Winter, 2023

PCP 400, Integrated Theory

6 credits, 128 hours

Course Description

This course provides the theory needed for a Primary Care Paramedic. Students integrate theory in the areas of communication, anatomy and physiology, essentials, pharmacology, and legal and ethical issues in pre-hospital care. PCP 400 - Integrated Theory is comprised of five modules that occur over approximately nine weeks to provide the theoretical foundation needed for a PCP.

Co-requisites: PCP 406, PCP 407

Instructors

Maddie Dodge Maddie.dodge@keyano.ca

Office: BL 255

Additional instructors will facilitate program delivery throughout the program

Instructor Hours

Weekdays from 08:00 – 17:00

Hours of Instruction

Refer to timetable provided in Moodle for hours of instruction.

Required Resources

Refer to Moodle and/or Keynotes bookstore for required textbooks

Course Outcomes

COMMUNICATIONS MODULE

Module Description:

A PCP is responsible for medical information every day. The medical information obtained from a patient is often shared with other members of the health care team. Accurate and timely sharing of this information assists to promote continuity of care for the patient. In this module, the learner will practice techniques used to obtain patient information, communicate effectively, and communicate patient information in a variety of methods to other members of the health care team.

Module Outcomes (NOCP Competencies)

Upon completion of this module the student will be able to:

1. Collect relevant and accurate patient data. (1.1.a; 2.1.c; 4.2.a-e)
2. Understand and demonstrate the ability to adapt communication techniques based on patient history and current incident. (1.1.b,d; 2.1.a-b, d-f; 2.2.b; 2.4.c,f; 4.2.f)
3. Document patient information in an organized manner. (1.3.c; 2.1c; 2.2.a)
4. Verbalize and demonstrate behaviors that maintain patient confidentiality and protect patient information. (1.1.a; 1.1.e; 1.3.b)
5. Demonstrate the ability to deliver organized, accurate, and relevant patient information via a radio report. (1.1.b; 2.1.a-c; 2.2.a-b)
6. Demonstrate the ability to deliver organized, accurate, and relevant patient information via a verbal report. (1.1.b; 2.1.a-c; 2.2.a-b)
7. Use technical vocabulary and medical terminology appropriately and accurately in written and verbal communication. (1.1.b; 2.1.g; 2.2.a)
8. Demonstrate professional behaviors related to therapeutic communication, establishing trust and rapport, diplomacy, tack, and discretion with patients and other members of the health care team. (1.1.a-d; 1.5.a, b, d; 2.1.e; 2.3.a-d; 2.4.a-b, d-e, g)
9. Demonstrate effective conflict resolution and defusing skills. (2.4.e; 2.4.h; 3.3.d)

Module Evaluation:

✓ Integrated Assignment Patient Care Report (PCR) Assignment is worth **10%** of the overall mark in PCP 400 course.
✓ Lesson 2 – Peer Review assignment is worth **5%** if your overall mark in the PCP 400 course.

ANATOMY AND PHYSIOLOGY MODULE

Module Description:

A PCP must have a basic understanding of human body structure and of how the human body functions. This knowledge allows a PCP to make informed pre-hospital assessments and treatment decisions when patients are in distress. This module will introduce the normal functioning components of the human body. The student will apply this knowledge to all assessment and treatment skills.

Module Outcomes: (NOCP Competencies)

Upon completion of this module the student will be able to:

1. Describe how the body attempts to maintain homeostasis
2. Describe the organization of the human body (4.4.a, b, h)
3. Explain the relationship between cells, tissues, organs and systems (4.5.c)
4. Recognize the links between structure and normal body function for major organs in each body system (4.4.a, b, d, e, g, h; 4.5.a, c, l)
5. Relate anatomy and physiology knowledge to PCP skills
6. Use technical vocabulary and medical terminology related to anatomy in written and verbal communication. (1.1.b; 2.1.a, b, g; 2.2.a, b)

Evaluation:

✓ One multiple choice exam worth **10%** of the overall mark in PCP 400 course.

PRE-HOSPITAL ESSENTIALS MODULE

Module Description:

In this module, through a series of eleven comprehensive lessons, the student will learn the essential theoretical knowledge required of a PCP practitioner. Students will participate in opportunities to apply their knowledge to skills practice in the classroom/lab setting.

Note: Students will participate in lectures, group discussions, and independent learning practices to help them prepare to work as a PCP. During class time, instructors will provide direction to students, however, the expectation is that students will work together outside of class time to complete the learning activities found in each lesson.

Module Outcomes: (NOCP competencies/)

Upon completion of this module the student will be able to:

1. Demonstrate knowledge of appropriate techniques (inspection, palpation, percussion, and auscultation) related to objective assessments of all body systems. (4.3.a,b,c,d,e; 4.3.g-n; 4.4.a,f,g,h,I; 6.2.d,e)
2. Demonstrate knowledge of the specialized assessment techniques related to the pregnant, neonatal, pediatric and geriatric patient. (4.3.a,b,f, o; 4.4.b,c,d; 6.2.a,b,c)
3. Demonstrate knowledge of the specialized assessment techniques related to the psychiatric patient experiencing crisis and patients experiencing drug overdose. (4.3.p; 6.1.p)
4. Demonstrate ability to consider assessment findings and infer a differential diagnosis. (4.3.c-p)
5. Based on the interpretation of assessment findings and the differential diagnosis, demonstrate decision making skills and knowledge to provide care to a variety of clients across the lifespan. (4.4.b, c; 6.1.a-q; 6.2.a-e)
6. Provide basic care for soft tissue injuries. (5.6.a-e)
7. Demonstrate knowledge, clinical decision-making skills, and ability to provide care for patients experiencing a variety of medical conditions. (6.1.k,m,n; 6.2. b-e)
8. Demonstrate ability to distinguish between urgent and non-urgent illnesses and injuries and explain the approach to each patient (6.1.l)
9. Demonstrate an understanding and ability to justify approach, assessment, care, and transportation decisions related to patients experiencing traumatic injury. (5.7.a,b; 6.2.b,c,d,e; 6.l.o)
10. Demonstrate an understanding of relationship of mechanism of injury to patient condition and care provided. (6.1.a-n)
11. Demonstrate knowledge and ability to protect self and others from communicable disease transmission. (3.3.f-h)
12. Demonstrate knowledge and ability to protect self and others from exposure to environmental hazards (3.3.e; 6.1.n)
13. Demonstrate knowledge, clinical decision making skills, and understanding of how to triage multiple casualty situations and situations where there is only one patient. (4.1.a,b)

14. Demonstrate understanding of safety and knowledge specific to fixed wing and rotary wing aircraft specific to patient transportation. (7.3.a-c; 7.4.a-b)
15. Recognize stress indicators, coping strategies and an understanding of the Critical incident Stress Management System (CISM). (3.1c)
16. Demonstrate knowledge of specific illnesses, injuries and complications related to all body systems, across the lifespan. (4.3.c,d-p; 4.4.h)

Module Evaluation:

Four multiple choice exams (covers all material covered in the Essential 400 modules)
- ✓ One multiple choice exam worth 5%
- ✓ Second multiple choice exam worth 5%
- ✓ Third multiple choice exam worth 15%
- ✓ Final Exam (comprehensive) multiple choice worth 20%

All four Essentials exams are worth **45%** of the overall mark in PCP 400 course.

INTRODUCTION TO MEDICATIONS MODULE

Module Description:

The responsibility of administering medications requires a PCP to exercise skill, knowledge, and judgment. Focusing on patient safety, students will be introduced to the pharmacokinetics, pharmacotherapeutics, and safe administration techniques to each of the drugs for which a PCP is responsible for.

Module Outcomes (NOCP Competencies)

Upon completion of this module the student will be able to:

1. Demonstrate an understanding of the basic concepts related to the pharmacodynamic principles underlying drug action in the human body. (5.8a)
2. Demonstrate an understanding of the basic pharmacokinetic principles related to movement of drugs within the human body (5.8a, b, c, d, h, j, l)
3. Demonstrate an understanding of the classification, nature, properties, and effects of drugs. (5.5c, 5.8a, c, d, h, j, l)
4. Demonstrate an understanding of the role of the PCP in ethical drug administration (5.8 a-b)
5. Understand and perform safe medication administration (5.8a-d, 5.8.g,h,j,l)

Module Evaluation:

- ✓ One multiple choice final exam – worth 10%
- ✓ Integrated Assignment - worth 10%

The Medication module is worth **20%** of the overall mark in PCP 400 course.

LEGAL AND ETHICAL ISSUES MODULE

Module Description:

Understanding the legalities and the ethical issues that confront PCPs is a critical area of importance. Before practicing as a PCP, students need to consider how Canadian and Alberta legislation affects patient care. In this module, the learner will have an opportunity to relate legal and ethical issues to his/her future practice in EMS.

Module Outcomes: (NOCP Competencies)

Upon completion of this module the student will be able to:
1. Understand and undertake the role of a professional PCP (1.1a,b,c,d; 1.6c)
2. Understand and utilize provincial and federal legislation as it relates to practice. (1.1.e; 1.1.j; 1.3.a, b; 1.4.a)
3. Understand and implement appropriate scope of practice for an PCP (1.3.a,c; 1.6a,b)
4. Demonstrate knowledge of professional development activities and currency of practice (1.1.f; 1.1.h; 1.2.a,b,c)
5. Understand and discuss patient's rights and PCP responsibilities of patient advocacy (1.1.d; 1.1.k; 1.3.b; 5.8b)
6. Explain and demonstrate ethical behavior (1.1.e, 1.1.j; 1.6.a,b; 5.8b)
7. Work collaboratively and cooperatively with other members of the health care team (1.1g; 1.5a b,c,d; 1.6c)

Module Evaluation:

- ✓ Ethical Debate – worth 5%
- ✓ Legal & Ethical Integrated Assignment - 5%

Both are worth **10%** of the overall mark in PCP 400 course.

Module Resources:

The learner is to use resources found in and around their community. The resources will depend on the debate/research subject. Examples are:

- ✓ Internet
- ✓ Keyano College Library
- ✓ Community Library
- ✓ Family Community Support Services
- ✓ Public Health Office
- ✓ Moodle supplemental resources

Grading System

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

Students must receive and 80% or B+ to be successful in this course

Schedule

See the class schedule posted in Moodle for topics and dates.

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 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.

[Maddie, Dodge], Instructor	Date Authorized

[Candi, Muise], Chair	Date Authorized

[Arlene, Starkes], Dean	Date Authorized

Signed copies to be delivered to:
Instructor