



# Alabama Fire College Program in Emergency Medicine



## EMS 189 SYLLABUS

### Applied Anatomy & Physiology for the Paramedic

**Total Clock Hours: 60**

Prerequisite(s)	AEMT, successfully passing Paramedic Entrance Exam and a completed registration form.
Course Description	This is a specific anatomy and physiology course designed for Emergency Care providers. The course introduces human anatomy and physiology and includes concepts related to basic chemistry: fluid, electrolyte, and acid-based balance; functions of cell, tissue, organs, and systems; pathophysiology, and associated medical terminology. Emphasis is placed on applying content to signs, symptoms, and treatments and in situations commonly seen by paramedics. Upon completion of the course, students will be able to demonstrate a basic understanding of the structure and function of the human body.
Course Objectives	<p>After completing this course, students will be able to:</p> <ul style="list-style-type: none"><li>• describe the structure and function of the normal cell</li><li>• list types of tissue</li><li>• define organs, systems, the organism, and system integration</li><li>• discuss the cellular environment (fluids and electrolytes), including osmosis and diffusion</li><li>• discuss acid-based balance and pH</li><li>• describe the anatomy and physiology of the:<ol style="list-style-type: none"><li>1. integumentary system, including the skin, hair, and nails</li><li>2. hematopoietic system, including the components of the blood, hemostasis, hematocrit, and hemoglobin</li><li>3. musculoskeletal system, including bones, joints, skeletal organization, and muscular tissue and structure</li><li>4. nervous system, including the neuron, the central nervous system, and the peripheral nervous system (somatic, autonomic, sympathetic, and parasympathetic divisions)</li><li>5. endocrine system, including the glands and other organs with endocrine activity</li><li>6. cardiovascular system including the heart and the circulatory system</li><li>7. physiology of perfusion</li><li>8. respiratory system (upper and lower airway and pediatric airway) anatomy and physiology (respiration, ventilation, and measures of respiratory function)</li><li>9. digestive system, including the digestive tract, the accessory organs of digestion, and the spleen</li><li>10. anatomy and physiology of the urinary system, including the kidneys, ureters, urinary bladder, and urethra</li><li>11. female reproductive system, the menstrual cycle, and the pregnant uterus</li><li>12. male reproductive system</li></ol></li></ul>
Instructor(s)	Bailey Price/Ray Grantham
Instructors' Office Hours	1 hour after class or email the Instructors as needed

Instructors' E-mail <i>and</i> phone number	<a href="mailto:bprice@alabamafirecollege.org">bprice@alabamafirecollege.org</a> – 205-391-3766 <a href="mailto:rgrantham@alabamafirecollege.org">rgrantham@alabamafirecollege.org</a> – 205-391-3760
Web site	<a href="http://www.alabamafirecollege.org">www.alabamafirecollege.org</a>
Last Date of Withdrawal	Last class meeting prior to the final exam – Classes not taught at the Fire College may have different policies imposed.
Campus <i>and</i> Class location	Alabama Fire College Campus – Room #102 2501 Phoenix Drive Tuscaloosa, Alabama 35405 (Course may be taught at other venue)
Attendance Policy	EMS Programs: three tardies or three class cuts are equal to one absence. A tardy is defined as reporting to class 15 minutes or more after the class is scheduled to begin. A class cut is defined as leaving class 30 minutes or more before class is scheduled to end. Students who have missed three (3) days will be terminated from the EMS program. (Student Handbook)
Make-up Policy	It is the responsibility of the student to make arrangements with the instructor to make-up missed work. Only documented excused absences listed in the Alabama Fire College Handbook will be considered for make-up. (Student Handbook)
Required textbook and Course Materials	<u>Available from the Alabama Fire College Bookstore 1-866-984-3545</u>  <i>Anatomy &amp; Physiology for Emergency Care, updated version</i> , Brady Publishing, by Colbert/Ankney/Lee/Bledsoe  <i>Anatomy &amp; Physiology for Emergency Care, updated version</i> , Brady Publishing, by Colbert/Ankney/Lee/Bledsoe (workbook)
Academic Misconduct	Students are expected to be honorable in all college assignments. Suspected cases of academic misconduct are to be reported to the EMS Group Supervisor. Refer to the Alabama Fire College Handbook for the policy regarding academic misconduct. (Student Handbook)
Daily Activities	From time to time there will be in-class activities for extra points. Since these are not included in the computation of total points needed for a grade, these points cannot be made up if you are absent. Daily activities include class participation in discussions and presentations, case studies, role playing, lecture and review of audiovisual aids.
Americans with Disabilities Act	The College complies with the Rehabilitation Act of 1973 (Section 504) and the Americans with Disabilities Act of 1990. All inquiries or concerns should be directed to the Director of Student Services at (205) 391-3775. (Student Handbook)
FERPA	Alabama Fire College is compliant with the requirements of the Family Educational Rights and Privacy Act of 1974 (FERPA)
Schedule	The schedule is subject to change due to extenuating circumstances



**Grading:**

Activities and Material covered by that Activity	Percentage of Grade or Number of Points
Chapter Exams	60%
Final	30%
Quizzes/Essays	5%
Terminology/Workbook	5%
	<b>100 % or total number of points possible</b>

**Grading Scale**

The Alabama Fire College Program in Emergency Medicine uses the following **Grading Scale** for the Paramedic course:

- A = 90 - 100-----**Excellent**
- B = 80 - 89-----**Good**
- F = below 80-----**Failure**

**Clinical/Laboratory Performance is graded as follows:**

- A = Completing all rotations, maximum objectives and satisfactory rotation evaluations
- B = Completing all rotations, minimum objectives and satisfactory rotation evaluations
- F = Not completing all rotations or unsatisfactory rotation evaluations

- Clinical/Laboratory performance must be an “A” or “B” to receive a passing grade in the course.

**In order to sit for the National Registry certification exam, student must meet the following criteria:**

- Maintain an 80 overall average at the end of the class (Grade of **B**)
- Make a minimum of an 80 on the Final Exam (Grade of **B**)
- Complete all assigned rotations by the required deadline as stated on the Course Syllabus
- Pass final National Registry skills testing