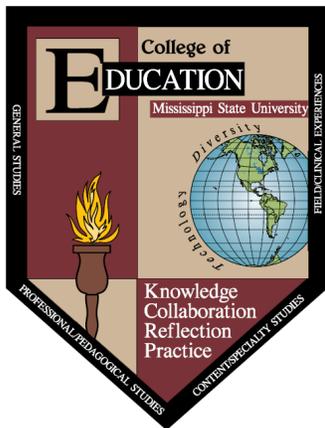


**MISSISSIPPI STATE UNIVERSITY
COLLEGE OF EDUCATION**

**DEPARTMENT of KINESIOLOGY
COURSE SYLLABUS**

Course Prefix & Number:	EP 3643
Course Title:	Applied Anatomy & Pathophysiology
Credit Hours:	Three (3) semester hours
Course Type:	Lecture
Catalog Description:	Anatomical foundation of the human body with related pathophysiology of the cardiovascular, peripheral and central nervous system, and musculoskeletal disease states.

College of Education Conceptual Framework:



The faculty in the College of Education at Mississippi State University are committed to assuring the success of students and graduates by providing superior learning opportunities that are continually improved as society, schools, and technology change. The organizing theme for the conceptual framework for the College of Education at Mississippi State University is educational professionals - dedicated to continual improvement of all students' educational experiences. The beliefs that guide program development are as follows:

1. **KNOWLEDGE** - Educational professionals must have a deep understanding of the organizing concepts, processes, and attitudes that comprise their chosen disciplinary knowledge base, the pedagogical knowledge base, and the pedagogical content knowledge base. They must also know how to complement these knowledge bases with the appropriate use of technology.
2. **COLLABORATION** - Educational professionals must continually seek opportunities to work together, learn from one another, forge partnerships, and assume positions of responsibility.
3. **REFLECTION** - Educational professionals must be willing to assess their own strengths and weaknesses through reflection. They must also possess the skills, behaviors, and attitudes necessary to learn, change, and grow as life-long learners.
4. **PRACTICE** - Educational professionals must have a rich repertoire of research-based strategies for instruction, assessment, and the use of technologies. They must be able to focus that array of skills on promoting authentic learning by all students or clients, while exhibiting an appreciation and commitment to the value and role of diversity.

Course Objectives:

1. To gain a better understanding of human anatomy. **CFPO #3**
2. To gain a better understanding of pathological conditions. **CFPO #3**
3. To gain a better understanding of medical terminology associate pathophysiology. **CFPO #3**

Topics to be Covered:

Week 1: Review syllabus, expectations, collagen structure, bone architecture, bone physiology, associated pathology (3 hours)

Week 2: Ligament structure, tendon structure, articular cartilage structure, and associated pathology with these structures. (3 hours)

Week 3: Central nervous system, peripheral nerves, muscle contraction, and associated pathology (3 hours)

Week 4: Sensory receptors, cranial nerves, associated pathology (3 hours)

Week 5: Brachial Plexus and associated pathology (3 hours)

Week 6: Lumbar-sacral plexus and associated pathology (3 hours)

Week 7: Artery anatomy and types of arteries and associated physiology (3 hours)

Week 8: Arterial supply to the head, thorax, abdomen, and upper extremities (3 hours)

Week 9: Arterial supply to the pelvis and lower extremities (3 hours)

Week 10: Venous drainage of head, neck, upper extremities (3 hours)

Week 11: Venous drainage of the pelvis and lower extremities (3 hours)

Week 12: The lymph system and associated pathology (3 hours)

Week 13: Thorax region and associated pathology (3 hours)

Week 14: Abdominal region and associated pathology (3 hours)

Week 15: review for final, finish any uncovered topics (3 hours)

Textbook:

Fauci, S. (2008) *Principles of internal medicine* (17th Ed.) McGraw-Hill, New York, NY.

Methods of Instruction:

1. Lecture (Objectives 1-3)
2. Class Discussion (Objectives 1-3)

Suggested Student Activities:

1. Attend all lectures and participate in classroom discussions (Objectives 1-3)
2. Read appropriate chapters in the textbook and supplementary reading materials (Objectives 1-4)

Honor Code:

Academic Honesty and Student Conduct:

Honesty and integrity are expected of every student. Any occurrences of academic misconduct will be dealt with in accordance with university guidelines and procedures. These guidelines and procedures can be accessed on the web at: <http://www.msstate.edu/dept/audit/1207A.html>. Mississippi State University has an approved Honor code that applies to all students. The code is as follows:

“As a Mississippi State University student I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do.”

Technology:

Technology will be used to help student visualize human anatomy and pathology processes.

Diversity:

Diversity is not specifically addressed in this course.

Disabilities Statement:

Students with disabilities are encouraged to discuss their needs with the instructor, preferably, during the first week of the semester. All reasonable accommodations will be made to see that disabilities do not restrict the student’s opportunity to learn. Help is also available from Student Support Services (<http://www.ss.msae.edu/disabilities/>, Etheridge Hall, 323-3335).

Field Component: This course does not contain a field component.

Evaluation of Student Process:

Exams (6 will be given, including the final)
Behavior/Attendance/Professionalism

Percentage of overall grade:

90% (300 points)
10% (30 points)

Grading Scale:

A = 290 points, B = 264 points, C = 230 points, D = 198 points,
F = points below 198

Attendance:

Students are allowed three absences. Each absence after the first three will result in a deduction of five points from the total number of earned points unless documented in writing for medical religious, athletic, or any other bona fide excuse.

Exams:

There will be six 50 point examinations including a non-comprehensive final examination. The format for these tests will be multiple choice utilizing a scantron answer sheet.

Cell Phone Policy:

All cell phones should be turned off unless there is an emergency situation. If there is an emergency situation, the student should inform the instructor prior to class. There will be a 5 point deduction from your total points each time your cell phone goes off during the lecture or a test or if I see you texting, checking your e-mail, call list (etc). No cell phones will be allowed on your desk during a test.

Classroom Behavior:

You are expected to conduct yourself as a professional in the classroom. Be on time for class. If you have a class across campus or some other situation that will make it difficult to be on time, let me know. Please do not leave or start putting away your materials until class is dismissed.

Bibliography:

Hansen, M. (1998). *Pathophysiology. Foundations of disease and clinical interventions.* (3rd ed.). Saunders, Philadelphia, PA.

Guyton, A. (2000.) *Textbook of medical physiology* (10th ed.). Saunders, Philadelphia, PA.

McChance, K. (2002). *Pathophysiology: The biological basis for disease in adults & children* (4th ed). Mosby, St. Louis, MO.