EMC 133D Course Outline as of Fall 2018

CATALOG INFORMATION

Dept and Nbr: EMC 133D Title: PARAMEDIC 2B - PEDIATRIC
Full Title: Paramedic Theory 2B - Pediatric and other Emergencies
Last Reviewed: 2/12/2018

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	3.50	Lecture Scheduled	7.50	6	Lecture Scheduled	45.00
Minimum	3.50	Lab Scheduled	9.00	6	Lab Scheduled	54.00
		Contact DHR	0		Contact DHR	0
		Contact Total	16.50		Contact Total	99.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 90.00 Total Student Learning Hours: 189.00

Title 5 Category:	AA Degree Applicable
Grading:	Grade Only
Repeatability:	00 - Two Repeats if Grade was D, F, NC, or NP
Also Listed As:	
Formerly:	EMC 130C

Catalog Description:
Fourth didactic course in a series leading to the completion of paramedic didactic training. Emphasis is on assessment and treatment of the pediatric patient in the field care environment, managing hazardous and mass casualty incidents, along with a didactic summative exam process as required by COAEMSP. Meets standards for both the California Health and Safety Code, Title 22 and the National Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT).

Prerequisites/Corequisites:
Course Completion of EMC 109 (or EMC 260)

Recommended Preparation:

Limits on Enrollment:
Enrollment in Paramedic Academy

Schedule of Classes Information:
Description: Fourth didactic course in a series leading to the completion of paramedic didactic training.
Emphasis is on assessment and treatment of the pediatric patient in the field care environment,

managing hazardous and mass casualty incidents, along with a didactic summative exam process as required by COAEMSP. Meets standards for both the California Health and Safety Code, Title 22 and the National Emergency Medical Services Education Standards (NEMSES) as published by U.S. Department of Transportation (DOT). (Grade Only)
Prerequisites/Corequisites: Course Completion of EMC 109 (or EMC 260)
Recommended:
Limits on Enrollment: Enrollment in Paramedic Academy
Transfer Credit:
Repeatability: Two Repeats if Grade was D, F, NC, or NP

ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:

AS Degree:	**Area**	Effective:	Inactive:
CSU GE:	**Transfer Area**	Effective:	Inactive:
IGETC:	**Transfer Area**	Effective:	Inactive:

CSU Transfer:	Effective:	Inactive:
UC Transfer:	Effective:	Inactive:

CID:

Certificate/Major Applicable:
Both Certificate and Major Applicable

COURSE CONTENT

Student Learning Outcomes:
At the conclusion of this course, the student should be able to:
1. Integrate assessment findings with principles of pathophysiology and knowledge of psychosocial needs to formulate a field impression for ill or injured pediatric patients.
2. Integrate comprehensive knowledge of a differential diagnosis and pharmacology to formulate a treatment plan for the ill or injured pediatric patient.
3. Demonstrate cognitive and psychomotor competencies required to advance to field internship as outlined in the California Health and Safety Code, Title 22 and the National Registry of Emergency Medical Technician.

Objectives:
At the conclusion of this course, the student should be able to:
1. Discuss anatomical, physiological and pathophysiological variations between the adult and pediatric patient.
2. Identify specific growth and development milestones of the various age groups of the pediatric population as they relate to illness or injury.
3. Differentiate the pathophysiological principles and assessment findings unique to the pediatric patient in order to formulate a field impression.
4. Implement a treatment plan for management of an ill or injured pediatric patient.
5. Discuss unique assessment and treatment for children with special needs.
6. Demonstrate paramedic level knowledge, skills and behavior necessary to perform as a paramedic intern in a field care setting.

Topics and Scope:

I. Anatomy and Physiology Unique to Pediatric Population
   A. Airway
   B. Body systems
      1. Respiratory
      2. Cardiovascular
      3. Musculoskeletal
      4. Neurological
      5. Immune
II. Assessment of Pediatric Patient
   A. Growth and development stages
   B. Common response by parents
   C. Techniques unique to children
   D. Differential diagnoses
III. Pathophysiology and Patient Management
   A. Respiratory illnesses
   B. Cardiovascular illness/arrest
   C. Shock states
   D. Altered mental status
   E. Neurological emergencies
   F. Trauma
   G. Pediatric Advanced Life Support (PALS)
IV. Children With Special Health Needs
   A. Child abuse and neglect
   B. Sudden Infant Death Syndrome (SIDS)
   C. Technology assisted
V. Medical Incident Management
   A. Incident Command System (ICS)
   B. Multiple Casualty Incidents (MCI)
   C. Terrorist attacks
VI. Hazardous Materials Incidents
   A. Size up and scene safety
   B. Toxicology and contamination review
   C. Decontamination and protective equipment
   D. Terrorist attacks
VII. Rescue Awareness and Operations
VIII. Review of Didactic Knowledge and Skills

All areas of the Topics and Scope are covered in both the Lecture and Lab portions of the course

Assignment:

Lecture-Related Assignments:
1. Reading 50-80 pages per week
2. Interpretation of 5-10 pediatric treatment protocols
3. Research paper (6 -7 page)

Lab-Related Assignments:
1. Demonstration of 5-10 pediatric skills
2. Quizzes (10)
3. Comprehensive pediatric written exam (1)

4. Pediatric scenarios (5-10)
5. PALS written and practical exam
6. Didactic summative exam, written and practical (1)
7. Title 22 mandated attendance
8. Patient care reports (5 - 10)

Methods of Evaluation/Basis of Grade:

Writing: Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

Technical report writing (patient care reports), research paper	Writing 5 - 10%

Problem Solving: Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

Patient simulations, patient scenarios	Problem solving 10 - 20%

Skill Demonstrations: All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

Skill performance examinations	Skill Demonstrations 30 - 40%

Exams: All forms of formal testing, other than skill performance exams.

Quizzes, short answers, multiple choice, substantive exams	Exams 30 - 40%

Other: Includes any assessment tools that do not logically fit into the above categories.

Affective behavior, attendance, participation in class discussions	Other Category 15 - 25%

Representative Textbooks and Materials:
Pediatric Advanced Life Support Provider Manual. American Heart Association. 2017
Paramedic Care: Principles and Practice, Vols. 1-5. 5th ed. Bledsoe, Bryan and Porter, Robert and Cherry, Richard. Pearson. 2016
FISDAP Tracking and Testing Software