Anatomy 611
(Lexington campus only)

Spring 2003
Regional Human Anatomy

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Lectures, Tues & Thurs  1-2:50 p.m. in HSLC 115
Laboratory Sessions follow in UKMC MS 203 from 3-5 p.m.

** All exams from 1-3 p.m. in MS 203; from 3-5 p.m. in HSLC 115 **

| January 7 | Lecture: | Introduction
|           |          | The Superficial Back
|           | Lab Session 1: | Superficial Back, pp. 4-9

| January 9 | Lecture: | Spinal Cord and Typical Spinal Nerve
|           |          | Posterior Triangle of the Neck
|           | Lab Session 2: | Spinal Cord/Posterior Triangle, pp. 10-13

| January 14 | Lecture: | Autonomic Nervous System
|            |          | Brachial Plexus
|            | Lab Session 3: | Posterior Triangle/Pectoral Region, pp. 14-19

| January 16 | Lecture: | Referred Pain
|            |          | Regional Anatomy of the Upper Limb I
|            | Lab Session 4: | Shoulder/Axilla, pp. 20-28

| January 21 | Lecture: | Regional Anatomy of the Upper Limb II
|            |          | Regional Anatomy of the Upper Limb III
|            | Lab Session 5: | Compartments of Arm & Forearm, pp. 28-40
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<td>January 23</td>
<td>Regional Anatomy of the Upper Limb Arthrology - classification of joints</td>
<td>Lab Session 6: The Hand, pp. 41-45</td>
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<td>January 28</td>
<td>Functional Anatomy of the Upper Limb</td>
<td>Lab Session 7: Complete dissection of the hand, pp. 41-45</td>
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<td>January 30</td>
<td>Functional Anatomy of the Upper Limb</td>
<td>Lab Session 8: Complete Dissection of Upper Limb, pp. 28-45; and Joint Prosections, pp. 46-48</td>
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<td>February 4</td>
<td><strong>Exam I (Back &amp; Upper Limb) - 25% course grade</strong></td>
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<td>February 6</td>
<td>Deep Back Muscles Trunk Wall</td>
<td>Lab Session 9: Completion of Dissection for Exam I, p. 52</td>
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<td>February 11</td>
<td>Inguinal Region Pleura and Lungs</td>
<td>Lab Session 10: Muscles of the Trunk and Prosections, pp.49-51 Anterior Thoracic/Abdominal Walls, pp. 56-63</td>
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<td>Heart I Heart II</td>
<td>Lab Session 11: Middle Mediastinum, pp. 68-73</td>
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<td>February 18</td>
<td>Superior Mediastinum Posterior Mediastinum</td>
<td>Lab Session 12: Posterior/Superior Mediastina, pp. 74-76</td>
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<td>Peritoneum and Sacs Abdominal Viscera I</td>
<td>Lab Session 13: Abdomen and Contents, pp. 77-81</td>
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February 25  Lecture: Abdominal Viscera II
Retroperitoneal Viscera

Lab Session 14: Retroperitoneal Structures and Posterior Abdominal Wall, pp. 82-85

February 27  Lecture: Abdominal Vasculature
Posterior Abdominal Wall

Lab Session 15: Completion of Dissection for Exam II

March 4  Exam II (Trunk, Thorax and Abdomen) - 25% course grade

March 6  Lecture: The Pelvis
Pelvic Organs

Lab Session 16: If you have a male cadaver (also do female)
Lab Session 17: If you have a female cadaver (also do male)

March 11  Lecture: Pelvic Vasculature
External Genitalia of Male/Female

Lab Session 18: Dissection of the pelvis

March 13  Lecture: Perineum of Male/Female

Lab Session 19: Complete your dissection and examine the perineal prosections

March 18 & 20  Spring Break

March 25  Lecture: Gluteal Region
Regional Anatomy of the Lower Limb

Lab Session 20: The gluteal region

March 27  Lecture: Regional Anatomy of Lower Limb
Regional Anatomy of Lower Limb

Lab Session 21: Thigh and popliteal fossa
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| April 1  | Regional Anatomy of Lower Limb  
Functional Anatomy of Lower Limb |                                                                 |
|          | **Lab Session 22:** Leg and foot |                                                                 |
| April 3  | Functional Anatomy of Lower Limb  
Functional Anatomy of Lower Limb |                                                                 |
|          | **Lab Session 23:** Joints of the lower limb by prosection and complete dissection for Exam III |                                                                 |
| April 8  | Anterior Triangle of Neck  
Root of the Neck |                                                                 |
|          | **Lab Session 24:** Anterior triangle and root of neck |                                                                 |
| April 10 | **Exam III (Pelvis, Perineum & Lower Limb) - 25% course grade** |                                                                 |
| April 15 | Superficial Face  
Infratemporal Fossa |                                                                 |
|          | **Lab Session 25:** Superficial dissection of the face (one side) and superficial dissection of infratemporal fossa (on the other) |                                                                 |
| April 17 | Cranial Contents  
Cranial Nerves I |                                                                 |
|          | **Lab Session 26:** Complete dissection of neck, face and infratemporal fossa and study deep infratemporal fossa on dental dissections |                                                                 |
| April 22 | Cranial Nerves II  
Pharynx & Palate |                                                                 |
|          | **Lab Session 27:** Cranial cavity |                                                                 |
| April 24 | Nasal Region  
Oral Region |                                                                 |
|          | **Lab Session 28:** The head in sagittal section |                                                                 |
Be Sure You Read This Material

Information Concerning Anatomy 611/811

Why do the Notes say Anatomy 611/811?

Anatomy 611 and 811 are essentially the same course. The Programs of the student groups involved (PA and PT students, as well as selected post bachs) necessitate having different numbers. PA students are already in the Graduate School and must enroll in courses with 500 or 600 level designations. The PT students are not as yet in the Graduate School and as such simply use professional level (800) designations. The curriculum does not differ, although the grading scale does (see the section on “Course Grades and Grading Policies”).

Dealing With Death and Cadaveric Dissection:

The fact that many of you have not had to deal with the death of a friend or family member to this point, or ever had contact with a dead body, is a concern that many students have facing the gross anatomy laboratory experience. Much has been written about this experience by faculty, experts, and more importantly fellow students who have gone through this before you. Visit the course web site:

http://www.uky.edu/~brmacp/ANA811.htm

where links to a number of these experiences that are available on the web can be found. A statement concerning the Body Bequeathal Program at the University of Kentucky (about which you will be orally informed) is also located there. You are encouraged to visit the site and read these materials.
“I’ve Taken This Course, or a Course Similar to it, Before”:

The Department of Anatomy and Neurobiology, University of Kentucky College of Medicine, has an established policy with regard to students requesting to audit/be exempted from professional anatomy courses due to prior completion of the same or a similar course. Courses thought by the student to be similar to ANA 611/811 must be assessed by a departmental instructional equivalency evaluation. The student must provide a full syllabus of the course they have taken elsewhere that will provide sufficient information to assess whether the information in that course was of similar depth and breadth. In any case, the following regulation applies:

“A student who has taken the same course, or a course considered to be equivalent by a departmental course equivalency evaluation, the year prior to admission into their program, and received a grade of A, will be exempt from retaking the course. In all other situations, regardless of length of time from having taken the course, or grade obtained, the student will be required to retake the course for a grade”.

General Course Information:

This course has been designed specifically for Physical Therapy and Physician Assistant students. The primary objective of the course is to present clinically-related gross anatomy principles in a lecture format followed by a dissection lab session. The lab session will allow students to get a three-dimensional/functional appreciation for the relationships of the various structures in each anatomical region.

Lectures involve completion or highlighting of material distributed in the lecture notes. *It is therefore advisable to bring colored pen/pencils to lecture.* Use of color has been proven to be an educational tool that enhances learning. We use color coordination or designation of systems and/or structures as critical tools to help you to understand the structure and/or region being studied.

Dissection is considered a very important aspect of this course. It reinforces and demonstrates the importance of the material dealt with in lecture. Fifty percent (50%) of your grade on each of the 4 exams in the course will come from the laboratory practical exam. *Absence from laboratory sessions (skipping) will not be tolerated for any reason* other than those outlined by the University Senate. To this end, attendance will be taken randomly during the laboratory at tables where 6 individuals are not obviously present. *Missing more than 3 laboratory sessions, for unexcused reasons, will result in a 10% reduction in your final grade.*

The majority of osteology, radiology and cross-sectional anatomy in the course will be left to each student to accomplish by independent study from your atlas and/or the CD-ROM included with this course pack. The structures you will be held responsible for, on each of the 4 exams in this course, are listed in tabular fashion in the dissection manual.

Twenty-four hour access, based on the magnetic Simplex Security coding on your Medical
Center ID badge, is provided to the laboratory for review and/or completion of the dissections between scheduled labs. **This access is a privilege** and will be **revoked** if appropriate care of the cadaveric material and/or appropriate personal demeanor is not exhibited. **Remember that all the cadavers in the lab will be used on each practical exam** so you need to be familiar with all 16, not just your own. In addition to anatomical variations, and overall size of structures between a 98 pound bed-ridden female and a 250 pound male construction worker, are striking and size itself can be very disorienting. Your extra time in the lab is used not only to finish up/study your own dissections, but to ensure you have seen the other 15 cadavers.

It is advisable to wear light weight, easily-washed clothing to the lab. Surgical scrubs may be purchased at the bookstore or through medical supply houses. In addition to scrubs, disposable latex gloves (available at the bookstore or through medical supply houses) should be worn at all times.

*The wearing of shorts and open-toed sandals is not permitted in the lab* due to safety and OHSA regulations. *Baseball caps are NOT permitted* out of respect for the cadavers.

If you wear contact lenses, you may find the preservatives in the cadaveric material irritate your eyes. Switching to normal glasses alleviates this problem.

Please place lab wastes (such as cadaveric material removed by dissection), paper towels, old/broken scalpel blades ONLY in their appropriate disposal containers.

A maximum of six students will be assigned to each cadaver. You are expected to work in groups, each group dissecting one side of the body. **For full lab grades both sides of the body must be dissected.** At the time of each lab exam, the instructor will grade your dissection on completeness/thoroughness. *Any group not getting at least 90% completeness on each exam region, will have 10% deducted from their final grade applied to everyone at that table!* Aside from the dissection manual, each group of three students **must have an atlas present during the lab.** Without an atlas you will not be able to appropriately accomplish the days dissection. *The instructor(s) do not feel obligated to help any table that does not have an atlas present and open to the appropriate area.*

There are certain rules concerning use of the gross anatomy lab which **must be strictly adhered to:**

- no food or drink whatsoever may be taken into the lab
- no visitors (friends, relatives, etc.) may be taken into the lab without prior permission of the course director
- no cameras or other photographic equipment may be taken into the lab at any time
- no cadaveric material leaves the lab at any time for any reason
- unprofessional behavior will not be tolerated in the lab

*Appropriate dissection tools will be provided.* However, students are responsible for providing their own scalpel blades (**No. 22 or similar** - rounded profiles only). You will need at least 5 blades to begin the first session as they dull very rapidly during skinning.
Course Grades and Grading Policies:

The **final course grade** will be determined by cumulative points from all written and practical examination points. *From this total, a maximum of 10% may be deducted for lack of regular lab attendance or incomplete dissection requiring instructors to dissect structures on the cadaver for the practical exam.* For each exam the ratio of weighting between written and practical material will be 50:50.

**Written examinations** will be composed of questions based on lecture and self-study materials. The question format will vary. Multiple choice questions will comprise no more than 50% of each examination. Other question formats will include relating basic anatomical facts to clinical scenarios, short answer, diagrams and matching.

*** Simply memorizing the factual material and being able to answer the *Learning Objectives* is **NOT** sufficient to obtain a grade of A in this course. You must be able to extrapolate the material you have memorized, think critically and use this information to answer clinically-oriented/functional questions.

**Practical examinations** will predominantly utilize the cadavers you have dissected. In addition, selected prosections (previously dissected specimens), bone specimens and X-rays will supplement the examination materials. You will have one minute at each station in which to answer a single question. All answers will be written. During practical exams, you **are not allowed to touch the specimen**. Anyone caught touching or otherwise rearranging pins/probes/arrows etc. will be asked to leave the exam and will receive a 0 (zero) for that practical exam. At the end of each exam you will be given 3 minutes to re-examine any station you may not have been able to answer, or have doubts about.

**Grading Scale in ANA 611:**

Due to the regulations of The University of Kentucky Graduate School, *students enrolled in the PA Program, and any graduate or post bach student*, must obtain a **C** or greater. *A final grade lower than 69.5% will be considered a failing grade for this group of students.*

The following grade ranges will be applied to the various letter grades in ANA 611:

\[
\begin{align*}
A &= 89.5+; \\
B &= 89.4 - 76.5; \\
C &= 75.4 - 69.5; \\
E &= <69.4%
\end{align*}
\]

**Grading Scale in ANA 811:**

The following grade ranges will be applied to the various letter grades in ANA 811:

\[
\begin{align*}
A &= 89.5%+; \\
B &= 89.4 - 79.5; \\
C &= 79.4 - 69.5; \\
D &= 69.4 - 59.5; \\
E &= <59.4%
\end{align*}
\]

*Grades are **NOT** curved in this course*
The retake examination policy is as follows:

A student obtaining a final grade within 10% of the passing grade assigned in that course, will receive a failing grade for the course but be entitled to a retake examination to be administered at a time determined by the course co-ordinator, the student and the director of the student’s program. A student receiving a final grade greater than 10% below the passing grade for the course will be required to retake the course the following year - if allowed by the student’s Program. In all courses the retake examination will be comprehensive and will include written and lab practical portions. The student must get a combined average in excess of the passing grade set for the course to have successfully passed the retake exam. Regardless of the grade obtained on the retake exam, the student will receive the lowest passing letter grade utilized by the college or program.

Professionalism

At this point in your academic career you have just entered a professional undergraduate program. To describe someone as a “professional” is to acknowledge the many traits and abilities exhibited by an individual that are consistent with professionalism. As a class of professional undergraduate students it goes without saying that certain behaviors create the decorum of the classroom. One important ingredient in professionalism is civility. Faculty and students alike expect a certain degree of respect from each other, regardless of the similarity or divergence of viewpoint and irrespective of age or experience.

As faculty members assigned responsibility for this course we have been charged with ensuring the appropriate educational outcomes for you, both initially as well as further down the line in your board exams. One of the expected outcomes in every course is a professional attitude from you in response to being treated as future professionals in your chosen field. Instilling professionalism in our students early in their career path is designed to assure that they later treat both colleagues and patients in a professional manner, the lack of which can severely compromise their future in both personal and financial ways.

Professional classroom decorum involves the participation of both faculty and students alike. While we endeavor to treat you as mature, responsible individuals we expect you to behave in a professional manner. Classroom behavior regarded as unprofessional includes:

- habitual tardiness
- talking during lecture
- reading newspapers/doing crossword puzzles
- napping/sleeping
- allowing your cell phone or pager to ring audibly
- using smokeless tobacco
- creating an adversarial atmosphere
Textbooks:

Each student must purchase the Lecture Notes/Dissection Manual course packet plus an atlas. The atlas is an indispensable resource. **You MUST have a copy of Grant’s Atlas at each table.** Students at each dissecting table, have in the past, pooled together to purchase a second-hand copy for use solely in the lab - not wanting their own personal copy to get greasy. A personal copy is essential for home-study/review and completing self-study of bone markings. The Dissection Manual has been written specifically for this course and is keyed only to figures from Grant’s Atlas of Anatomy. While you are free to use any atlas for personal study, lab dissection will be facilitated by using Grant’s. **The purchase of a textbook, while optional, is highly recommended.**


** PT students often prefer the more in-depth: *Clinically Oriented Anatomy*, 4th edition, K.L. Moore & A.F. Dalley.**


** the *Course Note Pak* is only available in the U.K. Medical Bookstore **

Dated 09/06/02