

ACP 513, Advanced Life Support

3 credits, 72 hours

Course Description

This course consist of value-added courses currently recognized as standards within the pre-hospital industry, including Advanced Cardiac Life Support (ACLS), Pediatric Advanced Life Support (PALS) and Neonatal Resuscitation Program (NRP).

Pre-requisites: ACP 501, ACP 502, ACP 503, ACP 505, ACP 506, ACP 507, ACP 508, ACP 509, ACP 510, ACP 516, ACP 517, ACP 518, and CPR/BLS

Co-requisites: ACP 504, ACP 511, and ACP 514

Instructor

Manpreet Uppal ACP

Office: BL255

Email: manpreet.uppal@keyano.ca

Contact via email and/or MS teams

Office Hours

0800 - 1700

Hours of Instruction

30 hours

Resources

American Academy of Pediatrics., & American Heart Association. (2020). *Pediatric advanced life support – provider manual: PALS*.

Field, J. M., Gonzales, L., Hazinski, M. F., Ruple, J. A., & American Heart Association. (2020). *Advanced cardiovascular life support - provider manual: ACLS*.

Weiner, G. M., Zaichkin, J., American Academy of Pediatrics., & American Heart Association. (2021). *Textbook of neonatal resuscitation*.

2020 Handbook of Emergency Cardiovascular Care for Healthcare Providers. (2020). American Heart Association.

Course Outcomes

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

- Implement all prior course materials for understanding and delivery of emergency ALS care.
- Demonstrate ECG interpretation with associated treatments using ACLS and PALS algorithms.
- Understand and demonstrate ACLS guidelines and treatments for certification and practice.
- Understand and demonstrate PALS guidelines and treatments for certification and practice.
- Understand and demonstrate NRP guidelines and treatments for practice.
- Understand and demonstrate team approaches and call management during scenarios and high-fidelity simulations (HFS's)

Evaluation

- Students must achieve a minimum of **76%** (B) for an overall grade in this course (outlined by the Heart and Stroke Foundation of Canada).
- Supporting information and links can be found under each module heading in Moodle.
- ACLS and PALS:
 - Students must achieve 70% in the online courses to proceed into the face-to-face course held on tech week (required for certification).
 - Current CPR/BLS is required throughout this course.
- Tech weeks require mandatory attendance and contribute to your practical hours and certifications. Absences will require approval and will be handled based on Policies and Procedures for Keyano College: <https://www.keyano.ca/en/about-us/policies-and-procedures.aspx>

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

Evaluation	Grade weight
<p>ACLS</p> <ul style="list-style-type: none"> • Certification Course April 13th & 14th, 2023 (Tech Week) • Must pass practical and written exam • Minimum 70% for online course and must be completed by 23:59 hours on April 10th, 2023 	30%
<p>PALS</p> <ul style="list-style-type: none"> • Exam April 11th & 12th, 2023 (Tech Week) • Must pass practical and written exam • Minimum 70% for online course and must be completed by 23:59 hours on April 10th, 2023 	30%
<p>Participation</p> <ul style="list-style-type: none"> • Attend all tech week hours (mandatory) • Classes attended are worth 3% when attended (only excused absences will get attendance marks) 	20%
<p>Exams</p> <ul style="list-style-type: none"> • 2 Exams • Each quiz is worth 10% of final grade • Each Exam will have 25 questions total 	20%
<p>Total Course Grade</p>	100%

Proposed Schedule

Classes occur on Wednesday's from 12:00 – 15:00 hrs

Dates	Modules and content
February 1, 2023	Module 1: ACLS – Bradycardia's <ul style="list-style-type: none"> • Read ACLS pages 1-24 • Read ACLS pages 66-74
February 8, 2023	Module 1: ACLS – Tachycardia's <ul style="list-style-type: none"> • Read ACLS pages 75-89
February 15, 2023	Module 1: ACLS – AMI, CVA, and Cardiac Arrest <ul style="list-style-type: none"> • Read ACLS pages 27-65 • Read ACLS pages 91-159
March 1, 2023	Module 2: PALS – Pediatric Assessment <ul style="list-style-type: none"> • Read PALS pages 1-69
March 8, 2023 March 29, 2023	Module 2: PALS – Respiratory, Shock and Cardiac Arrest <ul style="list-style-type: none"> • Read PALS pages 71-106 • Read PALS pages 109-162 • Read PALS pages 165-275
April 10, 2023	Complete online courses in ACLS and PALS <u>prior</u> to testing during specified tech week <ul style="list-style-type: none"> • <i>*Verified completion of online modules for ACLS and PALS</i> • <i>*Verification of current CPR/BLS</i>
April 11-21, 2023	TECH WEEK <ul style="list-style-type: none"> • April 11-12: PALS certification - course and testing • April 13-14: ACLS certification - course and testing • April 16-17: ITLS certification – course and testing
May 3, 2023	ACLS EXAM 25 questions
May 10, 2023 May 15-19, 2023	PALS EXAM 25 questions TECH WEEK <ul style="list-style-type: none"> • Scenario's will include all content throughout the ACP program for clinical praxis

Please Note:

Date and time allotted to each topic is 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 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).
<ol style="list-style-type: none"> 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. <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

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.

[Manpreet, Uppal], Instructor

[Candi, Muise], Chair

Date Authorized

[Arlene, Starks], Dean

Date Authorized

Signed copies to be delivered to:

Instructor