Text: Principles of Anatomy and Physiology, 1st ed., Philip Tate

Day & Time: Lecture: M,T,W,Th,F 1:00 – 2:30 p.m.
Lab: M,W,F 2:40 – 4:30 p.m.
Location: Lecture, Lamb Hall rm. 105
Lab. Lamb Hall rm. 116
Instructor: Dr. Allan Forsman
Office: Lamb Hall, Rm. 249F
Phone: 439-4502 e-mail: forsman@etsu.edu
web page: http://faculty.etsu.edu/forsman

Course Objectives

At the completion of this course the student is expected to:

• demonstrate a working knowledge of the major structures of the human nervous system and the function(s) of these structures.
• demonstrate a working knowledge of the major structures of the human skeletal system and the function(s) of these structures.
• demonstrate a working knowledge of the major structures of the human muscular system and the function(s) of these structures.
• demonstrate a working knowledge of the major structures of the human endocrine system and what hormones are related to this system as well as the major functions of these hormones.
• demonstrate a working knowledge of the major features of the human integumentary system and the functions of this system

Examinations: There will be four (4) lecture examinations PLUS a comprehensive final lecture examination. These examinations will be in multiple choice format. Since lecture and lab are linked it is possible that there may be questions from lab material on the lecture exams and questions from lecture material on lab exams. All lecture examinations will be worth 100 points with an additional 50 points for the comprehensive portion of the fourth examination. For the lecture exam students must provide their own scan-tron forms. Form 882 ES or comparable is needed. There will be two (2) laboratory examinations each worth 100 points. These will be in lab practical format. There will be no “special projects” or extra credit given. Grades will be based on the total number of points earned out of the total number of points possible in the course, with the lecture portion of the course being worth 75% of your total grade and the laboratory portion worth 25%.

Lab Quizzes: There will be five (5) 10 point quizzes, one (1) 20 point quiz, and one (1) 25 point quiz. These quizzes will consist of labeled pictures of our laboratory specimens and are designed to be practice for the two laboratory exams and as such will be timed. The quizzes will be given via the course Desire-2-learn site. Each quiz will be posted at 8:00 a.m. on the day preceding the day on which the quiz is due (see course schedule below) and must be completed before the start of lab on the date due. Students must work alone on these quizzes, with no outside assistance. Each student is expected to abide by the ETSU code of student conduct. All work submitted for a grade in this course must be the original work of the student submitting the material. It is STRONGLY recommended that these online quizzes be taken from a computer on campus. If the computer/desire-2-learn system locks up during a quiz it is the students responsibility to IMMEDIATELY notify the instructor via e-mail at forsman@etsu.edu

Videos: Videos of the models that we use in this course are available online via the d2L site known as the “Portal”. You are required to watch the appropriate videos covering the lab material before coming to lab each week. For each week that you do not prepare by watching the videos, 2 points will be deducted from your lab score
There will be 450 total points from lecture exams and 295 points from lab exams/quizzes. Your lab and lecture combine to give a common grade with the laboratory being worth 25% of that grade. The following formula will be used to calculate your final grade in this course:

\[(\text{lab}_s/\text{lab}_p \times 25) + (\text{lec}_s/\text{lec}_p \times 75) = \text{percentage}\]

where:  
lab\(_s\) is the total number of lab points earned by the student  
lab\(_p\) is the total number of lab points possible  
lec\(_s\) is the total number of lecture points earned by the student  
lec\(_p\) is the total number of lecture points possible

**Grade Scale:**

- 93 – 100  A  78 – 79.9  C+  
- 90 – 92.9  A-  73 – 77.9  C  
- 88 – 89.9  B+  70 – 72.9  C-  
- 83 – 87.9  B  67 – 69.9  D+  
- 80 – 82.9  B-  60 – 66.9  D  
- < 59.9  F

Attendance: Attendance is required on all examination days. Failure to attend an examination will result in a score of zero (0) for that exam. If you miss an examination and have a verifiable **EXCUSED** absence you will be allowed to take a make-up examination. Make-up examinations will be given on the last day of class. Make-up examinations may be in any format, i.e., multiple choice, discussion, short answer, essay, oral, etc. You may only take one make-up examination. This means that if you miss more than one of the regularly scheduled examinations you will have to decide which exam you would like you make up and which you would like to keep at a score of zero. Only students that are mathematically capable of earning a grade of D or higher will be allowed to take make up examinations. **IT IS THE STUDENT'S RESPONSIBILITY TO CONTACT THE INSTRUCTOR AS SOON AS POSSIBLE AFTER MISSING AN EXAMINATION TO DETERMINE THE STATUS OF THEIR ABSENCE.**

Only two forms of excused absences will be accepted:
1. verifiable hospitalization or physicians care
2. a death in your immediate family (including your own)
   occasionally special circumstances arise. Please see instructor if you believe this applies to you.

Tardiness demonstrates a lack of respect for your instructor and your fellow classmates and will not be tolerated. Chronic tardiness may result in the door being locked when class begins.

Class disturbances will not be tolerated. Anyone causing a disturbance will be asked to leave the classroom. Chronic offenders may be assigned to a specific seat or may be subject to review by a student conduct review board.

Food and Drink: No food will be allowed in the lecture room: Beverages (non-alcoholic) will be allowed in the lecture room.

Cell phones should be set to vibrate or turned off during class. At no time should a telephone be allowed to “ring” during class time. At no time should a cell phone be used during class. This includes e-mails and text messaging. **ABSOLUTELY** no cell phones or i-pods will be allowed on examination days. Anyone found to be using their cell phone or i-pod during an examination will receive a failing grade in the course. Additionally, there will be no caps/hats allowed on examination days. All work submitted for a grade in this course must be the original work of the student submitting the material.

**VERY IMPORTANT RESOURCES**

**Dr. Forsman’s web page:** The diagrams that will be used in this class, along with other diagrams, can be found on the web at: [http://faculty.etsu.edu/forsman](http://faculty.etsu.edu/forsman). The lecture notes for many of our
lectures are also posted on this web site. In addition, labeled pictures of the laboratory models used for this class can also be found on this web site.

**Course Desire-2-learn site:** I will post grades in the course site. In addition you may find worksheets and crossword puzzles posted in this site. This site will also have a link that you can use to listen to audio lectures of this course.

**The “PORTAL” site:** All students enrolled in an A&P or Human Anatomy course at ETSU will have access to a tutoring site in the Desire-2-learn system known as “The Portal.” This site has many valuable resources such as the book publishers online quizzes, video presentations/descriptions of the models used in our laboratories, and practice quizzes made up of pictures of our laboratory models, to name a few.

**Sherrod Library Media Center:** the media center is located on the 3rd floor of Sherrod Library. This center has at least 1 of almost all of our laboratory models on reserve. These models can be checked out for a few hours at a time. They cannot be removed from the library and you can only check out 1 model at a time. Remember, these models are placed in the library to assist you in your studying. They ARE NOT a substitute for attending lab. Additionally, often many students want to study these models at the same time. Be aware that you may go to the media center to study a model that is already checked out by another student, so you SHOULD NOT rely on these models being available when you want them.

**Course schedule:** The dates and topics listed are provisional. The actual dates of the lectures will depend on many factors and will be adjusted as needed. Due to the nature of the material and the pace at which it will be presented it is strongly suggested that you read the material **before** attending class. **Suggested readings are listed in Italics.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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| June 8 | Lecture: Introduction and General Chemistry, Lab: Introduction to anatomical terms, basic cytology, membrane transport, and epithelium  
*Lecture: Chapter 2, Lab: Chapters 1, 3, and 4 (pages 78-86)* |
| 9     | Biochemistry  
*Continue chapter 2* |
| 10    | Lecture: Connective Tissues, begin Skin, Lab: finish Skin  
*Chapters 4 and 5* |
| 11    | Neurohistology, begin neurophysiology  
*pages 96-97, Chapter 10* |
| 12    | Lecture: Finish Neurophysiology. Lab: Neurons and review Neurophysiology |
| 15    | Lecture: **Exam 1**, Lab: Begin Brain (lecture)  
*Chapter 11 (pages 314-335) and Chapter 12* |
| 16    | Finish Brain |
| 17    | Lecture: Brainstem and Cranial nerves, Lab: Brain, Brainstem, & Cranial Nerves  
*Continue chapter 11 (pages 314-335) and Chapter 12* |
| 18    | Spinal cord and peripheral nerves  
*Chapter 11 (pages 297-314) and Chapter 12* |
| 19    | Lecture: Autonomic nervous system, Lab: Spinal Cord & ANS  
*Chapter 14* |
| 22    | Lecture: Special senses; vision, Lab: Eye and associated structures  
*Chapter 13 (pages 370-387). Read on your own olfaction and taste, pages 368-370* |
| 23    | Special senses: hearing/balance  
*Continue chapter 13 (pages 387-400)* |
<p>| 24    | Lecture: Review, Lab: Ear and associated structures |</p>
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| 25    | **Lecture: Exam II**, Begin Bone Histology, and bones of the upper extremities  
Chapter 6 and pages 148-149, and 165-169                                                                                          |
| June 26 | Lecture: Finish Bone Histology, and bones of the upper extremities, Lab: Exam I  
Chapter 6 and pages 148-149, and 165-169                                                                                          |
| 29    | Lecture: Bones of the lower extremities, vertebral column, and rib cage, Lab: All bones except skull  
Pages 157-165, 170-177                                                                                                                   |
| 30    | Bones of the skull, Muscle Histology  
Pages 149-157, begin Chapter 8 (pages 195-202) and pages 228-229                                                                 |
| July 1 | Lecture: Muscle Physiology, Lab: Review all bones and muscle physiology  
Chapters 8 (pages 202-222)                                                                                                             |
| 2     | **Lecture: Exam III**                                                                                                                               |
| 3     | INDEPENDANCE DAY HOLIDAY                                                                                                                             |
| 6     | Lecture and Lab: Begin muscles of the extremities  
Pages 230-231, 244-261                                                                                                                   |
| 7     | Lecture: Finish muscles of the extremities, Muscles of the head and neck, Muscles of the thorax and abdomen  
Pages 323-244                                                                                                                                |
| 8     | Lecture: Joints and levers, Begin Endocrine, Lab: Finish muscles of the extremities, Muscles of the head and neck, Muscles of the thorax and abdomen  
Pages 177-190, page229, Chapter 15                                                                                                      |
| 9     | Lecture: Finish Endocrine, Lab will be open for Review                                                                                           |
| 10    | **Lecture: Exam IV WITH COMPREHENSIVE PORTION, Lab: Exam II**                                                                                   |

**IMPORTANT LAB DATES**

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<tr>
<th>Date</th>
<th>Quiz Details</th>
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<tbody>
<tr>
<td>June 12</td>
<td>10 point quiz over cytology, epithelium, and skin due before class begins</td>
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<tr>
<td>June 19</td>
<td>10 point quiz over brain, brainstem, and cranial nerves due before class begins</td>
</tr>
<tr>
<td>June 22</td>
<td>10 point quiz over spinal cord, peripheral nerves, and autonomic nervous system due before class begins</td>
</tr>
<tr>
<td>June 26</td>
<td>10 point quiz over eye and ear due before class begins</td>
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<tr>
<td>July 1</td>
<td>20 point quiz over bones of the extremities due before class begins</td>
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<tr>
<td>July 3</td>
<td>10 point quiz over bones of the skull and axial skeleton due before class begins</td>
</tr>
<tr>
<td>July 9</td>
<td>25 point quiz over muscles due before class begins</td>
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</tbody>
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Other important dates:
June 20th: last day to drop without W (4:30 pm)  
June 26th: last day to drop without Dean’s permission (4:30 pm)