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<tr>
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Has course content changed? [No] If yes, give a brief topical outline of the revised course below (less than 1500 words)

Credit hours more appropriate to course

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<th>40 (Fall)</th>
<th>List any course(s) to be deleted</th>
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Attach new syllabus reflecting course modifications.
Attach additional documents if necessary.

### Course Approval

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<tr>
<th>Role</th>
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<tr>
<td>Department Curriculum Authority</td>
<td>Linda Miller</td>
<td>6-27-13</td>
</tr>
<tr>
<td>Department Chairperson</td>
<td></td>
<td>11-4-2014</td>
</tr>
<tr>
<td>College Curriculum Authority or Chair</td>
<td>Kandace Welburn</td>
<td>11-6-2014</td>
</tr>
<tr>
<td>College Dean</td>
<td>Ceora</td>
<td>1/19/14</td>
</tr>
<tr>
<td>Graduate Council</td>
<td></td>
<td>4-25-15</td>
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<tr>
<td>Dean of Graduate Studies</td>
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<td>4-28-2015</td>
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### For Administrative Use Only

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University of Toledo - College of Medicine
Human Donation Science Graduate Program
Scientific and Clinical Foundations for Human Organ
Donation and Transplantation
HDSC - 5210
Fall 2014

Class Meetings: See daily schedule.

Credit Hours: 6

Instructors:

Carlos A. C. Baptista, M.D., Ph.D.
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Jeremy Laukka, Ph.D.
Assistant Professor
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College of Medicine
Email: Jeremy.Laukka@utoledo.edu
Block Health Science Building 178
419-383-4936 (phone)  419-383-3008 (fax)
Stanislaw Stepkowski, DVM, Ph.D., DSc
Professor
Department of Medical Microbiology & Immunology
College of Medicine
e-mail: Stanislaw.Stepkowski@utoledo.edu
Health Education Building
419.383.6626 (phone) 419-383-3002 (fax)

Required text:


Recommended Text:

ISBN-978-1-4160-2552-8

Course Description:

This course provides the foundations of the basic science and medical-surgical information required for the organ procurement coordinator. Topics include the anatomy and physiology of various organ systems and essential concepts of pathophysiology, and pharmacology.

Format:

The course is designed to provide the basic scientific understanding of normal function of the human body and the pathophysiological mechanisms of diseases. The course will combine lecture, labs, assignments and a discussion/reflection format.

Topics to be covered in the class are listed on the week to week schedule. Preparation for each class is expected so that the most benefit can be obtained from the experience.

Course Objectives:

At the successful completion of this course the student will be able to:

1. Explain the organizational levels of the body and describe anatomical position.
2. Identify the major systems of the body, and explain the major functions of each system.
3. Explain relationship of body terminology and distinguish among the relative directional terms, regions, planes, and cavities of the body.
4. Describe and list the general functions of the principal structures of a cell.
5. Define tissue and describe the four major tissue groups and functions.
6. Describe the functions of the nervous, cardiovascular, respiratory, renal and gastrointestinal systems.
7. Identify and describe the gross and microscopic anatomical features of the central nervous system, kidney, heart, lung, pancreas, liver and small intestine.
8. Describe the physiology of the central nervous system, kidney, heart, lung, pancreas, liver, and small intestine.
9. Describe the biologic principles that govern changes in cells and tissues to abnormal stimuli and be able to recognize salient features of injured and dying cells.
10. Describe how the body reacts to injury and through the inflammatory process repairs itself, discuss how inflammation can be a cause of disease, and recognize salient features of the inflammatory process in tissues.
11. Demonstrate knowledge of the etiology, pathogenesis, structural and functional manifestations of disease, with emphasis on general disease processes, such as arteriosclerosis, thrombosis, infarction, cancer, and auto-immunity.
12. Identify and describe the major pathology that affects the central nervous system, heart, lungs, pancreas, liver, kidneys, and blood.
13. Identify and describe the pharmacology of the drugs associated with procurement and transplantation of the central nervous system, heart, lungs, pancreas, liver, kidneys, blood and immune system.

Weekly Reading Assignments:

Weekly reading assignments are designed to facilitate learning interaction with the weekly lectures. You are expected to read assigned paper and post your comments on the WebCT/Blackboard discussion board. Posts should be original and well written. Students will begin a new thread with his impression on the reading. Students will post comments/replies/questions to posts made by 2 other students. The point is to engage in meaningful discussion. Each week's reading assignment will begin on Monday. Weekly reading assignments are due by 12:00 noon on Monday following the week of the class. (See reading and posting schedules in Blackboard).

A portion of your grade (20%) will be based on your weekly on-line postings. Points for discussion board postings are determined via a combination of frequency, quality and length of postings as well as the number of responses generated. A five-point scale is typically used [0=no participation thru 5=excellent].

These sessions are designed to reinforce and extend the course content through student participation.
**Academic Integrity:**

If an instructor has evidence that an act of academic dishonesty has occurred, it may result in an automatic "F" being issued to the student or students involved. Examples of academic dishonesty include cheating on tests, having someone sit in for you to take a test on your behalf, copying another person's work as your own (e.g. plagiarism), using outside sources without giving proper credit, using untrue excuses for missed or late work, etc.

**Blackboard:**

Important information will be posted routinely on Blackboard, including handouts, PowerPoint presentations, grades, links to useful resources, etc. All announcements posted on Blackboard are important and we will assume you have read them.

**Grading Criteria:**

Grades will be determined by completion of designated class projects and assignments (see below for more detail). The instructor reserves the right to assign a grade of incomplete for work not completed by the end of the semester.

- **Reading Assignment (6@5% each)** 30%
- **Quizzes (6 @ 8% each)** 70%

Grades are usually assigned on the following basis:

- **A** 95-100%
- **A (-)** 90-94%
- **B (+)** 87-89%
- **B** 84-86%
- **B (-)** 80-83%
- **C (+)** 77-79%
- **C** 74-76%
- **C (-)** 70-73%
- **D (+)** 67-69%
- **D** 64-66%
- **D (-)** 60-63%
- **F** 0 to less than 60%