Histology (HSTL)

HSTL 451. Oral Histology. 4 hours.
Comprehensive learning experiences in the structure and function of
human tissue, organs, and organ systems with special emphasis on the
oral cavity. Course Information: Registration in HSTL 452 is required in
the Spring term. Prerequisite(s): Approval of the Department. Students
must also register for HSTL 452 in the Spring term.

HSTL 452. Histology II. 4 hours.
Continuation of HSTL 451. Provides a baseline of normal structure and
function of human tissues necessary for the study of Oral Pathology
and advanced courses in Histology. Course Information: Prerequisite(s):
HSTL 451; and approval of the department or first year standing in the
Doctor of Dental Surgery Program.

HSTL 503. Biology of Mineralized Tissues. 2 hours.
Lectures and discussion on the formation, structure, and functions
of bone, dentin, and enamel. Emphasizes the mechanisms of
mineralization. Course Information: Prerequisite(s): A basic course in
histology and consent of the instructor.

HSTL 504. Fine Structure of Oral Soft Tissues. 2 hours.
Discussions of electron microscopic research methodologies as applied
to oral biology with special emphasis on structural-functional relationships
in oral soft tissues. Course Information: Prerequisite(s): HSTL 401 and
HSTL 451 or the equivalents and consent of the instructor.

HSTL 507. Physiological Basis of Pathology. 2 hours.
Subject matter allied to general pathology but going deeper into physical
chemistry and physiological principles, as set forth in N.R. Joseph's
"Comparative Physical Biology". Course Information: Same as PATH
507. Prerequisite(s): HSTL 401 or PATH 421 and PATH 422.

HSTL 514. Oral Biology Seminar. 1 hour.
Invited speakers present the progress of current research work in their
field of interest related to oral tissues. Course Information: Same as
OMDS 527. Satisfactory/Unsatisfactory grading only. Prerequisite(s):
Consent of the instructor.

HSTL 515. Electron Microscopy in Dentistry. 1 hour.
Principles, theory, and practice of transmission and scanning electron
microscopy, and energy dispersive x-ray microanalysis. Processing,
sectioning, staining and examination of tissues. Course Information:
Same as OMDS 529. Prerequisite(s): Consent of the instructor. Class
Schedule Information: To be properly registered, students must enroll in
one Laboratory and one Lecture.