

CAN 5301 - Special Topics - Histology

Trimester: Winter 2009

Instructor:

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Lead Instructor and Course Coordinator

Director, Clinical Anatomy

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Office hours: Mondays and Tuesdays, 7:30 – 9:30 p.m. and by appointment.

Class Meets: To be determined

Credits: 2

Course Description: This course is an in-depth examination of specific topics in histology, examined in greater detail than in the prerequisite cell and tissue biology prerequisite. Content will be organized around tissues and organ systems, with particular emphasis on organogenesis, genetic control of development, developmental defects, and implications for postnatal health and well-being. When resources permit, hands-on preparation and examination of histological specimens will be included in the course.

Prerequisites: entrance requirements.

Required Text:

Wheater's Functional Histology: A Text and Colour Atlas. 4th Edition. 2000. Churchill-Livingstone.

Electron Microscopy: Principles and Techniques for Biologists. 1998. Jones & Bartlett

Functional Ultrastructure : An Atlas of Tissue Biology and Pathology. 2005. Springer.

Learning Objectives:

In order to successfully complete the course, the student will:

1. Demonstrate competence in microscopy.
2. Demonstrate the ability to distinguish tissue types, and normal and abnormal histology in a teaching laboratory environment.
3. Demonstrate competence in the histology and histopathology of musculoskeletal tissues.
4. Demonstrate competence in the preparation of thin sections of bone and other calcified tissues.
5. Demonstrate and understanding of the theory and practice of electron

microscopy and demonstrate the ability to distinguish tissue types, and normal and abnormal histology in a teaching laboratory environment using electron micrographs.

Assessment:

Grades are based on the following elements:

Weekly presentations	50%
Final Presentation	50%

Grading Scale:

90-100	A	Consistently exceeds performance standards
80-89	B	Meets and occasionally exceeds performance standards
70-79	C	Meets performance standards
0-69	F	Fails to meet minimal performance standards

Course Calendar:

WEEK 1 - To be determined.

WEEK 2 - To be determined.

WEEK 3 - To be determined.

WEEK 4 - To be determined.

WEEK 5 - To be determined.

WEEK 6 - To be determined.

WEEK 7 - To be determined.

WEEK 8 - To be determined.

WEEK 9 - To be determined.

WEEK 10 - To be determined.

WEEK 11 - To be determined.

WEEK 12 - To be determined.

WEEK 13 - To be determined.

WEEK 14 - To be determined.

WEEK 15 - To be determined.

Additional references and resources:

Gray's Anatomy, 38th Edition (1995) Bannister, Berry and Williams, eds., Churchill Livingstone, London.

Attendance Requirements: Maximum allowable absence = 1

The student is responsible for making up work missed during the missed session. The maximum allowable absence set by Academic Affairs is 20%. Some courses may set attendance requirements at a lower allowable absence rate due to course content or structure, but may not exceed 20% allowable absence. Greater than 2 absences for this course or noncompliance with specific attendance policies detailed in course syllabus, will result in a grade of XF being awarded, in which case the entire course must be repeated in its entirety.

Health Clearance Policy:

New York Chiropractic College considers it in the best interest of students to obtain appropriate and periodic health screenings. NYCC provides such health clearance examinations to all students through the Campus Health Center at no charge. All first trimester students are required to receive a complete physical examination, which will include diagnostic imaging and laboratory examinations when clinically warranted. Based upon this information a clinician will clear the student for full, limited, or no participation in practical/clinical classes.

During the fourth trimester, the student must make an appointment and have a reevaluation and an update of their case history. Students are required to report to the Health Center for the purpose of updating their records if any change occurs between examinations, including any formal referrals made by clinical faculty in the course of a laboratory class.

If any condition is revealed during the health clearance process that may affect a student's ability to participate fully as a patient in technique or diagnosis laboratories, the student must sign a release of information allowing appropriate disclosure of information to all concerned parties, including: Class Instructors, Clinician, Dean of Chiropractic Education, Registrar, and Associate Provost. Refusal to sign such a release will result in the temporary or permanent suspension of participation privileges in practical clinical classes. The Health Center will notify the Registrar the Friday prior to registration day of all students cleared for participation. Failure to meet the health clearance requirements will prevent the student from registering for the following trimester. If the student is not cleared for participation as per the technical standards of the College the student must withdraw from the course and/or the program.

Disclaimer Statement:

This syllabus is a representative of the course content, organization and evaluation processes. The faculty teaching this course reserves the right to reasonably alter the sequence of activities, evaluation, and assignment dates, and evaluation and assignment method or styles. Every effort will be made to inform the class members in advance of such changes. Students are responsible for following the syllabus and any changes instituted by faculty.