

**BIOLOGY 331, HISTOLOGY**  
**The Department of Biological Sciences**  
**University of Mary Washington**

Spring Semester, 2010

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**I. COURSE INSTRUCTOR & OFFICE HOURS**

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Office Hours:  
T, R 9:00 - 11:30  
Other times by appointment

**II. MEETING TIMES**

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Lecture:	MWF	10:00 - 10:50	209 DuPont
Lab:	Tuesday	2:00 - 4:45	109 Jepson Science Center

**III. COURSE DESCRIPTION**

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Biology 331 is a mammalian histology course. As such, the course is a classical study of the structure and function of normal mammalian tissues and organs. This course has the flavor of any anatomy and/or physiology course that you may have had in the past. The course should be of particular interest to any student interested in the structure and function of animal bodies in general and the human body specifically, and it has particular application to any student pursuing a possible career in human and veterinary medicine, dentistry, nursing, and other allied health fields.

The course is designed for intermediate-to-advanced biology students who have completed general biology, general chemistry, and cell biology. This course, however, is NOT a cell biology course; we do not discuss the detailed cellular mechanisms that are discussed in a cell biology course. Cell biology is a prerequisite because understanding the way animal cells work is useful in the course.

**IV. THE LABORATORY**

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The laboratory component of the course involves the classic microscopic study of vertebrate / mammalian / human tissue slides. The laboratory manual is an on-line laboratory manual developed specifically for this course. If you have a laptop, you are asked to bring it to lab every week.

Lab manual web address: <http://histologyOLM.stevegallik.org>

**V. COURSE PREREQUISITES**

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Biol 211 (Cell Biology), or its equivalents, is a prerequisite for the course.

## VI. REQUIRED TEXT

Ross and Pawlina, Histology. A Text and Atlas. 5th edition. Lippincott Williams & Wilkins, 2008.

Required reading assignments from the text will be given frequently to supplement lecture. These required readings should be treated as lecture material and be studied as thoroughly as the lecture notes. Otherwise, while it is not required, it is suggested that students read along as the chapters in the book are covered in lecture.

## VII. BLACKBOARD

This course utilizes UMW's Blackboard Web portal for the dissemination of course materials. The course will be listed on the Blackboard page of all enrolled students.

All lectures are presented in Powerpoint. The Powerpoint presentation for each lecture will be posted in Adobe's Portable Document Format (PDF) on the Blackboard site well in advance of each lecture, and it is highly recommended that you print out each lecture's handout before the day of lecture so you are not tied-up in printing traffic right before class. To access the lecture slides and handouts, you will need Adobe Reader installed on your computer. If you do not have Adobe Reader installed, you can get a free download using the link on the course Blackboard page. If you live off campus and access blackboard via dial-up access, you might find download speeds for some of the lecture handouts to be slow, and you might find it necessary to print materials on-campus.

Be aware that the course's blackboard site is NOT a reliable site for ALL course announcements. While some course announcements may be posted on-line, others may not. The only reliable source for course announcements is lecture. **You are responsible for all course announcements and course materials distributed in lecture or lab whether you are in attendance or not.**

## VIII. EXAMINATIONS

Four pairs of lecture - lab examinations will be given at regular intervals throughout the semester. Each lecture - lab examination pair is worth 25% of the final grade. Exam dates are indicated on the lecture & lab schedules. Each of the lecture exams will consist of conceptual questions. The conceptual section will contain a mixture of objective and subjective questions. Each lab exam is a practical examination; questions will focus on the microscopic identification of cells, tissues and organs.

## **IX. GRADING**

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The following grading scale and grade definitions will be applied to the final grade:

93 - 100 %	A	unusual excellence
90 - 92 %	A-	
87 - 89 %	B+	
83 - 86 %	B	work distinctly above average
80 - 82 %	B-	
77 - 79 %	C+	
70 - 76 %	C	work of average or medium quality
65 - 69 %	D+	
55 - 64 %	D	the lowest passing mark, work of below average quality
<55 %	F	failure (result: no course credit)

The instructor reserves the right to curve the grading scale downwards.

## **X. HONOR SYSTEM**

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The MWC honor system is in effect at all times.

## LECTURE SCHEDULE

Jan	11	Introduction
	13	Epithelium
	15	Epithelium
	18	MLK - No Classes
	20	Epithelium
	22	Connective Tissue Proper
	25	Connective Tissue Proper
	27	Adipose
	29	Adipose
	Feb	01
03		Cartilage
05		<b>Lecture Exam #1 (Friday)</b>
08		Bone
10		Bone
12		Bone
15		Muscle
17		Muscle
19		Muscle
22		Nerve Tissue
24	Nerve Tissue	
26	Nerve Tissue	

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Mar	08	Heart
	10	Blood Vessels
	12	<b>Lecture Exam #2 (Friday)</b>
	15	Skin
	17	Skin
	19	Esophagus
	22	Stomach
	24	S & L Intestine
	26	Salivary Glands
	29	Pancreas
31	Liver	
Apr	02	Upper Respiratory Tract
	05	Lung
	07	Kidney
	09	<b>Lecture Exam #3 (Friday)</b>
	12	Kidney
	14	Endocrine Glands
	16	Endocrine Glands
19	Testes	
21	Ovaries	
23	Review	

**Lecture Exam #4; Final Exam Period**

## LABORATORY SCHEDULE

Jan 12	Introduction
Jan 19	Epithelial Tissue
Jan 26	Connective Tissue / Adipose
Feb 02	Cartilage
Feb 09	<b>Lab Exam #1 (Tuesday)</b>
Feb 16	Bone
Feb 24	Muscle & Nerve

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Mar 09	Heart & Blood Vessels
Mar 16	<b>Lab Exam #2 (Tuesday)</b>
Mar 23	Skin
Mar 30	Alimentary Canal
Apr 06	Salivary Glands, Pancreas, Liver
Apr 13	<b>Lab Exam #3 (Tuesday)</b>
Apr 20	Kidney / Endocrine Glands

**Lab Exam #4; Final Exam Period**