

ACP 516, Introductory Life Support

3 credits, 3 hour classes + Tech Weeks (45 hours total)

This course consists of value-added courses currently recognized as standards within the pre-hospital industry, including International Trauma Life Support – Advanced (ITLS-A), Geriatric Education for Emergency Medical Services (GEMS) and Pediatric Education for Prehospital Professionals (PEPP).

Pre-requisites: ACP 501, ACP 502, and ACP 503

Co-requisites: ACP 505 and ACP 507

Instructors

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Office Hours

Monday - Friday 08:00 – 17:00

Hours of Instruction

Mondays and Wednesdays 12:00 – 15:00

ACP 516 - Course Zoom Link

<https://keyano.zoom.us/j/aGf9HdV7b>

Required Resources

- **ECGs made easy**. Aehlert, B., 7th edition.
- **The 12-lead ECG in acute coronary syndromes**. Phalen, T., & Aehlert, B., 4th edition.
- **International Trauma Life Support for Emergency Care Providers**, 9th edition.
- **Pathophysiology: The biologic basis for disease in adults and children**. McCance, K. L., & Huether, S. E., 8th edition.

Course Outcomes

Upon successful completion of the course, the student shall be able to:

- Recall knowledge of the anatomy, physiology, and pathophysiology of the cardiovascular system and coronary arteries.
- Understand basic electrophysiology of the heart and demonstrate knowledge using a systematic approach for all ECG rhythms.
- Interpret clinical findings based on physical examination of acute coronary syndromes.
- Interpret 12- and 15-lead ECGs using a systematic approach and outline significant findings.
- Demonstrate techniques for applying a 12-and 15-lead ECG's.
- Understand and demonstrate standard approaches to medical and trauma patients.
- Understand and demonstrate the primary and secondary ABCD's of ACLS during cardiac arrest management.
- Conduct an Advanced International Trauma Life Support (ITLS) assessment and interventions.
- Explain anatomy, physiology, indications, contraindications, complications, and explain/demonstrate skills associated with ITLS and updated PCP scope of practice, such as:
 - iGel insertion
 - Needle thoracostomy
 - Spinal motion restriction
 - Traction splinting
 - Trauma dressings
 - Venous blood drawing
 - Blood product maintenance infusions
 - Intraosseous (IO) initiation and maintenance
 - Monitoring PICC lines
 - Interpret and monitor core temperature
- Understand the pathophysiology of shock and differentiate between the types.
- Recognize clinical situations requiring pain assessment and management across the life span.
- Understand and demonstrate knowledge for key pathogens and modes of transmission.
- Understand and demonstrate proper hand-hygiene practices.
- Understand and demonstrate a Point of Care Risk Assessment (PCRA) and how to select appropriate Personal Protective Equipment (PPE) for:
 - Contact precautions
 - Airborne precautions
 - Droplet precautions
- Discuss the special challenges for pediatric and geriatric assessments.
- Differentiate the three elements of the Pediatric Assessment Triangle (PAT) in the primary (initial) assessment.
- Outline the unique considerations and additional assessment measures for child and geriatric patients, including history taking, primary assessments, secondary assessments, and monitoring devices.

Evaluation – see Moodle for quiz due dates

Subject		Grade Weight
Quizzes (5) Each quiz is worth 6%	Module 1 ECG Interpretation	30%
Quizzes (4) Each quiz is worth 7.5%	Module 2 12- and 15- lead ECG's	30%
Quiz (1) Competency sign off during tech week (2 demonstrations of competence)	Module 3 Advanced ITLS assessments and skills	15% P/F during tech weeks
Quiz (1)	Module 4 Pediatric and Geriatric considerations	15%
Quiz (1)	Module 5 Infection Control	10%
Total course grade		100%

Grading System

- Students must achieve a minimum of B grade (76%) for total course grade to progress.
- Midterm and Final Exams require mandatory attendance. Absences will require prior approval.
- Absence from exams and quizzes require informing the instructor prior to class and will be handled based on Policies and Procedures for Keyano College.
- Competency based skills during lab require **two (2) sign offs** by an instructor **to pass** ACP 516.

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

Proposed Schedule

See the class schedule, topics, and readings as attached.

Week	Modules	NOCP Competencies
Week 1 May 8 & 10, 2023	Module 1 – ECG Interpretation <ul style="list-style-type: none"> Chapters 1-3 	Area 4.5 – m Appendix 4C – A
Week 2 May 15 & 17, 2023	Module 1 – ECG's Interpretation <ul style="list-style-type: none"> Chapters 4-5 	Area 4.5 – m Appendix 4C – A
Week 3 May 23 & 24, 2023	Module 1 – ECG's Interpretation <ul style="list-style-type: none"> Chapters 6-8 	Area 4.5 – m Appendix 4C – A
Week 4 May 29-June 2, 2023	TECH WEEK <ul style="list-style-type: none"> Review of Chapters 1-8 	Area 4.5 – m Appendix 4C – A
Week 5 June 5 & 7, 2023	Module 2 – 12-15-lead ECG's <ul style="list-style-type: none"> Chapters 1-2 Chapter 3.1 	Area 4.3 – c Area 4.5 – n Appendix 4C – A
Week 6 June 12 & 14, 2023	Module 2 – 12-15-lead ECG's <ul style="list-style-type: none"> Chapter 3.2 Module 2 – 12-15-lead ECG's <ul style="list-style-type: none"> Chapter 4 	Area 4.3 – c Area 4.5 – n Appendix 4C – A
Week 7 June 19-23, 2023	TECH WEEK <ul style="list-style-type: none"> Module 2 – review (3hrs) Module 3 – ITLS concepts and Intermediate Skills (3 hrs) Module 4 – Pediatric and Geriatric Considerations (3 hrs) 	Area 1.5 – a,b Area 1.6 – a,b,c Area 3.3 – a,b, Area 4.2 – a,b,c,d,e,f Area 4.3 – a,b,c,d,e,f,i,j,k,n,o Area 4.4 – a,b,c,d,e,f,g,h,i Area 4.5 – a,b,c,d,g Area 5.1 – a,b,c,d,e,f,g Area 5.2 - all Area 5.3 – all Area 5.4 – a,b Area 5.5 – e, f, h, s Area 5.6 - all Area 5.7 – all Area 5.8 – b,c,d,e,f,h,i,j,k,l,m,n,o Area 6.2 – b,c Appendix 4C – A,B,C,E,F,G,I,J,L,N,M,P *iGel
Week 7 June 26 & 28, 2023	Module 5 – Infection Control	Area 3.3 - f, g, h Appendix 4C – C,P

Please Note:

The date and time allotted to each topic are subject to change.

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 [Withdrawal/Drop Form](#). All forms are available on the [College website](#). Please refer to the important dates listed in the Academic Schedule in the [Keyano College credit calendar](#) and/or on the [College website](#). It is the responsibility of each student to be aware of the guidelines outlined in the [Student and Academic 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.

Course Evaluation

Midterm exams and term work is to be completed at the time/date indicated in your course syllabus. It is the expectation of the College that students make every reasonable effort to complete all course evaluation, including, quizzes, midterms, and exams, as scheduled. In the event of an emergency, rescheduling of exams and/or extensions are only provided at the discretion of the course instructor. Students should contact the instructor as soon as they are able, to notify them of missing an evaluative component. Instructors will use discretion in deciding whether circumstances justify granting a reschedule and/or extension.

Regular term quizzes, midterms, and exams are not eligible for deferral and/or date extension accommodations. Students with accommodations, please refer to Accessibility Services.

Final Exams are subject to deferral processes, please refer to the current [Keyano College Credit Calendar](#).

Academic Integrity & Misconduct

Academic integrity requires commitment to the values of honesty, trust, fairness, respect, and responsibility. It is expected that students at Keyano College will adhere to these ethical values in all activities related to learning, teaching, research, and service. Any action that contravenes this standard, including misrepresentation, falsification, or deception, undermines the intention and worth of scholarly work and violates the fundamental academic rights of members of our community.

Academic 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),
- Using Artificial Intelligence (AI) to complete coursework (without instructor approval),
- 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.

In all academic work, the ideas and contributions of others must be appropriately acknowledged and work that is presented as original must be, in fact, original. Using an AI-content generator (such as ChatGPT)

to complete coursework without proper attribution or authorization is a form of academic dishonesty. If you are unsure about whether something may be plagiarism or academic dishonesty, please contact your instructor to discuss the issue.

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 & Academic Policies* 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, Academic Integrity, and Non-Academic Misconduct 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).
<ol style="list-style-type: none">1. Windows 10 Operating System or above2. 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.<ol style="list-style-type: none">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. <p>*Microsoft Office 365 is free to Keyano students.</p>
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

Keyano College 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.

Specialists in the Academic Success Centre also work 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.

[Manpreet, Uppal], Instructor
[Trevor, Rivers], Instructor

[Candi, Muise], Chair

Date Authorized

[Arlene, Starkes], Dean

Date Authorized

Signed copies to be delivered to:

Instructor – Manpreet Uppal
Instructor – Trevor Rivers