

**ANA6105 - GROSS ANATOMY ONE  
GENERAL SYLLABUS AND LECTURE SCHEDULE  
WINTER TRIMESTER, 2009**

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Office hours: Mondays and Tuesdays, 7:30 – 9:30 p.m. and by appointment.

This course is composed of a gross anatomy lecture sequence and a gross anatomy laboratory sequence. There are several assist instructors in the laboratory. Most are faculty members and you will encounter most of them again as lead instructors of other courses later in the program. A few of them may be teaching assistants who are advanced students of exceptional academic standing and ability.

**ATTENDANCE REQUIREMENTS:**

The maximum allowable absence set by Academic Affairs in all classes is 20%.

Some courses may set attendance requirements at a lower allowable absence rate due to course content or structure, but may not exceed 20% allowable absence.

Greater than 20% absence or noncompliance with specific attendance policies, detailed in course syllabi or the Health Center manual, will result in a grade of XF being awarded, in which case the entire course must be repeated in its entirety.

**DISCLAIMER STATEMENT:**

**This syllabus is a representation of the course content, organization and evaluation processes. The faculty teaching this course reserve the right to reasonably alter the sequence of activities, evaluation and assignment dates, and evaluation and assignment methods or styles. Every effort will be made to inform the class members in advance of such changes. Students are responsible for following the syllabus and any changes instituted by the faculty.**

**HEALTH CLEARANCE POLICY**

New York Chiropractic College considers it in the best interest of students to obtain appropriate and periodic health screenings. NYCC provides such health clearance examinations to all students through the Campus Health Center at no charge.

ÿ All first trimester students are required to receive a complete physical examination, which will include diagnostic imaging and laboratory examinations when clinically warranted. Based upon this information a clinician will clear the student for full, limited, or no participation in the practical/clinical classes.

ÿ During the fourth trimester, the student must make an appointment and have a reevaluation and an update of their case history.

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Y Students are required to report to the Health Center for the purpose of updating their records if any change occurs between examinations, including any formal referrals made by clinical faculty in the course of a laboratory class.

Y If any condition is revealed during the health clearance process that may affect a student's ability to participate fully as a patient in technique or diagnosis laboratories, the student must sign a release of information allowing appropriate disclosure of information to all concerned parties, including: Class instructors, Clinician, Dean of Academic Quality Assurance and Support, Registrar, and Dean of Academic Affairs. Refusal to sign such a release will result in the temporary or permanent suspension of participation privileges in practical clinical classes.

Y When a student seeks a health exemption (saying that they cannot/should not participate or (s)he may be limited to partial participation in practical/clinical classes), (s)he must be examined by the Campus Health Center Director, or a clinician that the Director appoints to perform the examination. The Director or his/her designee will perform the exam and a decision will be made regarding the extent of the exemption. If the student wants to appeal the decision of the Director, it may be appealed to a Committee made up of the Chiropractic Clinical Sciences Department Head, the Chiropractic Clinical Sciences Assistant Department Head, and a health center clinician. The Committee will review the file. The decision of the Committee will be final.

Y The Health Center will notify the Registrar the Friday prior to registration day of all students cleared for participation. Failure to meet the health clearance requirements will prevent the student from registering for the following trimester.

Y If the student is not cleared for participation as per the technical standards of the College the student must withdraw from the course and/or the program.

Policy Effective: January 4, 2000

Revision: October 14, 2003

**LECTURE COURSE OBJECTIVES:**

Upon completion of the lecture portion of this course, the student should have an understanding of the following:

1. The general systemic anatomical plan of the human body and a general understanding of anatomical terminology.
2. The osteology and arthrology of the human axial skeleton.
3. The general plan of the peripheral nervous system and the distribution of spinal nerves.
4. The musculoskeletal anatomy of the vertebral column, back, and thorax.
5. The anatomy and function of the thoracic viscera, with emphasis on the heart, pulmonary system, and the autonomic nervous system.

**GRADING:**

- A = 90 - 100
- B = 80 - 89.99
- C = 70 - 79.99
- D = 60 - 69.99
- F = <60

**Your final grade for the course will be determined from a combination of your lecture and laboratory scores. Fifty percent of your overall course grade will be based**

upon your lecture average, and fifty percent will be based upon your laboratory average. *The laboratory syllabus will fully describe the grading criteria for the laboratory.*

**EXAMINATIONS:**

There will be two midterm lecture quizzes and a comprehensive final examination. The first quiz will cover the introduction to anatomy, general body systems, and osteology and arthrology of the axial skeleton. The second quiz will cover the gross anatomy of the back. The final examination will concentrate on the soft tissues and musculoskeletal anatomy of the thorax. **This final examination is cumulative, but will concentrate on the last third of the course. The first and second quizzes will each count as 30 percent of your lecture score, while the final examination will count as 40 percent of your lecture score. This combined score for the three lecture examinations will account for 50 percent of your final grade for the course.** The two midterm quizzes will consist of 40 objective type questions each. The final examination will be in a similar format, but will consist of 60 to 70 questions. The two midterm quizzes will each occupy a Wednesday class meeting (1 hour).

*Make-up Examinations:*

Make-up examinations will be given only under exceptional and extraordinary circumstances at the discretion of the instructor. The format and timing of such examinations will also be at the discretion of the instructor.

**REQUIRED READINGS:**

**(NOTE: These texts will be used throughout the entire gross anatomy sequence in trimesters one, two and three, plus in the clinical anatomy course in seventh trimester. They will also serve as references for your other courses. Additionally, they will form a lifelong series of references for your later professional life.)**

*Skeletal and Developmental Anatomy*, 2<sup>nd</sup> Edition, Walker, Lovejoy, Bedford and Yee.

Available at: <http://www.linusbooks.com/catalog.php> and in the bookstore.

*Essential Clinical Anatomy*, Moore and Agur, Second Edition.

*Anatomy: A Regional Atlas of the Human Body*, Clemente, Fifth Edition.

*Color Atlas of Anatomy*, Rohen, Yokochi, Lutjen-Drecoll and Romrell, Fifth Edition.

**REQUIRED LECTURE AND LAB MANUALS:**

*Skeletal and Developmental Anatomy*, Second Edition, Walker, Lovejoy, Bedford

and Yee. Available at: <http://www.linusbooks.com/catalog.php> and in the bookstore.

*Dissection Manual: Back Musculature, Laminectomy, and External Anatomy of the Spinal Cord*  
Walker and Bedford.

*Grant's Dissector*, Sauerland, Fourteenth Edition.

**RECOMMENDED ADDITIONAL REFERENCES:**

*Gray's Anatomy*, Any edition, either American or British, but preferably one from the recent past. Paperback reprints of century-old editions are not recommended for serious study. While the body itself has not changed in the last hundred years, much of the terminology has.

*Cunningham's Manual of Practical Anatomy, Volume Two: Thorax and Abdomen*, Romanes, Fifteenth Edition.

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*Grant's Atlas of Anatomy*, Agur, Twelfth Edition

*Stedman's Concise Medical Dictionary for the Health Professions*, Fourth edition.

*Cross-sectional Human Anatomy*, Dean and Herbener.

*The Developing Human*, Moore and Persaud, Seventh Edition.

Larsen's or Langman's embryology texts (Gray's Anatomy also includes an extensive embryology section.)

**LABORATORY SAFETY:**

The New York Chiropractic College Anatomy Laboratory meets all state and federal safety requirements. Concentrations of chemicals in the laboratory are monitored, and we maintain chemical levels well below the requirements of OSHA standards. Remember that your instructors are concerned about this as well, as we are exposed to these chemicals up to or exceeding 12 hours per week, 45 weeks a year, year in and year out. We are concerned about your and our health. Chemicals used in the embalming fluid may include phenol, formaldehyde, methyl alcohol, glycerin, and water. MSD sheets are maintained by the Anatomy Department laboratory technicians and are available for viewing by any interested parties. Anyone desiring additional protection may purchase a chemical protective mask through the NYCC bookstore or elsewhere. The technical standards for the NYCC curriculum require the completion of a hands-on human gross anatomy dissection course.

**LECTURE SCHEDULE:**

*Dates should be considered tentative*, but this is the general sequence that the lectures will follow. Lectures are by Dr. Walker, unless otherwise noted. Please make an effort to read the assigned pages ahead of time. From time to time there may be unscheduled guest lectures of general clinical and/or scientific interest. Such guest lectures will be announced in advance and will be considered testable material. Dates for some guest lectures are listed, but they may in fact be scheduled sooner or later than the listed dates. If so, then the other lectures will occur a session or two earlier or later than the date currently listed. Lectures are Mondays, 10 a.m. to 12 noon, and Wednesdays 1 to 2 p.m. The class meets in Anatomy Center Room L03.

<b>DATE</b>	<b>TOPICS</b>	<b>PAGES</b>
<b>(M = Monday, W = Wednesday)</b>		
<b>Wk 1 – May 6(W):</b>	Introduction to Gross Anatomy.	<i>Walker et al.</i> , 1-8
<b>Wk 2 – May 11(M) 13(W):</b>	Body Planes, Sections, Terms of Relationship, Comparison, and Movement.	<i>Walker et al.</i> , 1-8 <i>Moore and Agur</i> , 1-8
	Introduction to Body Systems: Skeletal System.	<i>Walker et al.</i> , 9-45 <i>Moore and Agur</i> , 10-17
<b>Wk 3 – May 18(M) 20(W):</b>	Introduction to Body Systems: Skeletal System.	<i>Walker et al.</i> , 9-45 <i>Moore and Agur</i> , 10-17

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**Wk 4 – May 25(M) 27(W):***May 25: Memorial Day – No classes.*

Introduction to Body Systems: Skeletal System.

*Walker et al., 9-45**Moore and Agur, 10-17***Wk 5 – Jun 1(M) 3(W):**

Introduction to Body Systems: Skeletal System.

*Walker et al., 9-45**Jun 3: Quiz 1.***Wk 6 – Jun 8(M) 10(W):**

Embryology of the Vertebral Column.

*Walker et al., 47-74*

Arthrology of the Axial Skeleton.

*Walker et al., 106-109 and Handout**Moore and Agur, 17-20**Walker et al., 109-130***Wk 7 – Jun 15(M) 17(W):**

Arthrology of the Axial Skeleton.

*Walker et al., 109-130*

Introduction to Body Systems: Muscular System.

*Moore and Agur, 17-20***Wk 8 – Jun 22(M) 24(W):**

Introduction to Body Systems: Nervous System.

*Moore and Agur, 24-31***Wk 9 – Jun 29(M) Jul 1(W):**

The Back Muscles.

*Moore and Agur, 275-313**Walker et al., 297-308***Wk 10 – Jul 6(M) 8(W):***Jul 6: Dr. Bill Sherwood: Treatment and Management of Scoliosis (tentative date).**Jul 8: Quiz 2.***Wk 11 – Jul 13(M) 15(W):***Jul 13: Dr. Mike Lentini: Clinical Anatomy of the Intervertebral Disk and Differential Diagnosis of Lower Back Pain (tentative date).*

Spinal Cord and Meninges.

*Moore and Agur, 301-310***Wk 12 – Jul 20(M) 22(W):**

Spinal Cord and Meninges.

*Moore and Agur, 301-310**Jul 18: Registration Day – No classes.***Wk 13 – Jul 27 (M) Jul 29 (W)**

Anatomy and Embryology and Anatomy of the Respiratory System.

*Moore and Agur, 70-82***Wk 14 – Aug 3(M) 5(W):**

Anatomy and Embryology of the Heart and Circulatory System.

*Moore and Agur, 84-103*

**Wk 15 – Week of August 10: FINAL EXAMINATION**