

## Planning and Quality Assurance Affairs

Form (A)

### Course Specifications

#### General Information

Course name	Histology and Microscopic Preparation
Course number	AMSL2313
Faculty	
Department	
Course type	Major Needs
Course level	2
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

#### Course Objectives

- 1 - The purpose of this course is for students to learn the structure and basic function of cells, tissues, organs and organ systems. The course begins with description and discussion of cells that comprise the four basic tissues. The unique arrangement of basic tissues to form organs and organs systems is then discussed. The course also covers general concepts of human embryologic development. The intent is for students to have a clear mental image of the human body at the microscopic level. Students are expected to be able to describe and identify the microscopic features and functions of cells, tissues, organs and organ systems. The information and concepts students learn in general histology will be used to facilitate learning in other biomedical science courses, such as biochemistry, physiology, anatomy, pathology.

#### Intended Learning Outcomes

Knowledge and Understanding	<ul style="list-style-type: none"> <li>* 1. To describe the general structural and light microscopic features and functions of cells and the extracellular matrix.</li> <li>* 2. To describe the characteristic structural features and function of each of the basic tissues.</li> <li>* 3. To identify the characteristic structural features and functions of the organs.</li> <li>* 4. To identify from projected images the four basic tissues, and the cells and structures that compose</li> <li>* 5. To describe the general concepts of early embryologic development and embryologic development of the cardiovascular, respiratory, digestive and urinary systems.</li> <li>* 6. To apply the knowledge and understanding the structures and functions listed above to solve the clinical problems.</li> <li>* 7. To apply the information described above with success in the biomedical science and in continuous learning during clinical practice.</li> <li>* 8. Acquire skills to operate and utilize microscopes and/or virtual histology laboratory to gain critical pattern recognition skills</li> </ul>
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## Teaching and Learning Methods

- 1 - Lecture Notes
- 2 - Powerpoint presentation
- 3 - Laboratory sessions

## Students Assessment

<u>Assessment Method</u>	<u>TIME</u>	<u>MARKS</u>
Midterm Exam	Midsemester	20
Practical work and Exam	Within semester	30
Final Theory Exam	End of semester	50

## Books and References

Course note	<ol style="list-style-type: none"><li>1- The suggested textbook for the course is Atlas of Human Histology. A Guide to Microscopic Structure of Cells, Tissues and Organs by Robert L. Sorenson.</li><li>2- Interactive Virtual Microscope website at <a href="http://histologyguide.org">http://histologyguide.org</a></li><li>3- Junqueira's Basic Histology, 14 th edition: Text &amp; Atlas by Mescher. McGraw Hill</li><li>4- Access to <a href="http://LeesHistology.com">http://LeesHistology.com</a> (Free): This is the primary virtual histology laboratory resource.</li></ol>
Essential books	Lecture in Histology Dr. Riyadh Jaber 2010