

ACP 503 – Prehospital Skills

6 credits – 20 hours lecture (TBD), 40 hours lab (tech weeks – see Course Schedule below)

Course Description

The Prehospital Skills course focuses on simulated learning experiences where the student relates knowledge and values of Paramedicine and practicing common Skills. The student will demonstrate mastery of a Basic Life Support (BLS) Assessment Survey and apply skills to scenario situations. The student will complete independent study before practicing or demonstrating the skills in the laboratory environment.

When following the activities as guidelines, the student will gain a better understanding of the responsibilities of a paramedic. The student will appreciate the importance of BLS competency when assessing the need for ALS interventions. Each module is progressive and affirms BLS abilities.

Co-requisites: ACP 501 and ACP 502

Instructor

Adam Hiscock ACP

Office: BL253

Instructor Contact:

adam.hiscock@keyano.ca

Microsoft teams

Office Hours

0800 – 1700

Required Textbook

American Academy of Orthopaedic Surgeons (AAOS); Paramedic Association of Canada; Caroline, N. (2020). Nancy Caroline's Emergency Care in the Streets Advantage Package (Canadian Edition; 8th ed.).

Course Outcomes

Upon successful completion of the course the student will demonstrate in a lab setting:

- Application of foundational principles of normal human anatomy and physiology to pathophysiological processes
- Perform high fidelity simulation (HFS) to enhance knowledge and praxis
- Utilize Oxygen Administration
- Administer Oxygen with application of Pocket Mask
- Administer Oxygen with application of Nasal Cannula
- Administer Oxygen with application of Non Rebreather Mask
- Administer Oxygen with application of Bag Valve Mask
- Administer Oxygen with application of King LT
- Administer Oxygen with application of Laryngeal Mask Airway ▪ Upper Airway Adjuncts:
- maintain an airway with Oropharyngeal airway
- maintain an airway with Nasopharyngeal airway
- Suctioning
- Monitoring of Heart Rate, SpO2, EtCO2, Respirations, Blood Pressure on all airway applications and Interventions
- Maintain peripheral intravenous (IV) access devices and infusions of crystalloid solutions without additives.
- Demonstrate the ability to perform intravenous administration of medications.
- Conduct peripheral intravenous cannulation.
- Administer volume expanders (colloid and non-crystalloid).
- Follow safe process for responsible medication administration.
- Administer medication via subcutaneous route.
- Administer medication via intramuscular route.
- Administer medication via intravenous route.
- Administer medication via sublingual route.
- Administer medication via oral route.
- Administer medication via inhalation.
- Administer medication via intranasal route
- Demonstrate the ability to operate an infusion pump.
- Demonstrate the ability to use medications from a variety of containers
- Combat Application Tourniquet
- Pressure Infuser Administration
- Provide Routine Urinary Catheter Care
- Obtain 12 Lead ECG
- Vital Signs
- Glucose Monitoring
- Traction Splinting
- Spinal Immobilization
- Cardiac Arrest Management and AED
- Suctioning

Evaluation

- Students must achieve a minimum of 80% (B+) grade for total course grade to progress.
- Tech weeks and the Final Exam require mandatory attendance. Absences will require prior approval.
- Successful completion of the Prehospital Skills course is determined from the following activities.

Module One BLS Assessment Mastery	20%
Module Two Skills Qualification Stations	20%
Module Three Skills Qualification Stations	20%
Module Four Skills Qualification Stations	20%
<u>Final Written Exam</u>	<u>20%</u>
Total	100%

Grading System

Descriptor	Alpha Scale	4.0 Numeric Scale	Percentage
Excellent	A+	4.0	96-100
	A	4.0	90-95
	A-	3.7	85-89
Good	B+	3.3	80-84
	B	3.0	76-79
	B-	2.7	72-75
Satisfactory	C+	2.3	68-71
	C	2.0	64-67
	C-	1.7	60-63
Poor Minimum Pass	D+	1.3	55-59
	D	1.0	50-54
Failure	F	0	0-49

Course Schedule

February 13-17, 2023 0900-1700	TECH WEEK (ON-SITE) Material covered from ACP 501 and ACP 502: <ul style="list-style-type: none"> • Cells • Tissues • MSK • NS • Endocrine
February 20-24, 2023	READING WEEK
March 20-24, 2023 0900-1700	TECH WEEK (ON-SITE) Material covered from ACP 501 and ACP 502 as above and includes: <ul style="list-style-type: none"> • CVS (heart, vessels, blood) • Lymphatic System • Respiratory System
Date TBD	FINAL EXAM

Please Note:

Date and time allotted to each topic is subject to change.

BLS Assessment Mastery

Throughout this course, the student must demonstrate mastery in Basic Life Support Assessment Surveys. All SQ exams use both objective and subjective evaluation criteria. To achieve the **minimum 20%** for this assignment, the student must first demonstrate mastery in the ability to follow the *BLS Assessment Survey*. This assignment is in the first module, but the student must maintain the competency throughout the course.

Tech Day Participation/ The Integration Exercises (Modules 2, 3 and 4)

The Integration Exercises will assist the student with relating the required knowledge to the competencies that they practice. Students will participate in scheduled dates with their instructor in mediated lab practice and evaluation of competencies. This activity is worth **60% of the Final Course Grade**.

Final Written Exam

The student will have to write a comprehensive final exam covering all components of the course. This exam represents **20% towards the final course grade**.

The SQ Exam Criteria Table

Assessment Survey 100% required	The patient assessment is a critical action and students must achieve 100% in each SQ exam. Students will complete all patient assessments by following the <i>Assessment Survey Guidelines</i> .
Prerequisite Competencies	Students must consider the <i>EMR and PCP Competency Profiles</i> as prerequisites knowledge and skills of an average BLS provider. These skills can apply to every SQ exam.
Scenario Grading Tool	A Scenario Grading tool, found at the end of Module Two, Three, and Four will evaluate the student's application of the competencies practiced in the module.
Objective Evaluation	The objective evaluation grades the student's ability to apply the competency guidelines. Instructions will document strengths and weaknesses explaining the rationale for the grades.
Subjective Evaluation	<p>The student will answer four questions relating theory to the competency application. The questions will address the following concepts and are at the discretion of the evaluator.</p> <ul style="list-style-type: none"> • Explain the patient's level of consciousness relating the MOI to the level of consciousness. • Apply Objective Assessment Indices. • How did you make the decision to maintain or rule out c-spine stability? • Name potential or expected complications of this patient's airway and lung compliance? • Explain why you used this airway equipment and techniques. • Explain your assessment priorities? • Explain when, during the scenario, an assessment finding required an intervention? • What were the treatment priorities for this patient? What were the "red-herrings?" • Relate the equipment to transportation requirements of this patient. What resources are required? • Explain your transport decisions. How could ALS skills help or harm this patient? • Which was the first ALS skill applied to this patient? Why? • Relate this patient's history with MOI. • Identify the priority communication requirements when transferring patient history to higher level of care.

Course Prerequisites

Prerequisite Knowledge and Skill Base – PCP Scope of Practice

Formative and Summative Evaluation

Evaluation in this program is both formative and summative in nature.

Formative evaluation will occur throughout each course and is intended to provide instructor and student with information about the student progression in achieving course specific outcomes and goals. The information obtained from the evaluation processes will be utilized to provide direction for your future learning activities.

Summative evaluation occurs at the end of the course and is used along with formative evaluation to determine student performance in the course as well as progression in the program.

Performance Requirements and Student Services

Student Responsibilities

As a student, it is your responsibility to contact the Office of the Registrar to complete the required forms, including the Withdraw Course or Program or a Change of Registration form. Please refer to the important dates listed in the Academic Schedule in the [Keyano College credit calendar](#). The Keyano College credit calendar also has information about Student Rights and the Code of Conduct. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and the Code of Conduct Policies.

Student Attendance

Class attendance is helpful for two reasons: First, class attendance maximizes a student's learning experience. Second, attending class is an excellent way to keep informed of matters relating to the course administration (e.g., the timing of assignments and exams). Ultimately, you are responsible for your learning and performance in this course. It is the responsibility of each student to be prepared for all classes. Absent students are responsible for the material covered in those classes, and students must ensure they are ready for their next class, including completing any missed assignments and notes.

Academic Misconduct

Students are considered responsible adults and should adhere to the principles of intellectual integrity. Intellectual dishonesty takes many forms:

- Plagiarism or the submission of another person's work as their own,
- The use of unauthorized aids in assignments or examinations (cheating),
- Collusion or the unauthorized collaboration with others in preparing work,
- The deliberate misrepresentation of qualifications,
- The willful distortion of results or data,
- Substitution in an examination by another person,
- Submitting unchanged work for another assignment, and
- Breach of confidentiality.

The consequences for academic misconduct range from a verbal reprimand to expulsion from the College. More specific descriptions and details are found in the Student Rights and Code of Conduct section of the Keyano College credit calendar. It is the responsibility of each student to be aware of the guidelines outlined in the Student Rights and Code of Conduct Policies. To ensure your understanding of plagiarism, you may be required to complete the online [Understanding Plagiarism tutorial](#) and submit the certificate of completion.

Online Learning

Technology and internet connectivity will impact your online learning experience. You may be required to watch online videos, take online quizzes, or participate in live online classes. Live/virtual courses will be hosted in Microsoft Teams or Zoom. For all course delivery types, you will access your course resources on Keyano's learning management system: Moodle (iLearn). Login in using your [Keyano username and password](#). Keyano College operates in a Windows-based environment and having access to the correct tools for online learning is essential.

Internet Speed

Minimum download and upload speeds of 10 Mbps. Recommended download speeds of 25 Mbps and upload speeds of 10 Mbps (if you are sharing your internet at home). You can check your internet speed with [Speedtest by Ookla](#).

Computer System Requirements

Keyano College software are Windows based.

Minimum Requirements and Recommended Upgrades for Windows (preferred system) and Apple devices

These minimum standards are required for a Windows computer/laptop (OS 10 or 11) and a Macintosh (OS 10.14 or above).

1. Windows 10 Operating System or above
2. 4GB of RAM. Recommended upgrade to 8GB of RAM.
3. 10GB+ available hard drive storage space. Note installing Microsoft Office 365 requires 3GB of available hard drive space.
 - a. Install the Microsoft Office 365 suite (~3GB) *
4. Microphone, webcam, and speakers (All modern laptops have these three accessories built-in. However, a headset or earbuds with a microphone is also recommended).
5. Windows has built-in anti-virus/malware software. It is essential to install system updates to keep your device secured regularly.

*[Microsoft Office 365](#) is free to Keyano students.

Tablets, iPads, and Chromebooks are **not** recommended: they may not be compatible with the testing lockdown browsers and Microsoft Office 365.

Specific Department Requirements

Business and OA programs require Windows 10 or higher.
Other programs may utilize Windows-based tools as well.

Computer Software

Students have access to Microsoft Office 365 and Read & Write for free using Keyano credentials.

See [Recommended Technology](#) for more information.

Recording of Lectures and Intellectual Property

Students may only record a lecture if explicit permission is provided by the instructor or Accessibility Services. Even if students have permission to record a lecture or lecture materials, students may not share, distribute, or publish any of the lectures or course materials; this includes any recordings, slides, instructor notes, etc., on any platform. Thus, no student is allowed to share, distribute, publish or sell course-related content without permission. It is important to recognize that the Canadian Copyright Act contains provisions for intellectual property. The [Academic Integrity Policy](#) provides additional information on Keyano College's expectations from students as members of the intellectual community.

ITS Helpdesk

If you have issues with your student account, you can contact the ITS Helpdesk by emailing its.helpdesk@keyano.ca or calling 780-791-4965.

Specialized Supports

The Student Services Department is committed to Keyano students and their academic success. There is a variety of student support available at Keyano. All student services are available during Keyano business hours: Monday to Friday, 8:30 a.m. to 4:30 p.m. The College is closed on statutory holidays. If you require support outside of regular business hours, please inform the support service team, and they will do their best to accommodate your needs.

Accessibility Services provides accommodations for students living with disabilities. Students with documented disabilities or who suspect a disability can meet with an Access Strategist to discuss their current learning barriers and possible accommodations. Students who have accessed accommodations in the past are encouraged to contact the department to request accommodations for the following semester. Please note that requesting accommodations is a process and requires time to arrange. Contact the department as soon as you know you may require accommodations. For accessibility supports and disability-based funding, please book an appointment by emailing us at: accessibility.services@keyano.ca.

Accessibility Services also provides individual and group learning strategy instruction for all students and technology training and support to enhance learning. You can meet with an Access Strategist to learn studying and test-taking strategies. In addition, you can schedule an appointment with the Assistive Technology Specialist to explore technology tools for learning. Book an appointment today by emailing: accessibility.services@keyano.ca

Wellness Services offers a caring, inclusive, and respectful environment where students can access free group and individual support to meet academic and life challenges. Mental Health Coordinators provide a safe and confidential environment for you to seek help with personal concerns. Our Wellness Navigator offers support with basic needs such as housing, financial and nutritional support, and outside referrals when needed. Wellness Services welcomes students to participate in group sessions that address topics including mindfulness and test anxiety throughout the academic year. Individual appointments can be made by emailing wellness.services@keyano.ca.

Library Services provides students with research, information, and educational technology supports as they engage in their studies. Library staff are available to help you online and in person throughout the semester. Librarians offer individual and small group consultations booked using the online [Book A Librarian calendar](#). The library also provides virtual research and subject guides to help you with your studies. Find the guide that supports your course-related research by viewing the complete list of online [Subject Guides](#). To start your research and access citation guides (APA, MLA, Chicago, or IEEE), visit the [Research Help page](#). The library's collections (including print and online materials) are searchable using [OneSearch](#). The library offers a Loanable Technology collection to support students accessing and using technology. For an up-to-date list of technology available for borrowing, visit the library's [Loanable Technology webpage](#). For a detailed list of library resources and services, go to www.keyano.ca/library. For all inquiries, please email askthelibrary@keyano.ca or [chat with us online](#).

The **Academic Success Centre** at Keyano College (CC-119) provides **free** academic support services to registered students, such as tutoring, writing support, facilitated study groups, workshops, and study space. Academic Content Specialists are available in Mathematics, Science, Trades, Power Engineering, Upgrading/College Prep, Human Services, English, Humanities, and more. Students are encouraged to visit the Academic Success Centre to discuss study strategies and academic concerns. For additional information, please email Academic.Success@keyano.ca.

The **Academic Success Coach** is located in the Academic Success Centre and works with students to develop academic success plans, time management skills, study strategies, and homework plans. For additional information, please email Academic.Success@keyano.ca.

Authorization

This course outline has been reviewed and approved by the Program Chair.

[Adam, Hiscock], Instructor

[Candi, Muise], Chair

Date Authorized

[Arlene, Starks], Dean

Date Authorized

Signed copies to be delivered to:

Instructor