



ADVANCED CARE PARAMEDIC

KEYANO COLLEGE

COURSE SYLLABUS

ACP 508

Advanced Pharmacology

Term Four Fall 2019

Instructor: Patricia Penton

ADVANCED CARE PARAMEDIC DIPLOMA
2019-2020

INSTRUCTOR: Patricia Penton
Office: S109C
Phone: 780-791-8989
Email: patricia.penton@keyano.ca

HOURS OF INSTRUCTION:

Timetable will be distributed the first day of class.

COURSE DESCRIPTION:

ACP 508 – Advanced Pharmacology 3 credit 45 hours

The Advanced Pharmacology course will utilize the principles of pharmacology to teach paramedic students advanced concepts and principles of Prehospital drug administration. The student will come to realize the importance of pharmacology and drug therapy as a complex role that sets the advanced life support (ALS) provider. As you will soon learn, no drug is without side effects. We must be very good at knowing when to establish and initiate all medications in the pre-hospital care setting. We also are expected to administer infusions and medications that are initiated both in the field and by the sending hospital.

The paramedic is always reassessing the patient in order to see if interventions are appropriate. The paramedic student will find that the cardiovascular and respiratory systems are always a priority in any patient care. The paramedic student will need to be aggressive in locating and treating the current medical or traumatic condition as they present anywhere, anytime and to any patient.

The Advanced Pharmacology course encompasses knowledge of drug actions, interactions, administration routes, and specific dosages applied to medical and traumatic situations. It will be up to the practitioner to decide if a certain medication is warranted and if the benefits outweigh the negative side effects.

COURSE OUTCOMES:

Upon completion of the ACP 508 Advanced Pharmacology course the student will be able to:

- Value the role of medication administration in providing advanced life support in the prehospital care setting.

- Be responsive and organized in their approach as a sole rescuer in charge of medication administration in an advanced life support service.
- Use effective analytical skills in assessing drug therapy intervention options while maintaining a ‘Do no harm’ philosophy in all medication administration.
- Compare and analyze the routes and absorption rates of all emergency medications used in the paramedic unit when providing advanced life support.
- Analyze and apply pharmacology administration knowledge to treat all acute illnesses or injuries found in Prehospital care.
- Be confident in treating toxicology and behavioral emergencies with the appropriate pharmacology as required.
- Provide accurate and precise drug calculations for any medication calculation on any occasion.
- Understand the importance, and process, of updating pharmacology knowledge to standard-of-care changes on a continual base throughout your career.

COURSE EVALUATION:

Module Quizzes (15%)	15%
Module Group Learning Activities x 2	
1. Thrombolytic Essay	10%
2. Rapid Sequence Induction Research Project	10%
Midterm x 2 (Multiple Choice Exam) (15% Each)	30%
Final Exam (Multiple Choice Exam)	35%

COURSE TEXTBOOKS:

Textbook of Adult Emergency Medicine 5th Edition

Nancy Caroline's Emergency Care in the Streets, Seventh Edition Canadian, (2016)

Advanced Cardiac Life Support (ACLS). 2015, American Heart Association.

Pediatric Advanced Cardiac Life Support (PALS). 2015, American Heart Association.