

MIAMI DADE COLLEGE MISSION STATEMENT

As democracy's college, Miami Dade College changes lives through accessible, high-quality teaching and learning experiences. The College embraces its responsibility to serve as an economic, cultural, and civic leader for the advancement of our diverse global community.

SCHOOL OF HEALTH SCIENCES MISSION STATEMENT

The mission of the School of Health Sciences is to provide excellent, affordable, and accessible health care education and to promote quality health care services throughout the community.

HISTOTECHNOLOGY PROGRAM MISSION STATEMENT

The mission of the BAS-HS-Histotechnology (HTL) program is to deliver the highest quality education that is student centered. The BAS-HS-HTL program is committed to providing the knowledge, skills, and ethical behaviors required of the profession. We are dedicated to meeting the needs of our community and advancing the role of the histotechnology professional in health care.

Administrators:

Dr. Erika Di Porto, Chairperson, School of Health Sciences

Faculty:

Caridad Gutierrez MA. ED HTL (ASCP)[®] Program Director /Associate Professor

HISTOTECHNOLOGY PROGRAM GOALS

The faculty and staff in the BAS-HS-Histotechnology program recognizes their responsibility to educate Histotechnology laboratory professionals that will be ready to enter the health care field and provide quality patient care to citizens in the Miami area and any other area where the graduate may choose to practice. The Histotechnology Laboratory Program faculty and staff also recognize their responsibility to students, employers, patients, and the community at large to adhere to the highest academic standards in the delivery of instruction.

The department will develop the student with the goal of producing medical laboratory scientist who have knowledge and skills in the following:

- All major areas practiced in the contemporary clinical laboratory.
- Application of safety and governmental regulations and standards as applied to the Histotechnology laboratory science.
- Principles and practices of professional conduct and the significance of continuing professional development.
- Communications sufficient to serve the needs of patients, the public and members of the health care team.
- Principles and practices of administration and supervision as applied to clinical laboratory and Histotechnology laboratory.
- Educational methodologies and terminology sufficient to train/educate users and providers of laboratory services.
- Principles and practices of clinical study design, implementation and dissemination of results

PROGRAM GOALS AND COMPETENCIES

To achieve our mission the program has established the following goals, which it strives to accomplish with every program student. These statements are used in assessing the progress of our students who are in-program and, ultimately, they also serve as benchmarks that measure how well the program is achieving its goals.

Goal #1: To provide students with the highest quality academic and clinical education in the field of Histotechnology.

- **Indicator:** Histotechnology Program at MDC will maintain continued accreditation with the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).
- **Indicator:** Students in the Histotechnology Program at MDC will obtain a passing score on the national certification examination and secure a license to practice from the State of Florida.

Goal #2 To assist students in developing an understanding of their role as members of the health care team.

- **Competency A:** Students will treat all clinical and on-campus personnel with respect.
- **Competency C:** Students will seek continuing education opportunities to promote academic and intellectual growth.
- **Competency D:** Students will be flexible and remain adaptable to changes in the clinical professional environment.
- **Competency E:** Students will develop a sense of responsibility and a realization of the importance of their role in patient care. They will guard the patient's confidentiality and adhere to all HIPPA and OSHA guidelines.

Goal #3 To provide students with the skills to become effective communicators within the health care environment.

- **Competency A:** Students will be able to initiate timely verbal or written communication that is both courteous and professional.
- **Competency B:** Students will understand computer technology and be capable of using the technology for the operation of instruments in the clinical setting.
- **Competency C:** Students will be able to follow instructions both verbally and in a written form

Goal #4 To develop students so they can acquire the skills necessary to become critical thinkers and problem solvers.

- **Competency A:** Students will use initiative to solve technical problems and perform follow-up procedures.
- **Competency B:** Students will be able to prioritize and organize their work so that patient care can be administered in a timely manner.
- **Competency C:** Students will make use of their clinical knowledge to make decisions regarding laboratory values and take proper action.

Goal #5 To advance in our students the knowledge they will need to perform Histotechnology laboratory procedures safely and competently.

- **Competency A:** Students will advance their knowledge of proper specimen collection and processing.
- **Competency B:** Students will be able to evaluate quality control.
- **Competency C:** Students will be able to follow test procedures and apply test principles in the performance of laboratory assays.
- **Competency D:** Students will be able to follow established laboratory safety rules and guidelines.
- **Competency E:** Students will be able to use clinical diagnostic parameters and correlate test results.
- **Competency F:** Students will be able to demonstrate knowledge of clinical studies

Goal #6 To develop in our students the skills they will need to perform Laboratory Operations and Management

- **Competency A:** Students will be able to apply the skills necessary to perform leadership duties and managerial decision making in the Histotechnology Laboratory.
- **Competency B:** The student will be able to apply the skills necessary to perform administrative and supervisory roles in the Histotechnology laboratory
- **Competency C:** Students will be able to accurately train/educate laboratory personnel
- **Competency D:** Students will be able to apply governmental regulations and standard

HISTOTECHNOLOGY PROGRAM COURSE DESCRIPTIONS

- HSC 3655 Theoretical Foundations of Health Care Ethics 3.00 Credits
This course will cover the Theoretical Foundations of Health Care Ethics. The student will learn how to apply the core principles of ethics to the medical and health care decision-making process
- MLS 4621 Clinical Biochemistry 4.00 credits
This course provides the student with the knowledge and understanding of clinical disorders and how biochemical factors and laboratory methods are used for the investigation, diagnosis and management of patients.
- MLS 4193 Clinical Molecular Diagnostics 3.00 credits
Clinical molecular diagnostics course provides an introduction to molecular analysis of biological markers in clinical samples to aid in the diagnosis, monitoring and treatment of diseases.
- HSC 3701 Leadership and Management in Healthcare 3.00 credits
This is a leadership and management course that will examine leadership as a process with a tri-fold focus: the leader, the followers, and the situation. The student will learn leadership theories and build leadership skills.
- MLS 3705 Laboratory Operations and Management 3.00 credits
This course provides students with Quality Management skills necessary in the medical laboratory. Students are exposed to organizational structure along with principles for leadership and managerial decision making and process improvement along with different principles used in Laboratory Instrumentation.
- MLS 3150 Special Topics in Histotechnology Section 3.00 credits
This course stresses the importance of evidence-based practice in the medical laboratory sciences field. Students will be presenting case studies to the faculty and peers in the program. Instruction will emphasize professional, legal and ethics issues affecting the medical laboratory science field. Students will review the material covered in the program to prepare for the comprehensive assessment.
- HSC 3057 Introduction to Research Methods and Issues in Health Science 3.00 credits
This course will provide an overview of research methods used in healthcare. Students will learn the use of effective inquiry through research strategies that address healthcare issues with logical and observational rigor. Students will learn the rudiments relative to the evaluation of research literature, research design and the application of research methods to the clinical setting.
- MLS 4181C Immunohistochemistry 3.00 Credits
This course introduces the various techniques that are used in the preparation and evaluation of immunohistochemistry slides. Procedures and terminology related to immunohistochemistry are also discussed and strategies for troubleshooting problems are presented

- MLS 4195C Enzyme Histochemistry 3.00 Credits
 This course an introduction to advanced techniques and special procedures. Students will learn procedures for, muscle enzyme Histochemistry and molecular histology. The course will include tissue preparation, staining technology, quality control and troubleshooting
- MLS 4196C In-Situ Hybridization (FISH) 3.00 Credits
 This course will explore the theoretical concepts used in fluorescence in-situ hybridization (FISH) testing. Commonly used FISH methodologies, necessary equipment, and the enumeration of FISH signals will also be discussed.
- MLS4198 Immunohistochemistry clinical/Independent Laboratory Concentration 5.00 Credits
 This course will introduce the students to the basic immunohistochemistry techniques as applied to the routine anatomical pathology laboratory through the use of slide testing by students