

EMSP 216-EMERGENCY PHARMACOLOGY 2 CREDITS

SYLLABUS

CATALOG DESCRIPTION

Theory course covering the concepts of pharmacokinetics, pharmacodynamics, dosage calculations, and administration of medications in the pre-hospital setting. Includes training in intravenous and intraosseus access and fluid resuscitation.

Prerequisites: Acceptance into the Paramedic Program

Semester Offered: Fall, Spring

COMMON STUDENT LEARNING OUTCOMES

Upon successful completion of San Juan College programs and degrees, the student will demonstrate competency in...

BROAD AND SPECIALIZED LEARNING

Students will actively and independently acquire, apply, and adapt skills and knowledge with an awareness of global contexts.

CRITICAL THINKING

Students will think analytically and creatively to explore ideas, make connections, draw conclusions and solve problems.

CULTURAL AND CIVIC ENGAGEMENT

Students will act purposefully, reflectively, and ethically in diverse and complex environments.

EFFECTIVE COMMUNICATION

Students will exchange ideas and information with clarity in multiple contexts.

INFORMATION LITERACY

Students will be able to recognize when information is needed and have the ability to locate, evaluate, and use it effectively.

INTEGRATING TECHNOLOGIES

Students will demonstrate fluency in the application and use of technologies in multiple contexts.

Student work from this class may be randomly selected and used anonymously for assessment of course, program, and/or institutional learning outcomes. For more information, please refer to the Dean of the appropriate School.

COURSE LEARNING OUTCOMES

Upon successful completion of the course, the student will be able to...

1. Demonstrate the ability to comprehend, apply, and integrate knowledge of pharmacology to formulate a treatment plan intended to mitigate emergencies and improve the overall health of the patient.

2. Foundational knowledge of the principles of pharmacology, medication administration, and emergency medications.

Specific Goals:

1. Integrate comprehensive knowledge of pharmacology to formulate a treatment plan in the prehospital setting, for the patient.
2. Integrate complex depth and comprehensive breadth of medication safety, medication legislation, naming of medications, classifications of medications, schedules for medications, pharmacokinetics, storage and security, autonomic pharmacology, metabolism and excretion, mechanism of action, phases of medication activity, medication response relationships, medications interactions, and toxicity of medications.
3. Integrate complex depth and comprehensive breadth of routes of administration of medication, administration of medications to the patient within the scope of practice of the paramedic.
4. Integrate complex depth and comprehensive breadth of names, actions, indications, contraindications, complications, routes of administration, side effects, interactions, and dosages of medications within the scope of practice of the paramedic.