



# Surgery 111/211

## Syllabus

### 2009-2010



*Surgery 111/211A-C, Stanford University  
Emergency Medical Technician (EMT-B/  
EMT-I): Training and Application*

#### Course Directors

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#### Student Administrative Contact

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#### Training Staff

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*Josephine Valenzuela, NREMT-B*

#### Honor Code:

The Honor Code is the University's statement on academic integrity written by students in 1921. It articulates University expectations of students and faculty in establishing and maintaining the highest standards in academic work:

1. The Honor Code is an undertaking of the students, individually and collectively:
  - a. that they will not give or receive aid in examinations; that they will not give or receive unpermitted aid in class work, in the preparation of reports, or in any other work that is to be used by the instructor as the basis of grading;
  - b. that they will do their share and take an active part in seeing to it that others as well as themselves uphold the spirit and letter of the Honor Code.
2. The faculty on its part manifests its confidence in the honor of its students by refraining from proctoring examinations and from taking unusual and unreasonable precautions to prevent the forms of dishonesty mentioned above. The faculty will also avoid, as far as practicable, academic procedures that create temptations to violate the Honor Code.
3. While the faculty alone has the right and obligation to set academic requirements, the students and faculty will work together to establish optimal conditions for honorable academic work.

*Taken from Stanford University Judicial Affairs.*

**Contact:**

All general questions should be sent to [stanfordemtclass@gmail.com](mailto:stanfordemtclass@gmail.com). Alternatively, you may call your administrative contact, Mark Liao at 650-238-4880.

**Enrollment:**

Enrollment by application and instructor permission only. Due to State regulations, enrollment is limited by instructor-student ratios and must be strictly adhered to.

**Prerequisites:**

- For Winter and Spring (111/211 B&C), previous courses in series (A&B) are required
- Ability and willingness to stay enrolled in the class for all three consecutive quarters
- Current CPR Certification to the level of CPR for the Professional Rescuer (ARC) or Healthcare Provider (AHA) (\* See enrollment requirement below)
- Instructor permission after application

**Location and Time:**

Wednesdays 6:00pm - 9:00pm, Medical School, Room M112 (Alway Building).

**Office Hours:**

Office hours will be held on many weekends throughout the quarter in the Medical School. Office hours are optional and will be announced in class throughout the year.

**Textbook:**

Required: *Emergency Care and Transportation of the Sick and Injured, 9<sup>th</sup> Edition* (2005) by the American Academy of Orthopedic Surgeons (Series editor: Andrew Pollak; Publisher: Jones and Bartlett). ISBN-10: 0763744050 (paperback) or 0763744069 (hardcover).

Optional: *Emergency Care and Transportation of the Sick and Injured Student Workbook, 9<sup>th</sup> Edition* (2006) by the American Academy of Orthopedic Surgeons. ISBN-10: 0763729698. Contains additional chapter summaries, case studies, exercises, and quizzes.

The textbook will be available at the Stanford University Bookstore, in the Medical School section. We expect you to read the chapters we cover in class before coming to class.

**Additional Resources:**

The companion website, [www.emtb.com](http://www.emtb.com), is a free resource that provides valuable on-line quizzes and other study materials.

**Dress Code:**

The nature of Emergency Medical Services requires proper attire for professionalism and safety purposes. Students should wear close-toed shoes and avoid attending class in skirts or pants that make activities on the ground (e.g. lifting and moving) difficult. You must adhere to the prescribed Observations dress code for ride-alongs and clinical days, which will be outlined prior to these events. Failure to dress appropriately may affect your participation grade in the class.

**About the Class:**

Surgery 111/211 teaches the NHTSA National Standard Curriculum for Emergency Medical Technician-Basic, and follows all applicable California state regulations on the education and certification of EMTs. After completion of this class you will be able to take the written National Registry exam to receive your EMT-Basic certification which will allow you to work or volunteer as an EMT, if desired.

This will be the fifth year of the Stanford EMT training program. The SURG111/211 course is certified by the County of Santa Clara as an EMT training center. The class is taught by professors, doctors, nurses, paramedics, EMTs and other professionals from Stanford School of Medicine, Palo Alto Fire Department, Stanford Life Flight, Stanford University EMS Service and other outside groups. The class meets for three hours a week. The time commitment is comparable to other 3 unit classes. Classes will be theoretical and practical with an emphasis on the practical aspects of prehospital emergency care later in the series. Most class periods will incorporate a quiz for comprehension of the material, a lecture on EMS theory, and a hands-on practical training session.

You will learn basic prehospital and emergency medicine theory (up to and above the level of the EMT-Basic) and will get hands-on experience and training with medical equipment available to the EMT-Basic.

You will need to complete the requisite 120 hours of instruction that is required for EMT certification. These hours also include 10 hours of clinical observations that will also be required for satisfactory class performance.

We are looking for highly motivated students who have a genuine interest in prehospital care and who plan to use their acquired skills and knowledge. Therefore, we are asking you to sign a contract of your intent to fulfill the three quarters of this course series. Although this contract is not binding, we ask you to consider your schedule and commitments as you enroll in this course.

The class is available for a letter grade or for credit/no credit. (Taking this class for Medical School grades is **not recommended** if you are not a Medical Student.) You will need to fulfill all the requirements for the class to be eligible for EMT certification.

**Requirements: (subject to change)**

1. Compliance at all times with the Stanford University policies on the Fundamental Standard and the Honor code.
2. Regular attendance (Any unexcused absences will result in potential forfeit of class enrollment. See below for attendance policy.)
3. A passing score on the practical midterm, the theoretic final, assignments, and overall course grade.
4. In the field observation: Minimum 10 hours in Winter and Spring quarters outside of class in the Stanford Hospital Emergency Department or as an ambulance ride-along. Details will be discussed in class. Must have 5 patient contacts.
5. \*Healthcare provider level CPR if not already taken. We will arrange a CPR training session (outside of class time) during the first quarter of the course. CPR training must be completed by 10/21/09 unless otherwise arranged. Your enrollment in this course is dependant on completing this requirement by the prescribed date. We anticipate the cost of this class to be \$40.
6. Online Blood-Borne Pathogen and Airborne Pathogen training (due the date of the practical midterm, 11/11/09)

7. Online HIPPA Certification for Awareness and Fundamentals (due by the date of the practical midterm, 11/11/09)
8. Submission of vaccination record or equivalent documentation for MMR, TB screening (within last 6 months), Hepatitis B, Tetanus (within last 10 years), and Varicella. These are requirements of the Stanford Emergency Department and are requisite for observing in the SUH ED (due by the date of the practical midterm, 11/11/09).

Don't panic! All these requirements are not hard to fulfill if you attend class regularly. Keep in mind that these requirements are set by National and County EMT certification regulations, and therefore, we are unfortunately not in a position to make many individualized exceptions.

### **In Class Costs**

Other than the following requirements, the EMT program does not require any additional fees.

1. You must take a professional/healthcare provider level CPR class within the first quarter of the program. If you take it as arranged through the program, the cost is \$40. (This includes the required online component, hands-on skills test and CPR mask.) You can also take this course on your own at an American Red Cross or American Heart Association chapter, but the cost is usually about \$80.
2. If you cannot show proof of a negative TB test, hepatitis immunization or other vaccination requirement, you must have the appropriate tests or immunizations performed. We estimate this will cost about \$50-80 depending on where you get it done.
3. A \$10 lab fee will allow students to receive personal equipment such as an individual stethoscope, eye protection, penlight, respirator and nametag.

Please do not let these costs deter you from applying for the program. If you believe you will incur financial hardship from these requirements, feel free to email us, and we can investigate options to help you.

### **H1N1 Pandemic Flu Advisory:**

In line with current recommendations from the Centers of Disease Control and Prevention, we ask that you do not come to class if you are feeling sick to prevent the spread of influenza. If you are experiencing a fever of 100 degrees F (37.8 C) and have a cough or sore throat, remain at home until you are fever-free for at least 24 hours. See attendance policy below for make-up requirements.

### **Grades:**

*20% - Practical midterm*

- The practical midterm is an assessment of your hands-on proficiency. You will work with a partner or individually and be directly observed by the teaching staff on practical skills taught during the quarter.

*35% - Written final*

- The written final will be 100 multiple choice questions, designed to be similar to the NREMT certification test. The test is closed book and lasts 3 hours.

*25% - Weekly quizzes (short quiz on the topics of the previous week)*

- During each class period, a brief quiz will be presented that reviews the lecture and reading material from the previous week and reading comprehension of the readings assigned for that class.

*20% - Attendance, participation, homework, fulfillment of the requirements (vaccinations, ED-observation/ride-along, CPR-certification, etc.)*

- Attendance is mandatory. Excused absences for illness, unavoidable class conflict, or other emergency will be permitted, but you will need to make up for the missed material by watching the lecture online and attending Office Hours as a make-up session held toward the end of each quarter. Additional assignments may also be assigned. Each hour missed will need to be made-up in order to complete requirements for certification and satisfactory course grade. You must email stanfordemtclass@gmail.com to get permission for your absence before the scheduled class if you will not be in attendance.
- Punctuality counts toward attendance. As being late cuts into the 120 hours needed for certification, you will need to make up any time that you are late at the Saturday session.
- There will also be occasional homework assignments that are designed to augment the material presented in class, gauge comprehension, and deepen your understanding of the material. Homework will be announced in class with plenty of time to complete the assignment.
- Your engagement in the class is also factored into this grading component. Due to the nature of the class, respectful participation in class is integral to the learning of the material and reflects on your ability to work within the Emergency Medical Services. While we recognize that not everyone will ask questions in the large group, we do anticipate that you will be an active learner in small groups, participating as each role in small groups in a respectful manner to your classmates. We also believe that disruptive behavior in lecture and small group setting detracts from the overall learning environment, and this will be reflected in your participation grade.

**After completion of the course:**

After you have successfully completed all three quarters of the series, you will receive paperwork from the Stanford EMT program which allows you to take the National Registry of Emergency Medical Technicians written exam that is necessary to receive your EMT certification. We are happy to guide you through that process, and we will give you more details on the certification process as the series progresses. At this time, students must provide the full cost of certification. All together, this is approximately \$200.