INSTRUCTOR:
Julie Davis, PT
CASA 114B
618-453-3618
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OFFICE HOURS:
M/W 10:00 am - 11:00 am
Friday 10:00 am – 2:00 pm
or by appointment

CLASS SCHEDULE:
Lecture
ASA room 064
Monday & Wednesday 11:00 am – 11:50 am

TEXTBOOK:
Required

Recommended
Web version at www.merckmanuals.com


Medical Dictionary

PREREQUISITES: PHSL 201 & 208 or AH 241; Restricted to PTH major.

PREREQUISITE TO: PTH 321a, 321b, 322

COURSE CATALOG DESCRIPTION:
Students will be able to describe the fundamental basis of disease including inflammation, cardiovascular diseases, vascular diseases, orthopedic conditions and repair of bone and soft tissue injuries. Emphasis will be placed on those conditions treated through physical therapy procedures.
COURSE OBJECTIVES:
Upon successful completion of this course, the student shall be able to:
1. Describe and explain the effects of hypoxia on cellular degeneration
2. Describe the stages of wound development.
3. Describe the proper procedure for the application and removal of dressings.
4. Identify the precautions associated with dressing removal.
5. Recognize normal and abnormal integumentary changes.
6. Differentiate between viable and non-viable tissue.
7. Describe and explain the normal process of tissue injury, inflammation, repair and regeneration.
   - describe and explain the effect of disease states on the normal process of healing.
8. Describe the etiology, pathogenesis, signs, symptoms, epidemiological factors and treatment of various diseases and disorders of the following systems:
   A. Blood and the vascular system
   B. Heart
   C. Bone, Muscle and Joints
9. Describe and explain the different types of fractures and their etiology.
10. Describe and explain the common complications of fractures and fracture healing.
11. Describe and explain the different treatment approaches to fractures.
12. Differentiate between rheumatoid arthritis and osteoarthritis with respect to etiology, epidemiology, primary pathology and major characteristics.
13. Relate the physical therapy treatment plan and goals to the pathology of rheumatoid arthritis.
14. Relate the physical therapy treatment plan and goals to the pathology of osteoarthritis.
15. Explain the process of normal fluid transmission at the capillary bed.
16. Describe the different types of edema as well as possible etiologies.
17. Name and describe the different types of emboli with their etiologies.
18. Explain the etiologies and processes of hemorrhage and hemostasis.
19. Differentiate between genetic and congenital disorders in terms of etiology.
20. Differentiate between autosomal dominant, autosomal recessive and sex-linked disorders in terms of etiology and transmission.
21. Describe the etiology, pathogenesis, signs, symptoms and potential treatments of neoplasia.
22. Define and use common prefixes, suffixes and terminology in describing pathology of disease and trauma.
* Fulfillment of each objective will be determined by written examination.
**OUTLINE OF TOPICS OF LECTURE:**

| WEEK 1  | Introduction to Disease |
| W 2     | Inflammation, Immunity and Allergy |
|         | Chapter 1; p. 9-14 Chapter 2; p. 34-41 |
|         | (also Cameron – to be provided) |
| W 3     | **HOLIDAY** - Healing and Repair |
|         | Chapter 1; p. 14-23 |
| W 4     | Wounds and Wound Management |
| W 5     | Neoplasia |
|         | Chapter 2; p. 45-50 |
| W 6     | Hereditary Diseases |
|         | Chapter 2; p. 51-70 |
| W 7     | *(EXAM 1)* |
| W 8     | **FALL BREAK** - Review of Circulatory Anatomy |
|         | Chapter 3; p. 79-86 |
| W 9     | Diseases of the Heart |
|         | Chapter 3; p. 87-107 |
| W 10    | Cardiac Rehabilitation |
|         | Chapter; p. 106-107; p. 117-118 |
| W 11    | Diseases of the Blood Vessels and Blood |
|         | Chapter 3; p. 107-117 |
| W 12    | Hemorrhage, Hemostasis and Shock **-HOLIDAY** |
|         | Provided |
| W 13    | Edema |
|         | Provided |
| W 14    | *(EXAM 2) - HOLIDAY* |
| W 15    | Fractures |
|         | Chapter 1; p. 23-27 |
| W 16    | Diseases of Bone, Muscle and Joints |
|         | Chapter 5, 6 |
|         | *(EXAM 3)* |
| W 17    | FINAL EXAM – Friday December 18, 10:15 am |
DESCRIPTION OF TEACHING METHODS AND LEARNING EXPERIENCES:

This course is taught in a lecture format. Students will be provided reading assignments for each lecture topic. Lectures may utilize power point presentations. Individual lecture outlines and additional information will be available to students via Desire 2 Learn.

STUDENT EVALUATION:

5 Unannounced Quizzes------50 points
3 Hourly Exams - 100 points each
1 Final Exam (Cumulative) - 100 points
TOTAL - 450 points

Quizzes – There will be 5 unannounced quizzes worth 10 points each. Each quiz will cover the reading material and previous lecture material for the section since the previous exam. Quizzes will be given at the beginning of class beginning at 11:00 am EXACTLY. All quizzes will be collected NO LATER THAN 11:15 am. No make up quizzes will be given.

Hourly Exams - Exams may consist of any combination of multiple choice, matching and/or short answer questions. Exam questions will be generated from both lecture and assigned readings.

Final Exam - There will be four (4) exams during the course. There will be three (3) hourly exams covering the material discussed since the previous exam and one (1) cumulative final exam will be given during the University scheduled final exam time for the course. Exams may consist of any combination of multiple choice, matching and/or short answer questions.

Every student is expected to be present during exams in order to receive a grade for that exam. If, due to extreme circumstances, you are not able to be present during the scheduled exam time, you must contact the instructor PRIOR to the scheduled exam time to notify her of your absence and arrange for a date and time to make up the exam. Missed exams must be made up prior to the next scheduled class time or a grade of zero will be received for that exam.

Each student's final grade will be determined on a percentage of total points:
A = 90 - 100% - 405 - 450 points
B = 80 - 89% - 360 - 404 points
C = 70 - 79% - 315 - 359 points

NOTE: A grade of C or above is required for the Physical Therapist Assistant Program.

Professional Behavior - The development of professional behaviors is essential to any aspiring health care professional. One realm of professional behavior lies in the expectation of the person to be punctual, prepared and present.
**Student Grades/Confidentiality** – No information regarding student grades or class progress will be communicated via telephone or email. All grades will be posted on Desire2Learn as soon as they are available. If you have questions regarding current course grades or course information, students must speak directly with the instructor. This may be possible either immediately before or after class, during office hours or by making an appointment to meet with the instructor.

**Classroom Attendance Policy** – This is a professional program. Attendance in class is expected, but is the responsibility of the student. Students should be prepared to participate in class at the designated start time for the course. Prepared means the student is seated in the class with all necessary classroom supplies available to them and assignments due that day are turned in to the instructor. The University Policy on Accommodating Religious Students may be found in the 2015-2016 Undergraduate Catalog, p. 565.

**Academic Dishonesty** - Each student is responsible for making himself/herself aware of the policies and procedures in the Student Conduct Code that pertain to Acts of Academic Dishonesty. These policies cover such acts as plagiarism, preparing work for another student, cheating by any method or means, falsifying or manufacturing data, furnishing false information to a university official relative to academic matters, and solicitation, aiding, concealing, or attempting conduct in violation of this code. See the Morris Library Guide on Plagiarism (http://libguides.lib.siu.edu/plagiarism).

**Disruptive Behavior Policies** – As with any public forum, the classroom is a shared space where consideration and compassion for others are not negotiable. To learn the interpersonal and professional skills offered in the course requires that, as with a sport or any instrument, we practice them daily. A positive attitude, a willingness to listen and learn, and an embrace of differences as well as similarities…these are just a few of the dynamics we will strive to practice.

Sexual harassment, either verbal or physical, will not be tolerated in this class, this program, or at Southern Illinois University Carbondale. Students engaged in harassing behavior will be removed from the program immediately.

SIU contains people from all walks of life, from many different cultures and sub-cultures, and representing all strata of society, nationalities, ethnicities, lifestyles, and affiliations. Learning from and working with people who differ from you is an important part of your education in this class, as well as an essential preparation for your career.

**Electronic Devices** - The use of electronic devices, such as cell phones, will not be permitted in the classroom. All electronic devices should be TURNED OFF when entering the classroom. In the case of an emergency, persons may call the School of Allied Health office at (618) 453-7211 and a message will be delivered to the classroom.
**SIU Emergency Procedures** - Southern Illinois University Carbondale is committed to providing a safe and healthy environment for study and work. Because some health and safety circumstances are beyond our control, we ask that you become familiar with the SIUC Emergency Response Plan and Building Emergency Response Team (BERT) program. Emergency response information is available on posters in buildings on campus and the Emergency Response Guideline pamphlet. It is also available on BERT'S website at [http://www.bert.siu.edu/](http://www.bert.siu.edu/) and on the Department of Safety's website [www.dps.siu.edu](http://www.dps.siu.edu).

Instructors will provide guidance and direction to students in the classroom in the event of an emergency affecting your location. It is important that you follow these instructions and stay with your instructor during an evacuation or sheltering emergency. The Building Emergency Response Team will provide assistance to your instructor in evacuating the building or sheltering within the facility.

**Supplementary Assistance** – With the cooperation of SIU’s Disability Support Services (DSS), each student who qualifies for reasonable supplementary assistance has the right to receive it. Students requesting supplementary assistance must first register with DSS in Woody Hall B-150, (453-5738) or [http://disabilityservices.siu.edu/](http://disabilityservices.siu.edu/).

Notice: If you have any type of special need(s) or disability for which you require accommodations to promote your learning in this class, please contact the instructor as soon as possible. The Office of Disability Support Services (DSS) offers various support services and can help you with special accommodations. You may wish to contact DSS at 453-5738 or go to Room 150 in Woody Hall to verify your eligibility and options for accommodations related to your special need(s) or disability.

**Saluki Cares** – The purpose of Saluki Cares is to develop, facilitate and coordinate a university-wide program of care and support for students in any type of distress—physical, emotional, financial, or personal. By working closely with faculty, staff, students and their families, SIU will continue to display a culture of care and demonstrate to our students and their families that they are an important part of the community. You may contact Saluki Cares at (618) 453-5714 or [siucares@siu.edu](mailto:siucares@siu.edu).

SIU PTA course materials, including the course syllabus are not to be duplicated without consent of the SIU PTA Program.