Objectives and Expected Outcomes of this Course:

Histology is the science of tissues (Greek; Histos means web or tissue and logia means branch of learning). Using various techniques, histology establishes connections between microscopic structure of cells and tissues and their functions. The main objective of this course is to provide students theoretical and practical knowledge in Histology. At the end of this course, students are expected to have a solid understanding of microanatomy of various cells, tissues and organs and their functions in humans. In addition, students should be able to perform various fixation and staining procedures and use a microscope to analyze the microstructure of tissues.

Course Director: Dr. Suraj Unniappan
Assistant Professor
Department of Biology
Room 221A, Lumbers Building
Phone: 416-736-2100 ext. 20999
E-mail: suraju@yorku.ca

Office Hours: Tuesdays 12:30-1:30 PM

Grade Distribution:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-Term Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Lab Assignments (5)</td>
<td>25%</td>
</tr>
<tr>
<td>Lab Exam</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>45%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
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</tbody>
</table>

Attendance is mandatory for the lecture and lab exams.

Lectures:

- Tuesdays: 1-2:30 PM
  - Accolade East Building, Room 002 (ACE 002)
- Thursdays: 2-3:30 PM
  - Accolade East Building, Room 003 (ACE 003)

Labs:

- Mon/Tue/Wed/Thu: 2:30-5:30 PM
  - Location: Room 204, Farquharson Life Sciences Building (FS 204). Duration of each lab is 3 hours. Lab attendance is mandatory. You must bring a safety glass and a lab coat to all lab sessions to you will not be allowed into the lab. *Prepared slides and electron micrographs must remain in the lab.*
Textbook:  
*Histology – A Text and Atlas*
Authors: Michael H. Ross, Wojciech Pawlina
Publisher: Lippincott Williams and Wilkins
Fifth Edition

Important Dates (for Fall 2008 courses):

Last date to enroll in the course without instructor’s permission: September 18
Last date to enroll in the course with instructor’s permission: October 3
Last date to drop courses without receiving a grade: November 7
Fall Classes End: December 2
Fall Exams Start: December 5; Fall Exams End: December 22
More information about this can be found at: http://www.registrar.yorku.ca/importantdates/fw08.htm

IMPORTANT NOTES:

Students who feel that there are extenuating circumstances that may interfere with their ability to successfully complete the course requirements are encouraged to discuss that matter with the Course Director as soon as possible.

Students with physical, learning or psychiatric disabilities who require reasonable accommodations in teaching styles or evaluation methods should discuss this with the Course Director immediately so that appropriate arrangements can be made.

All students must read and be aware of the York University policies regarding student conduct, academic honesty and plagiarism, which can be found at http://www.yorku.ca/secretariat/policies/. Students are also expected to know the lecture and lab schedule, deadlines for lab assignments and exam dates.

Tentative Lecture Schedule:

<table>
<thead>
<tr>
<th>Class/Dates</th>
<th>Contents</th>
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</thead>
<tbody>
<tr>
<td>September 4, 9</td>
<td>Introduction, Methods in Histology: Tissue processing, Histochemistry, Microscopy</td>
</tr>
<tr>
<td>September 11, 16, 18</td>
<td>Cell, Tissues, Overview of Tissues</td>
</tr>
<tr>
<td>September 23, 25, October 2</td>
<td>Adipose tissue, Bone, Muscle</td>
</tr>
</tbody>
</table>

*Note: September 13, 30 and October 9 and 13 – Holidays – No Lectures/labs*
October 7, 14  Nervous System: Neurons, Supporting Cells, Organization of the Central and Peripheral Nervous Systems

October 16  Mid-term exam

October 21, 23  Blood Cells, Cardiovascular System: Cardiac Muscle, Structure of Blood vessels

October 23,25  Digestive System: Salivary Glands, Stomach, Intestine, Liver, Gall Bladder

October 28, 30  Respiratory System: Nasal Cavity, Respiratory Tract, Lungs

November 4, 6  Urinary System: Kidney Structure, Urinary Bladder, Urethra

November 11, 13, 18  Endocrine System: Pituitary, Hypothalamus, Pineal Gland, Thyroid, Parathyroid, Adrenal Glands, Endocrine Pancreas

November 20, 25  Male and Female Reproductive Systems: Testis, Accessory Glands, Ovary, Uterus, Placenta

November 29,  December 2  General and Microscopic Structures of the Eye and Ear

Final Exam – Date to be decided and announced by the registrar’s office

Note: Lecture materials will be posted online in the course website (available in “Moodle”) after each class

How will I access this course through Moodle?
Please go to http://moodle.yorku.ca/, then click on “Fall-Winter 2008-09”, then use your Passport York ID and password to access the site. Once inside the Moodle site, click on “Fall” under “Faculty of Science and Engineering”, then click on “AS/BIOL F 4220 4.0 Lec A (Fall 2007-08)”. This will take you to the Histology course page and will automatically enroll you to the site. All announcements will be present under the “Course announcements” section and lectures will appear below this section. Both MS PowerPoint and pdf files of lectures will be posted.

Enjoy Histology!  All the Best!