Course Syllabus
Anatomy and Physiology
SCIT 1408
Summer I, 2012

Math/Science/Sport Science
Location: P330, Telephone: 972-273-3500

This course syllabus is intended as a set of guidelines for (Course). Both North Lake College and your instructor reserve the right to make modifications in content, schedule, and requirements as necessary to promote the best education possible within prevailing conditions affecting this course.

Instructor Information

Instructor: Dr. T. Alegre
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Course Information

Course title: Applied Human Anatomy and Physiology II
Course number: SCIT 1408
Credit hours: 4 Credit Hours
Course description:
A continuation of Applied Human Anatomy and Physiology I designed for students considering a career in the health field. The following body systems are included: digestive, respiratory, cardiovascular, lymphatic/immune, renal/excretory, and reproductive. Emphasis is on homeostasis. This course is intended for students seeking to complete an Applied Science.
Course prerequisites:
SCIT 1407

<table>
<thead>
<tr>
<th>Section number</th>
<th>Class Meeting Time</th>
<th>Lab Meeting Time</th>
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<tbody>
<tr>
<td>7426</td>
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Required or Recommended Textbooks and Materials


Course Objectives

To learn the microscopic and macroscopic structure of the human body, and the principles of how and why these systems function. To learn and be able to use the nomenclature describing the structures and functioning of these systems.

Specific Course Learning Outcomes

1. The student will discuss the structure and function of the basic parts of the nervous system (special senses) and their relation to the rest of the body.
2. The student will diagram the structure and function of the various components of the heart and circulatory system and the blood circulation pathway.
3. The student will identify the structures of the lungs as well as the passageways and organs of the body that provide for air transfer between the body and the environment.
4. The student will illustrate the mechanisms for breathing and for production of voice.
5. The student will locate the digestive organs and discuss their roles in handling food from preliminary tasting to final evacuation.
6. The student will describe the roles of chemicals in the action of digestion.
7. The student will discuss absorption, storage, and transport of nutrients from the digestive system.
8. The student will identify the structures and function of the excretory system.
9. The student will identify the principles structures and functions of the reproductive system.
10. The student will locate the principle endocrine glands.
11. The student will discuss the role of the endocrine system as it relates to different systems of the body
12. The student will described how hormones effect change in target tissues.

Course Outline

“See Appendix.”

Means of Assessment of Course Learning Outcomes

Lecture: (Power Point, Overhead, Blackboard, Projector, Class Notes, Exam Reviews and others.)
Laboratory Skills: (Power Point, Overhead, Blackboard, Class Notes, Quizzes, Reviews, Hands On, Clinical Cases, and Clinical Project.)

Evaluation Procedures

- 5 exams – (1 drop lowest exam) = 4 exam-------------------------------60%
- 5 Laboratory Practicals – (1 drop lowest practical) = 4 Practicals -------------------------------------------30%
- Power Point Clinical Project---------------------------------------------7%
- Clinical Cases------------------------------------------------------------3%

Exams and Assignments

Written Examinations 5 Exams
Lab Practicals 5 Practicals
Clinical Project 1 Project
Clinical Cases 10 Cases

Grading Scale

Standard college grading is used to compute the final grade.

100-90 A
89-80 B
79-70 C
Below 70 No Certification in various programs
Discipline/ Course/ Department/Policies

Lecture includes full discussions utilizing the above methods to teach and discuss material presented. Class participation is very important and so is reading of the text. The workbook is individual practice/work with the material presented. Laboratory consists of short discussion about the day’s activity followed by student experimentation in the lab. Students will work in small groups but report their results individually. Some computer work will be required.

Attendance Policy
As you are preparing for a career in the Health Care profession, it is imperative that you practice the professional attributes of punctuality and attendance. The administration and faculty of this program have expectations of your own professional behavior, as well.

Tardiness
Student are expected to arrive on time for class. Entering class after it is in session can be disruptive to other students. Absence due to tardiness is included in classroom absence totals. Each occasion of tardiness is calculated to the next 1/2 hour. e.g. 10 minutes late = 30 minutes and 2 30 minute tardiness = 1 absent.

Classroom Rules and Expectations:
All students are required to practice courteous, respectful, cooperative behavior at all times, as this would be the norm in any higher education or work environment. To avoid distractions in the classroom, students will:
• Arrive on time and stay until class is dismissed;
• Be prepared to stay on task;
• Leave all food, drink, candy, chips etc outside the classroom;
• Listen courteously to one speaker at a time, with no distractions and no side conversations;
• Generally behave as mature adults would in the workplace

Cell Phone/Pagers:
To avoid interruption of class sessions, students are to turn off all cell phones and pagers prior to the beginning of class. Students not conforming to this policy will be asked to leave the class.

Academic Ethics:
“Any violation of the Student Code of Conduct (as printed in the North Lake Catalog. All matters of academic dishonesty (plagiarism, collusion, fabrication, cheating, etc.) will result in a grade of “0” for the assignment in question. All violations will be forwarded to the proper college authorities for review. The college may, at its discretion, impose additional penalties on the student including academic probation, suspension, or expulsion. ANY form of disruptive behavior will not be tolerated.”
**Grievance Procedures:**
Students are expected to follow established procedures of the appropriate division in handling academic issues, such as grade appeals. North Lake College requires that other complaints and disputes (that cannot be resolved by the persons directly involved) be referred initially to the Ombudsman Office for informal, confidential resolution. Additional grievance procedures and the Student Code of Conduct are outlined in the North Lake College Catalog.

**Children in Class and Unaccompanied Children Policy:**
The institution strives to protect an environment most conducive to teaching and learning for all enrolled students. Children who are taking part in organized scheduled activities or who are enrolled in specific classes are welcomed. Minor children, however, should not be brought to the college. This practice is disruptive to the learning process. In the case of an emergency where the student-parent has no alternative but to bring the child to the campus, classroom faculty or the administrative heads of other units have full discretion as to whether a child may be allowed to quietly stay in the location. These individuals may require that children be removed by the student-parent from the setting if, in their opinion, the presence of the child is deemed to be disruptive to the learning process. For reasons of security and child welfare, the institution will not permit unattended children be left anywhere on the premises. Parents who have problems with childcare should visit the advisement/counseling center to receive referrals to childcare services in the area.

**On-line Testing Policies & Procedures**

All DCCCD policies regarding scholastic dishonesty as described in the Student Code of Conduct (See college catalog) apply to this course.

Course Specific Program Policies & Procedures

The student:
- Will use the highest ethical standard when taking on-line tests
- Must not discuss a test with any student for any reason during the hours that the test is available online
- Can discuss a test with a fellow student **after** the deadline for test on-line availability
- Will not under any circumstances print or make a paper copy of any on-line test
- Will not copy any or part of a test question
- Will not use any study guide that they have created during a test
- Will not use texts or notes or any other written or recorded course information during testing
- The student will not exceed the time limit for any test **for any reason**
- Will answer all questions in a timely manner during the testing time frame.
- In the event that there is a controversial question, they will give their best response and submit the test on time. After the test is submitted they must contact their instructor either by email or in person regarding that question. (Grades for each test will only be final when the instructor and student are confident that grading for the test was accurate and represents the student's true effort)

Tips for on-line testing
- Certain internet providers will disconnect you if they do not sense internet activity after a certain length of time. To overcome this you should have some form of streaming video playing in the background while you test e.g. a music video with the volume turned off.
- Make sure to disable your call waiting before starting an on-line test….. you may get disconnected if you receive a call during your test
**it is the student’s responsibility to contact their internet provider if they have any questions about these tips

INSTITUTIONAL POLICIES

ACADEMIC DISHONESTY
The Student Code of Conduct prohibits academic dishonesty and prescribes penalties for violations. According to this code, which is printed in the college catalog, "academic dishonesty", includes (but is not limited to) cheating, fabrication, facilitating academic dishonesty, plagiarism, and collusion". Academic dishonesty may result in the following sanctions, including, but not limited to:
1. A grade of zero or a lowered grade on the assignment or course.
2. A reprimand.
3. Suspension from the college.

NOTIFICATION OF ABSENCE DUE TO RELIGIOUS HOLY DAY(S)
Students who will be absent from class for the observance of a religious holiday must notify the instructor in advance. Please refer to the Student Obligations section of the college catalog for more explanation. You are required to complete any assignments or take any examinations missed as a result of the absence within the time frame specified by your instructor.

REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT
In accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, any student who feels that he or she may need any special assistance or accommodation because of an impairment or disabling condition should contact the ADA/ACCESS Office at (972) 273-3165 or visit Room A-430 at North Lake College. North Lake College provides academic accommodations to students with disabilities, as defined under ADA law. It is the student's choice and responsibility to initiate any request for accommodations. If you are a student with a disability who requires such ADA accommodations, please contact North Lake College's Disability Services Office in person (A430) or by phone at 972-273-3165. [http://www.northlakecollege.edu/resources/disability.html](http://www.northlakecollege.edu/resources/disability.html)

DROP POLICY
If you are unable to complete this course, you must officially withdraw by the assign date offer by this institution (Please see Syllabus/Schedule). Withdrawing is a formal procedure which you must initiate; your instructor cannot do it for you. This date is computed by the college and appears under its own heading on your receipt of payment.

If you stop attending class and do not withdraw, you will receive a performance grade of "F." See "Refund Policy" in the catalog for possible refund eligibility. Initiate: no one can do this for you. This grade will not be changed.

All Dallas County Community Colleges charge a higher tuition rate to students registering the third time for a course. This rule applies to the majority of credit and Continuing Education / Workforce Training courses. Developmental Studies and some other courses are not charged a higher tuition rate. Third attempts include courses taken at any DCCCD college since the fall 2002 semester. For further information, go online to: http://www.DCCCD.edu/thirdcourseatempt.

**FINANCIAL AID STATEMENT**
Students who are receiving any form of financial aid should check with the Financial Aid Office prior to withdrawing from classes. Withdrawals may affect your eligibility to receive further aid and could cause you to be in a position of repayment for the current semester. Students who fail to attend or participate are also subject to this policy.

To apply for financial aid in the DCCCD, students must complete FAFSA (Free Application for Federal Student Aid) on the web at http://www.fafsa.ed.gov.

**COUNSELING SERVICES**
Counseling services for personal issues are provided to all students currently enrolled at North Lake College. These services are provided by licensed professionals who are bound by confidentiality (within ethical parameters) at no charge. With the assistance of a counselor, students are able to identify, understand, resolve issues and develop appropriate skills. To make an appointment call 972-273-3333 or visit A 430.

**STOP BEFORE YOU DROP**
For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop. You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions.

Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www1.dcccd.edu/coursedrops.

**WRITING CENTER (A309)**
The Writing Center supports and supplements classroom instruction by providing focused, individualized writing instruction in response to the specific needs of the student. Its services are available to all North Lake students, not just those enrolled in English classes. The tutors are
skilled writing specialists who can help students clarify writing tasks, understand instructors' requirements, develop and organize papers, explore revision options, detect grammar and punctuation errors, and properly use and document sources. Rather than merely editing or "fixing" students' papers, the Writing Center staff focuses on helping students develop and improve their writing skills.

Located in Room A309, the Writing Center is open 8:00 AM to 9:30 PM Monday through Thursday and 8:00 AM to 5:00 PM on Friday. Saturday hours are 9:00 AM to 2:00 PM during fall and spring semesters. Hours will vary during other sessions. Students who have scheduled an appointment in advance will have a tutor available to work with them at their scheduled time. Walk-ins are welcome, but they may have to wait for an opening or make an appointment for a later time, perhaps a later day. To schedule an appointment, come by the Writing Center, call 972-273-3089, or email nlcwritingcenter@dcccd.edu.

APPENDIX A

Title of the Appendix

Unit III - The Endocrine System

1. Define “endocrine gland” and be able to locate and identify the major endocrine glands of the body. *

2. Explain the basics of hormones chemistry and action including chemical make-up, second messengers, direct gene activation, and hormone release factors which are hormonal, humoral or neural.

3. Identify the sources of hormones secreted by the anterior and posterior pituitary gland and their relationship to the hypophyseal portal system.

4. Explain the relationship between the nervous system and endocrine system with particular emphasis on the relationship of the hypothalamus with the pituitary. *

5. List the secretions of each endocrine gland (or histological region of the gland), its target tissue and its effect. What is the mechanism of regulation for each of these secretions? Which are examples of negative feedback? Which are examples of positive feedback? *

6. Given a physiological imbalance, correctly identify the gland(s), hormones and effects which would correct the imbalance. Be able to relate this type of mechanism with homeostasis.

7. Recognize the anatomy of the testes. Be familiar with the mechanisms regulating testosterone production and its effects. Include a discussion of spermatogenesis. *
8. Describe the anatomy of the ovaries. Be familiar with their structure and functions.

9. Discuss the hormonal interactions which control the menstrual (uterine) and ovarian cycles.

10. Describe the ovarian cycles and relate them to the ebb and flow of endocrine secretions.

11. Understand the histology of each endocrine gland. Know which hormones are secreted by each histological region of each gland.

Unit IV - The Cardiovascular, Lymphatic, & Respiratory Systems

Blood

1. List the functions of blood.

2. Describe the composition of whole blood.

3. Describe the composition and functions of plasma.

4. Describe the composition of plasma including the proteins, nutrients, electrolytes and respiratory gases found there.

5. Identify the seven major formed elements of blood. For each formed element provide its source, relative number in normal blood and its function.

6. Distinguish between antigens (agglutinogens) and antibodies (agglutinins).

7. Be familiar with antigen/antibody distribution for the ABO and Rh blood groups. When given the ABO-Rh genotype of parents be prepared to describe the genotype and phenotype of the potential offspring.

8. Describe the endocrine cycle which is responsible for maintaining appropriate levels of erythrocytes.

9. Contrast intrinsic and extrinsic coagulation.

10. Describe the conditions contributing to hemolytic disease of the newborn (erythroblastosis fetalis).

Unit IV (cont.) - The Heart

11. Describe the location of the heart.
12. Describe the route of blood flow through the heart, listing the blood vessels that enter and leave the heart, and the chambers and valves which are found there. *

13. Describe coronary circulation. Explain how oxygenated blood is distributed to the right ventricle and the left ventricle. Also explain how the blood eventually rejoins systemic venous blood. *

14. Describe the structure of the heart wall and pericardium. *

15. Describe how cardiac muscle tissue is specially adapted for the pumping action it performs. *

16. Recognize the electrical conduction system of the heart. Include the SA node, AV node, Interventricular bundles, left and right bundle branch branches and purkinje fibers. *

17. How do the structures described in #16 above relate to the ECG pattern of a normal healthy heart?

18. How does the action potential of cardiac muscle differ from that of skeletal muscle? How are these differences explained?

19. Describe the events of the cardiac cycle.

20. Name and explain the effects of various factors regulating stroke volume and heart rate.

**Unit IV (cont.) - Blood Vessels**

21. Describe the three layers that typically form the wall of a blood vessel, and state the function of each.

22. Define vasoconstriction and vasodilation.

23. Describe how arteries, veins and capillaries differ.

24. Name the major factors which control movement of materials into and out of the blood within capillary beds.

25. Given a set of capillary dynamics, be prepared to determine which direction there is net movement of materials.

26. Be prepared to identify the major arteries and veins assigned in lab. Know what organs or areas are served by these arteries or veins. *

27. List and explain the factors that influence blood pressure, and describe how blood pressure is regulated.

28. Clearly distinguish between systemic, pulmonary and coronary circulation. *
29. Describe how fetal circulation differs from postnatal circulation.

**Unit IV (cont.) - The Lymphatic System**

30. Describe the general organization of the lymphatic system and define its major functions within the body.

31. Describe the structural characteristics of lymph vessels.

32. Describe the structure of lymph nodes. How does their placement within the body relate to one of their functions?

33. Describe the composition of lymph.

34. Explain how tissue fluid gathered from capillary beds as lymph is returned to the cardiovascular system.

**Unit IV (cont.) - The Respiratory System**

35. Describe the general anatomy of the respiratory system. Include specific body cavities, specific organs, serous membranes, and passage-ways involved.

36. Describe the cellular organization of alveoli. Include type II surfactant secreting cells, type I alveolar wall cells, alveolar pores, macrophages, elastic fibers, and capillaries.

37. Describe the functions of the respiratory system at the following levels:
   a. pulmonary ventilation
      ● On the basis of the gas laws discussed, explain the forces which cause air to alternately flow into the lungs and then reverse its direction and flow out.
   b. external respiration
   c. transport of respiratory gases
      ● Describe how oxygen is transported in the blood, and explain how oxygen loading and unloading is affected by temperature, pH, BPG, and Pco₂.
      ● Describe carbon dioxide transport in the blood.
   d. internal respiration

38. Describe the neural controls of respiration.

39. Explain what is meant by the following terms:
   a. total lung capacity
   b. tidal volume
   c. residual volume
   d. conducting zone
   e. respiratory zone
Unit V – Digestive, Urinary, & Reproductive Systems

The Digestive System

1. Describe the function of the digestive system, and differentiate between organs of the alimentary canal and accessory digestive organs.

2. List and define the major processes occurring during digestive system activity: ingestion, mechanical digestion, propulsion, chemical digestion, absorption, defecation.

3. Describe the tissue composition and the general function of each of the four layers of the alimentary canal.

4. Describe the composition and functions of saliva.

5. Describe the anatomy and basic function of each organ and accessory organ of the alimentary canal:
   - Oral cavity:
     ✓ Describe the composition and functions of saliva.
     ✓ Ingestion – bolus
   - Esophagus:
     ✓ Muscular composition of esophageal wall
     ✓ peristalsis
   - Stomach:
     ✓ functions and anatomy
     ✓ gastric pits and their secretions
     ✓ hormones and enzymes released
     ✓ chyme
     ✓ chemical digestion and absorption taking place
   - Small Intestines:
     ✓ functions and anatomy
     ✓ villi
     ✓ segmentation and peristalsis
     ✓ hormones and enzymes released
     ✓ chemical digestion and absorption taking place
     ✓ lacteals, hepatic portal system
   - Liver:
     ✓ functions
     ✓ bile
     composition (bile salts)
function (of bile)
✓ digestive hormone(s) that act on liver

- Gall bladder:
  ✓ function
  ✓ digestive hormone(s) that act on gall bladder

- Pancreas:
  ✓ functions
  ✓ secretions (enzymes & bicarbonate)
  ✓ digestive hormone(s) that act on pancreas

- Large Intestine:
  ✓ anatomy and functions
  ✓ describe the regulation of defecation

Unit V (cont.) - The Urinary System

6. Describe the major structures associated with the urinary system and point out their location within the body.

7. Gross anatomical features of the urinary system:
   Kidneys (Cortex, Medulla, Pelvis, pyramids, nephrons), Ureter, Bladder, Urethra

8. Describe the structure of a nephron and its related blood supply using the following terms:
   Renal corpuscle, renal tubule, collecting duct, Bowman’s capsule, proximal convoluted tubule, descending limb, ascending limb, loop of Henle, distal convoluted tubule, glomerulus, afferent arteriole, efferent arteriole, peritubular capillaries, vasa recta

9. Describe the processes involved in urine formation: 1) Glomerular filtration, 2) Tubular reabsorption, and 3) Tubular secretion.

10. Explain how effective filtration pressure can be determined by knowledge of blood hydrostatic pressure, capsular hydrostatic pressure and blood osmotic pressure.

11. Describe how the following hormones relate to the kidney. (renin, erythropoietin, ADH and Aldosterone)

12. Describe the neural pathways involved in micturition.

Unit V (cont.) - The Reproductive System

13. Correctly identify major anatomical features of both the male and female reproductive systems. Be prepared to trace the sources, composition and pathway for ejaculation of semen. Trace the ovum from the ovarian follicle stage through ovulation, fertilization and implantation.
14. Explain the role of each of these anatomical features in the reproductive process.

15. Describe the development (production) of both eggs and sperm. Be familiar with the histology of both ovaries and testes.

16. Explain the significance of meiosis as it relates to chromosome number.

17. Outline the ovarian and uterine cycles, and describe the hormonal involvements. Discuss the hormone HCG.

**Chapter Outline:**

- Chapter 16 The Special Senses
- Chapter 17 The Autonomic Nervous System
- Chapter 18 The Endocrine System
- Chapter 19 The Cardiovascular System: The Blood
- Chapter 20 The Cardiovascular System: The Heart
- Chapter 21 The Cardiovascular System: Blood Vessels and Hemodynamics
- Chapter 22 The Lymphatic and Immune System and Resistance to Disease
- Chapter 23 The Respiratory System
- Chapter 24 The Digestive System
- Chapter 25 Metabolism
- Chapter 26 The Urinary System
- Chapter 27 Fluid, Electrolyte, and Acid-Base Homeostasis
- Chapter 28 The Reproductive Systems
- Chapter 29 Development and Inheritance
Schedule for SCIT 1408:

Please read:

Highlighted in Yellow are the models (See A&P Website within e-campus) that will be utilized in the lab Practicum. Therefore, review the illustrations or Fig. in your lab book on the respective pages given below as well as in the website under lab related.

Make sure you know and understand the Testing Center Hours (across the district hours of operation do change) and it is ultimately the student responsibility to know them and to know the deadlines of every test offer in this class shown below. If you cannot take a Test, for example on a Saturday, due to your work schedule, please take it before that day. It is not fair to me or your peers to change my schedule and provide you with more time to take your exam respectively.

June 6
Lecture: CH 17: The Special System
Lab: 
Exercises 24: 
Fig. 24.3, fig.24.13, fig.24.14, fig.24.17, and Pages: 380 C 1-12, & 382 G
See the following models in the website under Lab Related: Eye Model, Ear Model and Internal Ear Model.

June 7
Lecture: CH 18: The Endocrine System
Lab: 
Exercises 25: 
Fig. 25.1, fig.25.6 (a, b, and c), and Page: 403-404 C.
Clinical Case #1 
Deadline is Today. (See website under Lab related)

June 8
Lecture: 
CH 19: The Cardiovascular System: The Blood
Lab: 
Exercises 26: 
Page: 423A
Clinical Case #2 
Deadline is Today. (See website under Lab related)
Exercise 27: 
Fig. 27.2 (page 432-33 from 1-21), fig.27.3, fig.27.5 (c and d), and Page: 446 C.
See Heart Model in the website
Lab Practical #1
Deadline is Today. It will cover questions from Exercises: 24-26 and questions from the following Models: Eye, Ear, and Internal Ear. Also will include 2 Questions from Clinical Cases 1 and 2. Total questions are 29.

June 9-11
Lecture:
CH 20: The Cardiovascular System: The Heart
Lab:
Exercise 28:
Fig.28.1, fig.28.3, and Page: 458 C (1-7)
Clinical Case #3
Deadline is June 9. (See website under Lab related)
Lecture Test #1
Deadline at the Testing Center is June 11. It will cover Chapters 17-19 (lecture/Power Points). Test will be 99 Multiple Choice Questions.

June 12
Lecture:
CH 20: The Cardiovascular System: The Heart (Continues)
Lab:
Exercise 28 (Continues):
Fig.28.1, fig.28.3, and Page: 458 C (1-7)

June 13
Lecture:
CH 21: The Cardiovascular System: Blood Vessels and Circulation
Lab:
Exercise 29:
Fig. 29.2 & fig.29.3, Page 476 B or Fig. 29.8
See Dissected Artery/ Vein Model in the website
Exercise 30:
Fig. 30.1, fig.30.2 (a) fig.30.3, fig.30.6, fig.30.7, fig.30.9 (a and b), and 30.14 (a and b)
See Circulatory Model including Artery and Vein in the website
Clinical Case #4
Deadline is Today. (See website under Lab related)

June 14
Lecture:
CH 22: The Lymphatic System and Immunity
Lab:
Exercise 31:
Fig. 31.3, fig.31.5 and Page: 521D
Clinical Case #5
Deadline is Today. (See website under Lab related)
Lab Practical #2
Deadline is Today. It will cover questions from Exercises: 27-30 and questions from the following Models: Heart, Artery and Vein Dissected and regular models, in the website. Also will include 2 Questions from Clinical Cases 3 and 4. Total Questions are 31.
June 15-16
Lecture:
   CH 23: The Respiratory System
Lecture Test #2
   Deadline at the Testing Center is June 16th. It will cover Chapters 20-22 (lecture/Power Points). Test will be 85 Multiple Choice Questions.
Lab:
   Exercise 32:
   Fig.32.3, fig.32.4 a-b, fig.32.5 (a-b), fig.32.6, and Page 539 A
   See Sagital Section of Head and Bronchial Tree (Hard Poster) Model in the website
Exercise 33:
   Fig.33.4 (pag.551) & Page: 556 C
Clinical Case #6
   Deadline is June 15. (See website under Lab related)

June 18-19
Lecture:
   CH 24: Digestive System
Lab:
   Exercise 34:
   Fig.34.1 (Top figure 1-13), fig.34.3, fig.34.7 (b-c), fig.34.9 (a,b,c), and Pages: 581B, and 582 D (1-13)
Clinical Project Due.
   The Power Point Project with the Disease provided by me. Deadline is June 19. The earlier you turn it in the better chances for me to review it and help you get full credit on it.

June 20-21
Lecture:
   CH 25: Metabolism and Energetics
Lab:
   Exercise 35:
   Page: 591 A
Lab Practical #3
   Deadline is June 21. It will cover questions from Exercises: 31-33 and questions from the following Models: Sagital Section of head, Bronchial Tree, and Lymphatic Illustrations in the website. Also will include 2 Questions from Clinical Cases 5 and 6. Total Questions are 25.

June 22
Lecture:
   CH 26: The Urinary System
Lecture Test #3
   Deadline at the Testing Center is Today. It will cover Chapters 23-25 (lecture and Power Points). Test will be 99 Multiple Choice Questions.
Lab:
   Exercise 36:
   Fig. 36.3, fig.36.4, fig.36.6 (a-b), and Pages: 607 A, & 609 E.
   See kidney Anatomy Part I and II (Kidney/Nephron models are in the website).
Clinical Case #7
Deadline is Today. (See website under Lab related.)

June 23
Lecture:
CH 26: The Urinary System (Continues)
Lab:
Exercise 37:
Page 621 B
Clinical Case #8 and 9
Deadline is Today. (See website under Lab related)

June 25-26
Lecture:
CH 27: Fluid, Electrolyte, and Acid-Base Balance
Lab:
Exercise 38:
Fig.38.2, fig.38.4, fig.38.5, fig.38.9(b), and Pages: 637 A & 638 B.
See Male Reproductive models in the website.
Exercise 38
Fig.39.1, fig.39.3, fig.39.6, Pages: 655 A and 656 D
See Female Reproductive and Breast models in the website.
Lab Practical #4
Deadline is June 26. It will cover questions from Exercises: 34-37 and
questions from the following Models: Kidney Anatomy Part I and II
(Nephron and Gross Anatomy). Also will include 2 Questions from
Clinical Cases 7, 8, and 9). Total Questions are 25.

June 27-28
Lecture:
CH 28: The Reproductive System
Lecture Test #4
Deadline at the Testing Center is June 28. It will cover Chapters 26-27
(lecture and Power Points). Test will be 52 Multiple Choice Questions.
Lab:
Exercise 40:
Fig.40.1, fig.40.2, and fig.40.3
Exercise 41:
Fig.41.1, fig.41.3, fig.41.4, fig.41.5, fig.41.6, fig.41.10, and Page: 681 A
Clinical Case #10
Deadline is June 27. (See website under Lab related).
June 27 is the last Day to Withdraw with a “W”

June 29-30
Lecture:
CH 29: Development and Inheritance
Lab:
Lab Practical #5
Deadline is June 30. It will cover questions from Exercises: 38-41 and
questions from the following Models: Male, Female and Female Breast.
Also will include 1 Question total from Clinical Case #10.). Total Questions are 25

July 3

Lecture Test #5:
Our final exam. It is not comprehensive. The deadline for this exam is July 3. It will cover Chapters 28-29 (lecture/Power Points). Test will be 89 Multiple Choice Questions. **This exam cannot and will not be re-scheduled** since the grades will be turn into NLC the next day AM ASAP. **If you cannot take this exam due to an emergency or due to testing center problems, (reason why we have the policy of dropping your lowest exam) this will be your dropping exam. Therefore in order to avoid this particular situation, please plan ahead and give yourself time. An incomplete will not be provided.**
Calculating Your Class Grade:

I. Class Exams Overall Weight = 60% of Class Grade
Exam 1 Grade %______ out of 100%
Exam 2: Grade %______ out of 100%  (Drop your Lowest Grade)
Exam 3 Grade %______ out of 100%
Exam 4 Grade %______ out of 100%
Exam 5 Grade %______ out of 100%

A. Add top 4 from above 4 Exams =_____ Divide by 4 = _____% x 0.60 = ______

II. Lab Practicum Overall Weight = 30% of Class Grade
Lab Practicum 1 Grade %______ out of 100%
Lab Practicum 2 Grade %______ out of 100%
Lab Practicum 3 Grade %______ out of 100%  (Drop your Lowest Grade)
Lab Practicum 4 Grade %______ out of 100%
Lab Practicum 5 Grade %______ out of 100%

B. Add top 4 from above 4 Exams =_____ Divide by 4 = _____% x 0.30 = ______

III. Clinical Cases Overall Weight = 3% of Class Grade
1._____ 2._____ 3._____ 4._____ 5._____ 6._____ 7._____ 8._____ 9._____ 10.____
=______%.
Add all 10 and this will be your grade % (if you did all of them your grade will be 100%).

C. Grade % ________ x 0.03 = _________

IV: Oral Presentation Overall Weight = 7% of Class Grade

D. Grade % ________ x 0.07 = _________

Last Step:
Add:  A_____ + B_____ + C______ + D_____ = _____(Your Class Grade)