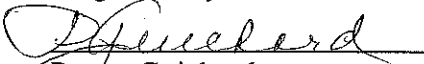


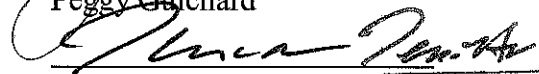
City College of San Francisco
Course Outline of Record

I. GENERAL DESCRIPTION

- A. Approval Date October 2013
B. Department Health Care Technology
C. Course Number EMTP 127
D. Course Title Medical Emergencies
E. Course Outline Preparer(s) Megan Corry
F. Department Chairperson


Peggy Guichard

- G. Dean


Terrance Hall

Terry Hall, Dean
John Adams Campus/
School of Health & P.E.

II. COURSE SPECIFICS

- A. Hours Lecture – 80 total
Conference – 20 total
B. Units 5
C. Prerequisites Acceptance into the Paramedic Program
Corequisites None
Advisories None
D. Course Justification The course content reflects the material outlined in the National EMS Education Standards.
E. Field Trips No
F. Method of Grading Letter
G. Repeatability 0

III. CATALOG DESCRIPTION

Prehospital and in-hospital assessment and management of patients with medical emergencies.

IV. MAJOR LEARNING OUTCOMES

Upon completion of this course a student will be able to:

- A. Demonstrate the systematic patient assessment used for patients with abdominal pain.
- B. Describe the pathophysiology and clinical findings associated with allergic reactions, anaphylaxis, gastrointestinal hemorrhage, renal failure, and inflammatory conditions.
- C. Describe the toxidromes and prehospital treatments of exposure to common toxins.
- D. Identify common infectious diseases encountered in the field and the public health principles designed to protect the paramedic from exposure.
- E. Given a patient scenario, identify the most likely etiology of the patient's condition using information obtained from the patient history, clinical findings and foundational knowledge of pathophysiology.
- F. Given a patient scenario, use critical thinking skills to determine the preferred method of treatment for patients with allergic/anaphylactic, abdominal, urinary, environmental, hematologic and toxicologic emergencies.

- G. Demonstrate proper basic and advanced life support management of critical and stable patients with various medical emergencies within the scope of practice of a paramedic.

V. CONTENTS

- A. Abdominal and gastrointestinal disorders
 1. Anatomy and physiology of the abdominopelvic organs
 2. Patient assessment of abdominal pain: OPQRST review
 3. Pathophysiology, epidemiology, psychosocial impact, clinical presentations and management of:
 - a. Acute and chronic gastrointestinal hemorrhage
 - b. Liver disorders
 - c. Peritonitis
 - d. Ulcerative diseases
 - e. Irritable bowel syndrome
 - f. Inflammatory disorders
 - g. Pancreatitis
 - h. Bowel obstruction
 - i. Hernias
 - j. Infectious disorders
 - k. Gall bladder and biliary tract disorders
 - l. Rectal abscess and foreign bodies
 - m. Mesenteric ischemia
 4. Differential diagnosis of acute abdominal pain
 5. Skill review: nasogastric tube insertion
- B. Allergies and Anaphylaxis
 1. Antigen-antibody reactions
 2. Pathophysiology, epidemiology, psychosocial impact, clinical presentations and management of:
 - a. Hypersensitivity
 - b. Allergic reactions
 - c. Anaphylactic reactions
 - d. Anaphylactoid reactions
 3. Immunology review
 - a. Review of antibody-mediated versus cell-mediated immunity
 - b. Collagen and vascular disease
 - c. Transplant related problems
- C. Genitourinary disorders
 1. Anatomy and physiology review
 2. Pathophysiology, epidemiology, psychosocial impact, clinical presentations and management of:
 - a. Acute renal failure
 - b. Chronic renal failure
 - c. Complications from dialysis
 - d. Renal calculi
 - e. Acid-base disturbances

- f. Fluid and electrolyte imbalances
 - g. Infection
 - h. Male genital tract conditions
- D. Infectious diseases
1. Review of microbe types
 2. Public Health principles
 3. Pathophysiology, epidemiology, psychosocial impact, clinical presentations and management of:
 - a. HIV-related disease
 - b. Hepatitis
 - c. Pneumonia
 - d. Meningococcal meningitis
 - e. Tuberculosis
 - f. Tetanus
 - g. Viral diseases
 - h. Sexually transmitted diseases
 - i. Gastroenteritis
 - j. Fungal infections
 - k. Rabies
 - l. Scabies and lice
 - m. Lyme disease
 - n. Rocky mountain spotted fever
 - o. Antibiotic resistant infections
- E. Toxicology
1. Poisonings and Poison Control Centers
 2. Types of exposure (inhaled, ingested, absorbed, injected)
 3. General guidelines for managing a poisoned patient
 4. Pathophysiology, epidemiology, psychosocial impact, clinical presentations and management of the following toxidromes and poisonings:
 - a. Cholinergics
 - b. Anticholinergics
 - c. Sympathomimetics
 - d. Sedative hypnotics
 - e. Opiates
 - f. Alcohol intoxication and withdrawal
 - g. Over-the-counter and prescription medications
 1. Psychotropic medications
 2. Cardiovascular medications
 3. NSAIDs and other common ingestions
 - h. Carbon monoxide and cyanide
 - i. Illegal drugs
 - j. Herbal preparations
 - k. Acids, alkalis, hydrocarbons, metals and alcohols
 5. Specific antidotes and treatments for common toxicological emergencies
- F. Hematology
1. Review of blood components

2. Pathophysiology, epidemiology, psychosocial impact, clinical presentations and management of:
 - a. Sickle cell disease
 - b. Blood transfusion complications
 - c. Hemostatic disorders
 - d. Lymphomas
 - e. Red blood cell disorders
 - f. White blood cell disorders
 - g. Coagulopathies
- G. Psychiatric emergencies
 1. Patient assessment and history taking in the psychiatric patient
 2. De-escalating techniques
 3. Methods for restraining a patient: physical and chemical
 4. Pathophysiology, epidemiology, psychosocial impact, clinical presentations and management of:
 - a. Acute psychosis
 - b. Agitated delirium
 - c. Cognitive disorders
 - d. Thought disorders
 - e. Mood disorders
 - f. Neurotic disorders
 - g. Substance-related disorders and addictive behavior
 - h. Somatoform disorders
 - i. Factitious disorders
 - j. Personality disorders
 - k. Patterns of violence, abuse or neglect
 - l. Organic psychosis
 5. Review of commonly prescribed psychiatric medications
- H. Environmental emergencies
 1. Review of thermoregulation
 2. Basic properties of gases
 3. Pathophysiology, assessment and management of:
 - a. Near-drowning and drowning
 - b. Temperature related illness
 1. Hypothermia and cold-related emergencies
 2. Hyperthermia and heat-related emergencies
 - c. Dysbarism
 1. High altitude disorders
 2. Diving related injuries and illness
 - d. Electrical injury
 - e. Bites and envenomations
- I. Non-traumatic musculoskeletal disorders
- J. Disorders of the eyes, ears, nose and throat
- K. Differential diagnosis of various medical emergencies
- L. Integrated Simulation Lab Scenarios
 1. Team leadership

2. Team member roles
- M. Clinical hospital rotations as assigned

VI. INSTRUCTIONAL METHODOLOGY

A. Assignments

1. In-class Assignments include participation in interactive case review and discussions relating pathophysiology to actual case studies. Students will also participate as team leaders and members in the integrated simulation lab during simulated patient scenarios.
2. Out-of-class Assignments
 - a. Chapter reading from the textbooks as assigned on the course syllabus to be completed before the class session.
 - b. Online assignments:
 1. Review of the posted slides and outlines
 2. Take online multiple-choice quizzes associated with each chapter before coming to class.
 3. Forum discussion: participate in message board discussion related to topics discussed in class as method of continuous study and peer-guided learning.

B. Evaluation

1. In class assignments: students will be awarded points for quality of contributions during discussion and successful team leadership during simulated patient scenarios.
2. Written examinations include multiple-choice, true/false, short answer critical thinking questions within each topic area, designed to assess foundational knowledge, application and analytical skills in the cognitive domain.
 - a. In class quizzes: Weekly quizzes to assess the cognitive skills on subject matter discussed in the previous week of class.
 - b. Comprehensive final examination covering all assigned chapters and additional materials assigned by the instructor.
3. Online participation will be graded for quality of posted discussion items and completion of quizzes by deadline.
4. Clinical rotations as assigned with emphasis on clinical assessment and treatment associated with medical patients.

C. Textbooks and other instructional materials

1. Mosby's Paramedic Textbook, revised 3rd edition. Mosby/Elsevier Publishing, St. Louis, Missouri, 2007.
2. Insight Learning Management System (Moodle), City College of San Francisco, 2011.
3. Handouts provided by the instructor of case studies and updated materials from EMS standards and guidelines.

VII. TITLE 5 CLASSIFICATION

CREDIT/DEGREE APPLICABLE (meets all standards of Title 5. Section 55002(a)).