

**Hagerstown Community College**  
**OFFICIAL MASTER SYLLABUS DOCUMENT**

**COURSE:** EMS 155 – Anatomy and Physiology for EMS Providers      4 Credits

**INSTRUCTOR:**

**SEMESTER/YEAR:** Fall 2015

**COURSE DESCRIPTION:** This course is an integrated course of the structure and function of the human body systems and processes. Included in this course are cell biology, biochemistry, and histology, and the body systems, as well as fluid and electrolyte balance, metabolism, and homeostasis. Course fee required. Total of 60 hours of lecture.

**TEXTBOOK:** Essentials of A&P for Emergency Care, Bruce Colbert, 2011 Pearson

**STUDENT LEARNING OUTCOMES:**

- Explain the relationship of various mechanisms in the delivery of substrate to the cells in the capillaries.
- Explain the mechanisms controlling blood flow to specific areas of the body
- Identify the effected organs of the ANS and how the ANS is modulated through physiologic function, toxins, and medications.
- Identify the phases of the cardiac cycle, and how action potentials differ between varying cardiac tissues.

**COURSE WORKLOAD:** Each 4 credit course requires a total of 150 hours of instructional time/student work. The course will have 50 hours of instructional time and 100 hours will account for student work outside of instructional time. The average is 6.67 hours per week of student work.

**ACCOUNTING FOR CREDIT HOUR REQUIEMENT:**

Assignment/Assessment	Clock Hours
In- class instruction	50
Quizzes on Moodle	30 hours for studying and taking exams
Midterm at Testing Center	10 hours studying and taking midterm
Final Exam Testing Center	10 hours studying and taking final exa
Assigned readings	50 hours reading and note taking etc.
	<b>Total hours:150</b>