The course will be offered during the second and third weeks of the first semester.

### **CITO 6509 - FEMALE GENITAL SYSTEM**

#### **DESCRIPTION**

This course provides students the opportunity to participate in a series of educational activities that will develop knowledge and skills in anatomy, histology and cytology of the female genital system. They will distinguish between benign pathologic processes and neoplastic processes. This course includes laboratory practice and the ratio of laboratory and lecture hours is 3:1. It will be offered from the third to the eleventh week of the first semester.

### **CITO- 6515 - RESPIRATORY AND GASTROINTESTINAL SYSTEM**

#### **DESCRIPTION**

This course offers the students the opportunity of acquiring basic knowledge of the respiratory and gastrointestinal systems, by studying their anatomy, histology and cytology. It provides students the opportunity to participate in a series of educational experiences that will enable them to develop specific skills necessary prior to professional training. The study of the respiratory system includes cytology of epithelial cells, non - epithelial cells, and non - cellular material. The study of the gastrointestinal system explores all of its organs. The students will be trained in specimen preparation procedures and in the implementation of new techniques in the field of cytotechnology. The instructional strategies include, among others: lecture, discussion, independent study and laboratory practice.

## **CITO 6516 – URINARY SYSTEM AND BODY FLUIDS**

### **DESCRIPTION**

At the end of this course the students will have a broader concept of the female and male urinary systems and body cavity fluids. They will develop laboratory skills related to cytology of the urinary system and will examine its anatomy, histology and cytology. Normal cytology, as well as benign and neoplastic conditions will be discussed. The anatomy, histology and cytology of body cavities, as well as, the body fluids under benign processes and pathological conditions will also be studied. The instructional strategies include, among others: lecture, discussion, independent study and laboratory practice.

## **CITO 6517 - BREAST AND MISCELLANEOUS**

### **DESCRIPTION**

This course will provide students the opportunity to broaden the concept of the Breast and other parts of the human body. Students will study the anatomy, histology, cytology and hormonal effects of the breast, including normal cytology, non - neoplastic and neoplastic conditions. The course covers the study of anatomy, histology and cytology of other body components not included in previous courses, such as, bloodflow, the cerebrospinal system, synovial fluids, eyes and skin. It concludes with the fine needle aspiration method as a diagnostic process. Laboratory practice is provided during the course. The ratio of laboratory to lecture hours is 3:1. The course will be offered during the third and fourth weeks of the second semester.

## **CITO 6518 - CLINICAL PRACTICUM**

### **DESCRIPTION**

This course consists of clinical experiences designed to enable students in the processing, evaluation and interpretation of cytological specimens, and in the management of laboratory activities as similar as possible to the ones that they will encounter as health professionals. Students will demonstrate ability to review and evaluate histologic tissue sections, cytology and pertinent clinical data in order to establish correlation for the purpose of Quality Control and Quality Assurance. They will comply with laboratory safety measures and regulations. Throughout the clinical experiences the students will be able to assist the clinician, in the FNA procedures and in the evaluation of the samples. At the end of the clinical practicum the student is required to present a final research project. The course will be offered in laboratories affiliated to the program through formal agreements with different hospitals. Students will be closely supervised by an experienced and qualified cytotechnologist, who will serve as a consultant and advisor. This course will be offered during the last fourteen weeks of the Second Semester and during eight weeks of the summer.