



Undergraduate Medical Education (UME) Medical Doctor Program (MD) Course Outline

Land Acknowledgement
Territorial Land Acknowledgement https://www.ucalgary.ca/indigenous/cultural-teachings/territorial-land-acknowledgement

Course Number:	MDCN 522.01
Course Title:	Emergency Medicine Clerkship
Dates:	Jan 20, 2025 – Apr 26, 2026
Schedules and classroom locations:	The timetable is located here https://cumming.ucalgary.ca/mdprogram/current-students/pre-clerkship-year-1-2/timetable All information, including day to day detailed schedule with dates, times and locations of learning events, is located on the curriculum management system currently named OSLER. For clerkship: rotation schedule & location information will be emailed

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Course Description
University of Calgary calendar (https://calendar.ucalgary.ca/) https://calendar.ucalgary.ca/courses?cq=&career=Medicine%20Programs&page=1

Supplementary Fees/Costs
Medical School Costs https://cumming.ucalgary.ca/mdprogram/current-students/financial-aid/medical-school-costs Financial Planning and Support Links https://cumming.ucalgary.ca/mdprogram/future-students/financial-aid/financial-planning-and-support-links

Learning Resources
All learning resources will be found on Fresh Sheet and on the curriculum management system currently named OSLER.

Recommended texts/resources for Emergency Medicine:

- Ottawa Handbook of Emergency Medicine
https://emottawablog.com/sdm_downloads/ottawas-clerkship-guide-emergency-medicine/
- Toronto Notes
- Tintinalli's Emergency Medicine, 9th Edition
- Rosen's Emergency Medicine: Concepts and Clinical Practice, 10th Edition
- FOAMED options include: CanadiEM (canadiem.org), Emergency Medicine Cases (emergencymedicinecases.com), and ALiEM (aliem.com)

Learning Objectives

Clinical Objectives

The objectives below should guide your independent study. The content of the final summative exemption is guided by these objectives.

1. By the end of the Emergency Medicine clerkship rotation, the student will have proficiency with:
 - Obtaining an appropriate history with an emphasis on the history of presenting illness
 - Performing an appropriate physical examination relevant to the presenting complaint
2. By the end of the Emergency Medicine clerkship rotation, the student will be able to demonstrate an approach to, and provide a differential diagnosis for, a patient presenting with:
 - Chest pain
 - Dyspnea
 - Shock
 - Gastrointestinal bleeding
 - Abdominal pain
 - Pelvic pain (pregnant and non-pregnant)
 - Vaginal bleeding (pregnant and non-pregnant)
 - Scrotal pain
 - Altered mental status and neurologic deficits
 - Potential complications of trauma, including blunt, penetrating, burns and environmental
 - Head injury
 - Wound care
 - Musculoskeletal pain
 - Psychiatric complaints
 - Headache
 - Dizziness and vertigo
 - Fever/infection and sepsis
 - Syncope
 - Seizure
 - Electrolyte abnormalities
 - Toxicologic ingestion and complications of substance use
3. By the end of the Emergency Medicine clerkship rotation, the student will
 - Demonstrate a basic understanding of the emergent management of a compromised airway
 - Outline initial priorities and treatments for any critically ill/injured patient
 - Recognize that assessment and treatment of a patient may occur simultaneously
 - Distinguish seriously ill or injured patients from those with more minor conditions
4. By the end of the Emergency Medicine clerkship rotation, the student will demonstrate an approach to interpretation of the following tests:
 - Electrocardiogram
 - Pulse oximetry
 - Blood gases

- Radiographs

5. By the end of the Emergency Medicine clerkship rotation, the student will have gained proficiency with a variety of procedures by actively participating in their performance. These procedures may include but are not limited to:

- Intravenous line insertion
- Application of oxygen via nasal cannula or non-rebreather face mask
- Local anesthetic infiltration
- Suturing
- Fracture reduction
- Application of casts and splints
- Urinary catheterization
- Nasogastric tube insertion
- Lumbar puncture

6. By the end of the Emergency Medicine clerkship rotation, the student will be able to:

- Define the role of the Emergency Department in the health care system
- Define the role of triage in the simultaneous care of multiple patients
- Demonstrate effective, empathic communication with patients, families and other members of the health care team
- Demonstrate an awareness of the underlying psychosocial and socio-economic problems that may precipitate an ED visit
- Recognize his or her limitations and know when to ask for help

Please refer to core document on OSLER - <https://osler.ucalgary.ca/>

Evaluation and Course Requirements

EMERGENCY MEDICINE Class of 2026

- Formative MCQ (cards) = MC*
- 7 completed One45s for shifts worked = MC
- Satisfactory Final Rotation ITER = MP
- Observed History and Physical = MC#
- Attendance and participation in teaching sessions = MC#
- Nursing Block = MC #
- Logbook = MC*
- Clinical Expectations = MC
- Professionalism Expectation = MP
- Meet all expectations outlined in Core Document = MC

MP = must pass (failure to do so will result in overall evaluation of "Unsatisfactory" for rotation)

MC = must complete (failure to do so will result in overall evaluation of "Satisfactory with Performance Deficiency" for rotation)

MC* = must complete before rotation deadline (failure to do so will result in requirement to defer summative examination to the deferral/rewrite date)

UCLIC student meet all expectations listed for rotation-based clerks except those noted by

Please refer to Clerkship Student Handbook - <https://cumming.ucalgary.ca/mdprogram/current-students/clerkship/student-handbook> and core document on OSLER - <https://osler.ucalgary.ca/>

Grading	
The University of Calgary Medical Doctor Program is a Pass/Fail program. The grading system that will appear on a student's legal transcript is as follows:	
Grade	Description
CR	Completed Requirements
RM	Remedial Work Required
F	Fail
W	Withdrawal
MT	Multi-Term (Used for Part A Courses that fall under 2 different terms in the calendar year)
For Clerkship - A rotation signed off as "Satisfactory with Performance Deficiencies" will appear as a credit on a student's medical school transcript.	

One45 by Acuity Insights Overview
<p>The MD Program utilizes the One45 Software Program for assessment purposes for all evaluations in Year 1, 2 and 3. Students are able to view completed evaluations online through this software program. Evaluations and assessment data are collected at regular intervals.</p> <p>It is the student's responsibility to distribute their evaluations to preceptors and to follow up with preceptors if evaluations have not been completed by the deadline given out by the Undergraduate Medical Education (UME) Office.</p> <p>In addition to assessments and evaluations, One45 is also utilized to evaluate your preceptors and to gather information from students on their learning experiences.</p> <p>All students are provided training at the beginning of their program in Year 1. This would include a personal log in access code and password.</p> <p>One45 by Acuity Insights is used throughout your training in the MD Program (Undergrad). Website Link to Access One45 by Acuity Insights: https://calgary.one45.com/</p>

Course Evaluation/Feedback
<p>Student feedback will be sought at the end of each learning session as well as at the end of each course through the electronic UME evaluation tool.</p> <p>At the end of each learning activity (ie. Lecture, small group, orientations, etc.), students will be asked to complete online evaluation forms to provide feedback to instructors regarding the effectiveness of their teaching and achievement of the learning objectives. An overall course evaluation will be completed following course completion.</p> <p>Students are welcome to discuss the process and content of the course at any time with the Course Chairs or Preceptors.</p>

Internet and Electronic Device Information and Responsible Use
<p>Students are welcome to use laptops and other electronic note-taking devices in this course unless otherwise stated. Please be considerate of others when using these devices.</p> <p>The use of laptop and mobile devices is acceptable when used in a manner appropriate to the course and classroom activities. Please refrain from accessing websites and resources that may be distracting to you or for</p>

other learners during class time. Students are responsible for being aware of the University's Internet and email use policy
<https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-electronic-resources-and-information-policy>

Professional Conduct

Students, employees, and academic staff are also expected to demonstrate behaviour in class that promotes and maintains a positive and productive learning environment. As members of the University community, students, employees, and academic staff are expected to demonstrate conduct that is consistent with the University of Calgary Calendar, the Code of Conduct and Non-Academic Misconduct policy and procedures, which can be found at: <https://calendar.ucalgary.ca/uofcregs/university-regulations/integrity-conduct>

Students and staff are expected to model behaviour in class that is consistent with our professional values and ethics to promote and maintain a positive and productive learning environment. All students and staff are also expected to respect, appreciate, and encourage expression of diverse world views and perspectives. While critical thought and debate is valued in response to concepts and opinions shared in class, feedback must, at all times, be focused on the ideas or opinions shared and not on the person who has stated them.

Where a breach of an above-mentioned expectation occurs in class, the incident should be reported immediately to the Associate Dean or his/her designate. As stated in the University Calendar, students who seriously breach these guidelines may be subject to a range of penalties ranging from receiving a failing grade in an assignment to expulsion from the University.

University of Calgary Medical School – Student Code of Conduct

<https://cumming.ucalgary.ca/mdprogram/current-students/pre-clerkship-year-1-2/student-code-conduct>

University of Calgary - Integrity and Conduct

<https://calendar.ucalgary.ca/uofcregs/university-regulations/integrity-conduct>

Attendance and Participation Expectations

All learning events are mandatory. Attendance will be taken.

Reappraisals and Appeals

Please refer to the CSM Reappraisal of Graded Term Work and Academic Assessments and CSM UME Academic Assessment and Graded Term Work Procedures for details regarding reappraisals and appeals

<https://cumming.ucalgary.ca/mdprogram/about/governance/policies#c>

Please note by policy and terms of reference if the student plan to request a reappraisal of the result(s) of this exam/course, a formal reappraisal request in writing needs to be submitted to the Chair of Student Evaluation within 10 business days of receiving the result. Please refer to the CSM Reappraisal of Graded Term Work and Academic Assessments for further information.

<https://cumming.ucalgary.ca/mdprogram/about/governance/policies> (under C). When a reappraisal has been submitted, any scheduled rewrite exams for that course will be on hold, depending on the outcome of the Reappraisal. Unless, under extenuating circumstances, and at the request of the student an early rewrite may be granted, if approved by the appropriate Assistant or Associate Dean.

Chair of Student Evaluation

Email - md.reappraisals@ucalgary.ca

Please complete the CSM Reappraisal Submission Form on the UME website to ensure all information has been included. (<https://cumming.ucalgary.ca/mdprogram/about/governance/policies>) – (under C)

If the student disagrees with the decision of the UME Student Evaluation Committee, the student may appeal that decision to the UME University Faculty Appeals Committee.

Academic Accommodation

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The Student Accommodations policy is available at <https://ucalgary.ca/student-services/access/prospective-students/academic-accommodations>.

Students needing an accommodation because of a disability, or medical concerns should communicate this need to Student Accessibility Services (SAS) in accordance with the Procedure for Accommodations for Students with Disabilities <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-accommodation-policy>.

For Student Accessibility Services, please contact the office at (403) 210-6019, visit: MacEwan Student Centre room 452, or email: access@ucalgary.ca. Students who have not registered with the Student Accessibility Services are not eligible for formal academic accommodation.

Students who require an accommodation in relation to their coursework or to fulfil requirements for a graduate degree based on a protected ground other than disability should communicate this need, preferably in writing, to the appropriate Assistant or Associate Dean

Students who require an accommodation unrelated to their coursework, based on a protected ground other than disability, should communicate this need, preferably in writing, to the Vice-Provost (Student Experience).

For additional information on support services and accommodations for students with disabilities, visit <https://live-ucalgary.ucalgary.ca/student-services/access>

Academic Integrity

The University of Calgary is committed to the highest standards of academic integrity and honesty. Academic integrity is a core value of the University of Calgary. At UCalgary, academic integrity is a commitment to, and the demonstration of, honest and responsible scholarship. Maintaining academic integrity while earning your degree represents your true academic accomplishments. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect.

Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity.

Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional code of conduct and promote academic integrity in upholding the University of Calgary's reputation of excellence.

Student Academic Misconduct Policy and Procedure:

<https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-policy>

<https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-procedure>

Additional information is available on the Academic Integrity Website at <https://ucalgary.ca/student-services/student-success/learning/academic-integrity>

Use of Artificial Intelligence Tools

Generative Artificial Intelligence (AI), and specifically foundational models that can create writing, computer code, and /or images using minimal human prompting includes not only GPT-4 (and its siblings ChatGPT and Bing), but many writing assistants that are built on this or similar AI technologies.

In the MD program, learners may use artificial intelligence tools, including generative AI, as learning aids or to help produce assignments. Learners are ultimately accountable for the work they submit. Use of AI tools must be documented in an appendix for each assignment. The documentation should include what tool(s) were used, how they were used, and how the results from the AI were incorporated into the submitted work. Failure to cite the use of AI generated content in an assignment/assessment will be considered a breach of academic integrity and subject to Academic Misconduct procedures.

Academic Misconduct

Academic Misconduct refers to student behavior which compromises proper assessment of a student's academic activities and includes cheating; fabrication; falsification; plagiarism; unauthorized assistance; failure to comply with an instructor's expectations regarding conduct required of students completing academic assessments in their courses; and failure to comply with exam regulations applied by the Registrar.

For information on the Student Academic Misconduct Policy and Procedure please visit:

<https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-policy>
<https://www.ucalgary.ca/legal-services/university-policies-procedures/student-academic-misconduct-procedure>

Additional information is available on the Academic Integrity Website at:

<https://ucalgary.ca/student-services/student-success/learning/academic-integrity>

Research Ethics

If a student is interested in undertaking an assignment that will involve collecting information from members of the public, he or she must speak with the Assistant Dean, Research (UME) and consult the CHREB ethics website (<https://ucalgary.ca/research/researchers/ethics-compliance/chreb>) before beginning the assignment.

Students are advised that any research with human participants – including any interviewing (even with friends and family), opinion polling, or unobtrusive observation – must have the approval of the Conjoint Faculties Research Ethics Board (<https://research.ucalgary.ca/conduct-research/ethics-compliance/human-research-ethics/conjoint-faculties-research-ethics-board-cfreb>) or the Conjoint Health Research Ethics Board (<https://research.ucalgary.ca/conduct-research/ethics-compliance/human-research-ethics/conjoint-health-research-ethics-board-chreb>)

For further information see E.5 Ethics of Human Studies:

<https://calendar.ucalgary.ca/pages/627ed88eb4b041b7a2e8155effac3501>

For more information on ethics and compliance visit:

<https://research.ucalgary.ca/conduct-research/ethics-compliance>

Intellectual Property

Course materials created by instructors (including presentations and posted notes, labs, case studies, assignments and exams) remain the intellectual property of the instructor. These materials may NOT be reproduced, redistributed or copied without the explicit consent of the instructor. The posting of course materials to third party websites such as note-sharing sites without permission is prohibited. Sharing of extracts

of these course materials with other students enrolled in the course at the same time may be allowed under fair dealing.

Emergency Evacuations and Assembly Points

Assembly points for emergencies have been identified across campus. The primary assembly point for the Health Sciences Centre (HSC) building is HRIC - Atrium. For more information, see the University of Calgary's Emergency Management website: <https://www.ucalgary.ca/risk/emergency-management/evac-drills-assembly-points/assembly-points>

In the case of an emergency during exam, immediately stop writing the examination and follow the direction of the invigilator and go to the nearest exit. Students should not gather personal belongings. Emergency Evacuation Procedures - <https://www.ucalgary.ca/risk/emergency-management/plans-and-procedures>.

Supports for Students

Student Advocacy and Wellness Hub (SAWH): <https://cumming.ucalgary.ca/mdprogram/current-students/student-advising-wellness>

AMA Physician and Family Support Program: <https://www.albertadoctors.org/services/physicians/pfsp>

Student Wellness Services: <https://www.ucalgary.ca/wellness-services>

Safewalk: <http://www.ucalgary.ca/security/safewalk>

Campus security: call (403) 220-5333

Student Success Centre: <https://ucalgary.ca/student-services/student-success>

Libraries and Cultural Resources: <http://library.ucalgary.ca/>

Student Union: <https://www.su.ucalgary.ca/about/who-we-are/elected-officials/>

Graduate Student's Association: <https://gsa.ucalgary.ca/about-the-gsa/gsa-executive-board/>

Student Ombudsman: <http://www.ucalgary.ca/ombuds/role>

Wellness and Mental Health Resources

The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness, and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the excellent mental health resources available throughout the University community such as counselling, self-help resources, peer support, or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, <https://www.ucalgary.ca/wellnesscentre/services/mental-health-services>) and the Campus Mental Health Strategy website (<http://www.ucalgary.ca/mentalhealth>).

Freedom of Information and Protection of Privacy

Student information will be collected in accordance with typical (or usual) classroom practice. Students' assignments will be accessible only by the authorized course faculty. Private information related to the individual student is treated with the utmost regard by the faculty at the University of Calgary. For more information, please see: <https://www.ucalgary.ca/hr/work-compensation/working-ucalgary/freedom-information-and-privacy-act>

Copyright Legislation

All students are required to read the University of Calgary policy on Acceptable Use of Material Protected by Copyright (<https://www.ucalgary.ca/legal-services/university-policies-procedures/acceptable-use-material-protected-copyright-policy>) and requirements of the copyright act (<https://laws-lois.justice.gc.ca/eng/acts/C->

[42/index.html](#)) to ensure they are aware of the consequences of unauthorized sharing of course materials (including instructor notes, electronic versions of textbooks, etc.) Students who use material protected by copyright in violation of this policy may be disciplined under the Non-Academic Misconduct Policy <https://www.ucalgary.ca/legal-services/university-policies-procedures/student-non-academic-misconduct-policy>.

Sexual and Gender-Based Violence Policy

The University recognizes that all members of the University Community should be able to learn, work, teach and live in an environment where they are free from harassment, discrimination, and violence. The University of Calgary's sexual violence policy guides us in how we respond to incidents of sexual violence, including supports available to those who have experienced or witnessed sexual violence, or those who are alleged to have committed sexual violence. It provides clear response procedures and timelines, defines complex concepts, and addresses incidents that occur off-campus in certain circumstances. Please see the policy available at <https://www.ucalgary.ca/legal-services/university-policies-procedures/sexual-and-gender-based-violence-policy>

ATSSL Guidelines

Please refer to the ATSSL Web Lab PPE Requirement:
<https://cumming.ucalgary.ca/mdprogram/about/governance/policies>

UME Policies, Guidelines and Terms of References (TORs)

Please refer to the MD program website:
<https://cumming.ucalgary.ca/mdprogram/about/governance>

UME Forms

Please refer to the MD program website:
<https://cumming.ucalgary.ca/mdprogram/current-students/student-resources/student-forms>