M.S.B.S. Assistant in Pathology
Course Descriptions

*Pre-professional courses:*

**ANAT 5000 - Anatomy for Physician Assistant**

Provides students with a working knowledge of the major anatomical regions and structures. Emphasis placed on the relationships of components as well as topographical and functional anatomy. Case studies will be utilized.

**PHSL 5050 - Human Physiology**

This course addresses cellular, regulatory and organ system physiology including blood and immune system, cardiovascular, respiratory, gastrointestinal, renal reproductive and endocrine physiology.

**ANAT679 - Micro Anatomy**

Includes integrated topics from gross anatomy, microanatomy and embryology. The course is designed around a framework based on regional anatomy. In each segment, the appropriate macro-, microscopic and developmental anatomy will be covered. Students accomplish cadaver dissections and microanatomy labs during this block. Throughout the course, there is a strong emphasis on three-dimensional anatomical relationships that is reinforced by small group discussions and demonstrations of regional radiographic imaging. Each unit has clear clinical correlations that are presented to the students in a variety of ways, including panel discussions, small groups, demonstrations and meetings. Students have the opportunity to develop initial physical diagnostic skills in a series of workshops, which correlate surface anatomy with internal structures and normal thoracic, abdominal and ENT exams.

*Surgical Pathology and Autopsy Courses:*

**PATH 6060 - Surgical Pathology Techniques**

Introduces students to surgical pathology and cytology including gross evaluation of tissues, tissue processing and microscopic evaluation of diseased human tissues to render a diagnosis, recommend treatment and evaluate prognosis. In addition, students will attend and/or present case materials at conferences.

**PATH 6080 – Post Mortem Pathology (Hospital and Forensics)**

An introductory course designed to acquaint students with the autopsy. It consists of a series of lectures, demonstrations and readings pertaining to the human autopsy. The students will be involved in the actual performance of autopsies. Both forensic and hospital cases will be trained on how to perform a complete evisceration including the head and neck and they are evaluated by the attending pathologist as well as the dieners. The evaluation includes assessment of their anatomy knowledge as well as their technical skills.
Clinical Courses:

PATH 6070- Clinical Lab Medicine
An introductory course designed to acquaint students with the laboratory tests that are available in the clinical laboratory, prioritization of test ordering, how the tests are performed and their usefulness in clinical diagnosis and clinical investigation.

PATH 713- Pathology Case Studies
Students meet daily; three clinical cases are presented by students; all students participate in discussion of cases as well as related learning issues.

INDI 6980- Scholarly Project
Option to develop an in-depth scholarly project to fulfill the research requirements of the MSBS degree program. May be repeated for credit.

Year 1- Fall
ANAT 5000- Anatomy for Physician Assistant
PHSL 5050- Human Physiology
PATH 6060- Surgical Pathology Techniques
PATH 6080- Post Mortem Pathology (Hospital and Forensics)

Year 1- Spring
PATH 6890- Independent Study in Pathology
PATH 6080- Post Mortem Pathology (Hospital and Forensics)
PATH 713- Pathology Case Studies

Year 1- Summer
PATH 713- Pathology Case Studies
PATH 6060- Surgical Pathology Techniques
PATH 6080- Post Mortem Pathology (Hospital and Forensics)

Year 2- Fall
ANAT 679 - Micro Anatomy
INDI 6980- Scholarly Project
PATH 6070- Clinical Lab Medicine