

**SUMMER  
PT 431  
GROSS ANATOMY**

**Time:**

**Gross Anatomy:**

Lecture:	8:00 – 10:00	Monday through Thursday
Lab A:	10:00 – 12:00	Monday through Thursday
Lab B:	12:00 – 2:00	Monday through Thursday

**Lab Exams:**

(First Week Exam 1)

Lab A	9:30 – 10:10	Friday
Lab B	10:20 – 11:00	Friday

(2<sup>nd</sup> through 5<sup>th</sup> weeks):

Lab A	9:30 – 10:40	Friday
Lab B	10:50 – 12:00	Friday

(6<sup>th</sup> week Final Lab Exam):

Lab A	9:30 – 10:40	Friday
Lab B	10:50 – 12:00	Friday

Surface Anatomy and Palpation Lab:

Lab B:	9:00 – 10:25	Wednesday
Lab A:	10:35 – 12:00	Wednesday

**Gross Anatomy Instructor:**

Dr. Donald Rodd

Office:	WGH 221
Office Phone:	488-1026
Email:	dr24

**Palpation Lab Instructor:**

Dr. Kyle Kiesel

Office:	WGH 206
Office Phone:	488-2646
Email:	kk70

**Course Description**

This course is designed for students within the physical therapy program. Emphasis is placed on the gross anatomy of the human skeletal, muscular and nervous systems.

Knowledge of Gross Anatomy provides students with a sound foundation upon which other courses in the Physical Therapy curriculum can directly or indirectly be related. The content of this course is presented in a regional approach, in other words when viewing the cadaver you must know all of the structures you see. Gross Anatomy is best learned in the laboratory through careful dissection of the human body and this course is primarily a laboratory experience.

## **Attendance**

Class attendance is mandatory, particularly attendance to the lab sessions. Please arrive for class on time. Excused absences will be honored. Excused absences include, but are not limited to, documented illnesses, competitive sports and sanctioned university activities. If you have an excused absence and know about it ahead of time, please contact me about this, not the lab instructors. **If a student has two unexcused absences, he or she will fail the course. One unexcused absence will result in the lowering of the student's grade by one full letter.** For more information regarding class attendance in general, please see the Physical Therapy Department's policy regarding class attendance (Class/Lab Attendance Policy).

## **Behavior**

We are squeezing 16 weeks of Anatomy into 6 weeks of Summer School. Personally, I believe this is a great way to learn the subject, through complete immersion. You may disagree and I would be happy to discuss or debate this with you after the summer session is over. During the 6-week class session, please relax and try to enjoy the class. We can play music in lab (within reason) during dissection days to keep a relaxed atmosphere, but please always act in a professional manner. This includes the lecture portion, please don't listen to your mp3 type player, read/send email or access the internet, this especially includes visiting any social networking sites. For more information, please see the Physical Therapy Department's policy regarding professional behavior.

## **Gross Anatomy Objectives**

- To provide the student with a basic knowledge and principles underlying the gross structure and function of the human body.
- To provide an actual physical and visual experience with the structures of the human body.
- To provide an opportunity for detailed study of the various systems of the human body.
- To provide a sound foundation for the study of all other courses in the physical therapy curriculum
- To introduce the relationship of human anatomy to clinical applications.
- To provide teaching activities for the study of surface anatomy and palpation.

## **Gross Anatomy Required Textbooks (Lecture and Lab):**

- Clinically Oriented Anatomy, Moore, Dalley and Agur, 6th edition, 2010 (Main Textbook for PT 431).
- PT 431 Lab Manual (This manual provides daily dissection instructions. Please purchase from Tana, PT administrative assistant)
- Illustrated Essentials of Musculoskeletal Anatomy, Sieg & Adams, 5<sup>th</sup> edition (Main Textbook for O, I, A, N and Spinal Segments).
- Anatomy: A Regional Atlas of the Human Body, Clemente, 6<sup>th</sup> edition (Main Textbook for the lab).
- Physical Examination of the Spine and Extremities, Hoppenfeld, Stanley. ISBN: 0-8385-7853-3 (Palpation Lab Textbook).

## **Gross Anatomy Recommended Textbooks** (These are NOT required)

- A good Medical Dictionary like: Stedman's Medical Dictionary for the Health Professions and Nursing. 6<sup>th</sup> edition, Lippincott Williams & Wilkins.
- Atlas of Clinical Gross Anatomy, Moses, Banks, Nava and Petersen, 2005.
- Netter Atlas of Anatomy.
- Grant's Atlas of Anatomy.
- Thieme Atlas of Anatomy.
- Lippincott Williams and Wilkins Atlas of Anatomy.
- A.D.A.M. Student Atlas of Anatomy, Olson.

### **Testing**

Lecture	Quizzes	6	90 pts
	Exams	2	180-200 pts
Laboratory	Practicals	6	460 pts

All examinations are comprehensive. Quizzes cover reading material from textbook and lecture material. Laboratory exams require structural identification using the cadavers as well as information regarding the structures involved. Bone anatomy will be at the detail from the IE, Moore and Clemente textbooks. Final Lab exam is comprehensive and covers material from the beginning of the course. NO MAKE-UPS OR EXTRA CREDIT WILL BE PROVIDED IN THIS CLASS.

### **Grading (%):**

92 – 100	A	78 – 79	C+
90 – 91	A-	75 – 77	C
88 – 89	B+	73 – 74	C-
83 – 87	B	70 – 72	D
80 – 82	B-	< 70	F

### **YOU MUST HAVE A C OR BETTER TO PASS THIS COURSE.**

### **Academic Integrity:**

If you are caught cheating any time during the semester, your course letter grade will be F. No exceptions and no second chances. Please see the Physical Therapy Department's policy regarding academic integrity and program progression.

### **Students with Disabilities:**

It is the policy and practice of the University of Evansville to make reasonable accommodations for students with properly documented disabilities. Written notification to faculty from the Office of Counseling and Health Education is required for any academic accommodations. If you are eligible to receive an accommodation and would like to request it for this course, please discuss it with me and allow two weeks notice. Otherwise, it is not guaranteed that the accommodation can be received on a timely basis. If you have questions about services for students with disabilities or procedures for requesting services, you may contact the Office of Counseling and Health Education at 488-2663.

### **Study Tips**

I recommend that you prepare a set of study notes that combines lecture, lab, reading and any other study aids you incorporate. These notes will have everything you need in one handy source. In addition, this forces you to become actively involved in learning and not merely a passive observer.

When you begin to read a chapter, first read the introductory page or paragraph. With this introductory information, determine the organization and approach of the chapter. Make sure you understand the "big picture". Begin by examining the figures, tables and graphs. Then write down the major subject headings and learn them. Then examine and write down the subheadings leaving room for details. Finally, read the details and fill in the areas in the subheadings. Don't write everything down; examine the figures; you can learn a lot just by looking.

When studying, make sure you use your atlas to preserve the big picture. Many students have memorized their way to "success" by isolating systems and memorizing each system independently. When all systems are together, as is the case in this class, many students become overwhelmed and have difficulty incorporating all the material. To overcome this potential problem, always study with the whole organism present. If isolating a system, make sure you have a picture of the system as it appears in vivo to help you keep your perspective. Use your atlas.

**Another potential problem for students is that they are too literal. Many times the information in books represents a "best case" or a consensus of information boiled down to a best fit. In your classes after gross, your instructor may be more specific, don't panic just have the flexibility to add more information. If you understand the material and perform well in gross anatomy, you should have no problem with adding more information or altering information in the future.**

As you study, make notes and drawings to reinforce and help you remember what you have read. Don't cram, keep up and review the material regularly.

### **Internet Links to Anatomy Sites**

Visit the PT 431 web site at <http://faculty.evansville.edu/dr24/390.html> for some links to anatomy sites on the internet.

### **Tentative Lecture Schedule**

Week 1	Welcome Introduction Chapter / Overview Back – Superficial and Deep
Week 2	Back – Superficial and Deep Neck Shoulder Brachial Plexus
Week 3	Brachial Plexus Upper Limb Hand
Week 4	Hand Superficial Thorax & Abdomen Gluteal Area
Week 5	Gluteal Area Lower Limb / Foot
Week 6	Chest – Heart, Lungs, Vasculature Head CNS Head CNS

### **Laboratory Outline**

If you finish dissecting an area, please consult with the lab instructors before continuing.

Week 1	Anatomy of Skeletal System Introduction to dissection Superficial Back, Shoulder (Posterior) Deep Back Mini LAB EXAM 1-40 pts
Week 2	Deep Back Neck Shoulder (anterior) (Begin dissecting) Brachial Plexus LAB EXAM 2-80 pts
Week 3	Shoulder Joint (dissection by instructors) Brachial Plexus Upper Limb – Arm and Forearm LAB EXAM 3-80 pts
Week 4	Hand Thorax & Abdomen – Superficial Gluteal Area LAB EXAM 4-80 pts
Week 5	Lower Limb (Anterior and Posterior) Foot Knee & Ankle Joints (dissection by instructors) Start Face LAB EXAM 5-80 pts
Week 6	Face – muscles, nerves and vessels Central Nervous System Internal Anatomy Thorax & abdomen Circulatory system Heart & major vessels LAB EXAM 6 100 pts <b><u>FINAL LAB EXAM IS CUMULATIVE</u></b>