



Selective Clinical Rotations

MEDC 408.8

Year 4 (Terms 1 and 2)

 **COURSE SYLLABUS**
2022-2023 (CLASS OF 2023)



UNIVERSITY OF SASKATCHEWAN
College of Medicine
MEDICINE.USASK.CA

ACKNOWLEDGEMENT

As we engage in teaching and learning, we acknowledge we are on Treaty Six and Treaty Four Territory and the Homeland of the Métis. We pay our respect to the First Nation and Métis ancestors of this place and reaffirm our relationship with one another. We recognize that in the course of your studies you will spend time learning in other traditional territories and Métis homelands. We wish you safe, productive and respectful encounters in these places.

SELECTIVE CLINICAL ROTATIONS – COURSE OVERVIEW

The Covid-19 pandemic has caused significant changes to delivery of medical curriculum. We are planning to include in-person educational experiences, where possible, during the 2022-23 Fall Term. However, due to pandemic circumstances, the College of Medicine undergraduate education program may need to:

- *Modify curriculum content delivery outside of usual procedures and at short notice.*
- *Modify Course assessments which may need to be changed to a different format, or to have different weighting from that outlined in the syllabus.*

As information becomes available, we will provide updates to students on any changes relating to content originally outlined in the syllabus.

If you are on campus at any time, ensure you know what is required and expected of you: One of the critical lessons learned in dealing with COVID-19 is knowing that situations can change and we must be flexible and ready to adjust our safety protocols. Instead of listing all of the relevant information in your course outline, the university has created [a webpage](#) where all up-to-date information around returning to campus is listed. You are responsible for regularly checking the health and safety guidelines <https://covid19.usask.ca/about/safety.php#Expectations> and knowing what is expected of you throughout the fall term. The College of Medicine has specific COVID protocols that are also important for you to be aware of and follow on the [College of Medicine website](#). COVID Pandemic policy wording will be updated as required.

COURSE DESCRIPTION

This course is designed to allow medical students to pursue their own interests in the areas of internal medicine and surgery in keeping with their individual goals. The Selective Clinical Rotations course is a four-week course in which the student will select to study subspecialties in both Internal Medicine and Surgery. The student will choose one surgical subspecialty over a two-week period, and one medical subspecialties over a two-week period comprising the full four weeks.

Completion of this course will contribute to attaining elements of the overall undergraduate program objectives ([Program Learning Objectives](#)).

OVERALL COURSE OBJECTIVES

By the completion of this course, students will be expected to:

1. Recognize the role of the sub-specialist surgeon/internist in the delivery of healthcare to the population.
2. Demonstrate professional behavior through punctuality, appropriate attire, and respectful attitudes to patients, families, and other health care providers.
3. Recognize and advocate for addressing the needs of patients, families, communities, and populations in all areas that affect health and well-being.

4. Perform a patient-centered history and physical examination that pertains to the patient’s presenting problem.
5. Develop initial working diagnostic hypotheses based upon history and physical examination findings.
6. Select and interpret appropriate and resource-conscious diagnostic tests, including laboratory, imaging, electrophysiologic and other modalities, to complement your clinical diagnosis.
7. Integrate clinical information to arrive at a working diagnosis to guide patient care.
8. Develop an initial management plan with the patient addressing their presenting problem, including pharmaceutical, non-pharmaceutical and surgical approaches.
9. Discuss primary and secondary strategies to prevent the development of illness and disease.
10. Work in and appreciate the role of intra/inter-professional teams, by collaborating together on improving patient care, including through effective consultation.
11. Perform procedural skills appropriate for the subspecialty (see objectives of each sub-specialty rotation for detailed objectives).
12. Develop effective communication skills to include maintaining clear, accurate, and appropriate records of clinical encounters and/or communicating in a language easily understood by patients and family members.

Information on literal descriptors for grading in the College of Medicine at the University of Saskatchewan can be found in the [Pre-Clerkship Student Information Guide](#) – Student Assessment Section

More information on the Academic Courses Policy on course delivery, examinations and assessment of student learning can be found at: <http://policies.usask.ca/policies/academic-affairs/academic-courses.php> NOTE: The College of Medicine a specific policies and procedures for course delivery, exams and assessment that can found on the [Policies, Procedures and Forms](#) page of the College of Medicine website.

The University of Saskatchewan Learning Charter is intended to define aspirations about the learning experience that the University aims to provide, and the roles to be played in realizing these aspirations by students, instructors and the institution. A copy of the Learning Charter can be found at: www.usask.ca/university_secretary/LearningCharter.pdf

COURSE CONTACTS

SASKATOON SITE

Nassrein Hussein(Course Director)
 Email: Nassrein.hussein@usask.ca
 Phone:

Angela Kuffner (Rotation Administrator)
 Email: angela.kuffner@usask.ca
 Phone: (306) 844-1153
 Fax: (306) 844-1525

MEDICINE MODULE

SASKATOON SITE

Nassrein Hussein
 Email: Nassrein.hussein@usask.ca
 Phone:

Angela Kuffner (Rotation Administrator)
 Email: angela.kuffner@usask.ca
 Phone: (306) 844-1153

REGINA SITE

Dr. Liz Gibbings (Course Chair)
 Email: lgibbings40@gmail.com
 Phone: (306) 766-3703

Alexandra Strauss (Rotation Administrator)
 Email: alexandra.strauss@saskhealthauthority.ca
 Phone: (306) 766-3772

SURGERY MODULE

SASKATOON SITE

Dr. Trustin Domes

Email: trustin.domes@usask.ca

Erin Cook (Rotation Administrator)

Email: surgery.clerkship@usask.ca

Phone: (306) 966-5678

REGINA SITE

Dr. Taylor Bereti

Email: taylor.bereti@gmail.com

Alexandra Strauss (Rotation Administrator)

Email: Alexandra.strauss@saskhealthauthority.ca

Phone: 306-766-3772

COURSE SCHEDULE

This course is a 4-week rotation consisting of 2 weeks of a medicine subspecialty and 2 weeks of a surgery subspecialty.

Each rotation must be of a minimum of 2 weeks in duration.

All learning objectives (course, module, and session) can be accessed on the College of Medicine/Curriculum website under the appropriate year and course. A print version is also available. Please access the most current objectives through the link below:

<https://share.usask.ca/medicine/one45/kbase/Curriculum.aspx>

INDEPENDENT LEARNING (IF APPLICABLE)

Please note, students are encouraged and expected to enhance and expand their knowledge of selective rotation objectives through self-directed learning, consistent with Pre-Clerkship Self-Directed Learning activity. This can be done through an identification, analysis and synthesis of credible information sources, a sharing of knowledge with peers and/or instructors, an application of new knowledge within the selective rotations, and seeking out feedback from their peers and instructors regarding their new knowledge and skills.

COURSE DELIVERY

Students will learn through a variety of methods including:

- Interactive small group learning sessions
- Independent self-directed reading and exercises
- In-patient and out-patient exposure

COURSE MATERIAL ACCESS

Course information will be posted to one45.

RECOMMENDED MEDICAL INSTRUMENTS (IF APPLICABLE)

A stethoscope is required. The hospitals provide examining kits consisting of ophthalmoscope/otoscope and reflex hammer on most wards (the quality and availability of these is variable).

PPE (Personal Protective Equipment) is strongly encouraged and available in most patient areas. This is not limited to standard precautions which are the basic level of infection control which should be used for all patients all of the time.

RESOURCES

A general medical text should be consulted for reference in reading around patient problems, such as:

Longo, Dan et al. *Harrison's Principles of Internal Medicine*. 18th ed. New York: McGraw-Hill Education, 2011. Lee Goldman and Andrew I. Schafer. *Goldman-Cecil Medicine*. 25th ed. Philadelphia: Saunders, 2015.

The following textbooks are resources for the surgical disciplines:

Lawrence PF: *Essentials of General Surgery and Surgical Specialties* (5th ed.). Baltimore, MD: Lippincott Williams & Wilkins, 2018.

Townsend CM and Beauchamp RD, Evers BM, Mattox KL: *Sabiston Textbook of Surgery: The Biological Basis of Modern Surgical Practice* (21st Ed.). Philadelphia, PA, Elsevier, 2012

Undergraduate Diagnostic Imaging Fundamentals E-Book

The Undergraduate Diagnostic Imaging Fundamentals, by Dr. Brent Burbridge (MD, FRCPC) is an e-book resource to augment the presentation for imaging of common clinical conditions. Guiding principles related to minimizing radiation exposure, requesting appropriate imaging, and static images are enhanced and discussed. Additionally, users can access other imaging from the Dicom viewer (ODIN) to further advance their experience with viewing diagnostic imaging pathologies.

<https://openpress.usask.ca/undergradimaging/>

COURSE ASSESSMENT OVERVIEW

Each of the 2-week rotations will have the following assessment components:

1. Clinical performance as measured by clinical assessments (ITARs) filled out by attending physicians at the end of each medicine and surgery two week rotation. The following criteria are required to pass.
 - A grade of 70% or greater for each medicine and surgery rotation.
 - A minimum of "Meets Expectations" in each individual ITAR.
 - Assessments of professionalism must be at a minimum "Meets Expectations" for all assessments.
2. Adequate completion of EPAs #1-12, in accordance with Year 4 expectations (see EPA section below).

At the end of the rotation students must have at least 2 ITARs (one for the medicine selective and the other for the surgery selective)

Each 2-week rotation mark will be calculated as follows:

Assessment Type	Weight
1. Clinical Assessment (ITAR)	100%
2. EPA #1 through #12	Formative
Total	100%

Final grade will be determined by the average of each of the 2-week rotation marks.

ENTRUSTABLE PROFESSIONAL ACTIVITIES (EPAs)

Please note that the EPA requirement is for the entirety of Year 4 and includes both the Electives and Selectives courses.

For the 2022/2023 academic year, all fourth year Clerks will be required to complete the following:
A minimum of 3 EPA observations in each of category 1-6 and a minimum of 2 EPA observations in each of category 7-12. It is the responsibility of the student to have their EPA observations completed and assessed. Discussing your EPA plan with your elective/selective supervisor early helps ensure that your plan will be successfully completed by the end of each elective/selective.

Completion of EPAs is a valuable opportunity to get formative feedback on your clinical performance and demonstrate your clinical competency. Students are strongly encouraged to achieve more than the minimum number of EPAs to help guide their continued learning and demonstrate competency. Additionally, based on your interim EPA performance, the competency committee may require Clerks to complete additional EPAs in different categories if there are concerns about competencies not being met.

EPA 1: Obtain a history and perform a physical examination adapted to the patient's clinical situation

EPA 2: Formulate and justify a prioritized differential diagnosis

EPA 3: Formulate an initial investigative plan based on the diagnostic hypothesis

EPA 4: Interpret and communicate results of common diagnostic and screening tests

EPA 5: Formulate, communicate and implement management plans

EPA 6: Present oral and written reports that document a clinical encounter

EPA 7: Provide and receive the handover in transitions of care

EPA 8: Recognize a patient requiring urgent or emergent care, provide initial management and seek help

EPA 9: Communicate in difficult situations

EPA 10: Contribute to a culture of safety and improvement

EPA 11: Perform general procedures of a physician

EPA 12: Educate patients on disease management, health promotion and preventive medicine

It is up to the student to determine which EPAs are most achievable during each of their clinical experiences, however, there should be a minimum of 10 EPAs completed by the end of each 2-month interval. The student should formulate a plan which EPAs to achieve in each elective/selective. This plan should be submitted to your Year 4 Site Director for approval 2 months prior to the start of electives/selectives.

Completion of all EPAs is mandatory and is a requirement to successfully complete Year 4 and graduate medical school. Failure to complete the required number of EPAs, at a level that is satisfactory to the competency committee, will have academic and/or professionalism consequences, including being ineligible for graduation. Further, if students are found to be missing EPAs, additional clinical time may be required to complete missing EPAs or demonstrate an acceptable level of entrustability.

Please note that comments from the EPAs may be included on the MSPR.

Process:

If the elective/selective is completed in Saskatchewan and the faculty is not a user of the app, the faculty can fill it out under the student, or via "Electives" or "Selectives" with the student's app. If it is for an out-of-province elective, it is expected that the student will have the faculty fill them out on the student's EPA app, choosing the appropriate elective to put it under, and having the faculty write their name and email in the narrative.

EXAM PROCTORING

Due to pandemic related circumstances, examinations during this course may be delivered remotely. In that event, proctoring software or other remote invigilation methods will be employed concurrently during the examination to ensure academic integrity of the assessment.

COURSE POLICY FOR SUCCESSFUL COMPLETION AND REMEDIATION

In order to successfully complete this course for the purposes of promotion, a student must achieve:

- Within each 2-week rotation, 70% or greater on the ITARs,
- EPA entrustability

Students not promoted on the basis of failing this course will receive an “F” on their transcript for the relevant course.

REMEDIATION

Students who do not achieve the minimum standard in any of the two separate selective rotations will be required to meet with the Course Director to develop a remediation plan including supplemental assessment and more clinical time to meet clinical expectations. The Course Director, along with Student Academic Support person, will determine the specific type of remediation needed for each individual student. Students who successfully remediate will receive a 70% in that 2-week rotation. Students who are not successful after remediation will receive a fail for the course.

The implications of failing to successfully complete the course will be adjudicated at the Year 4 Promotions Committee and a final decision on academic outcomes will be determined by the Student Academic Management Committee.

An Informal Discussion Form for Professionalism may be submitted if EPA observations are not complete, and additional clinical time may be required.

ATTENDANCE EXPECTATIONS

Vacation/Education Leave: Vacation is not permitted on this rotation. Education leave may be allowed with permission from the College of Medicine and the course director. This will be assessed on a case-by-case basis. Appropriate documentation of the educational session being attended will be required.

COURSE EVALUATIONS QUALITY IMPROVEMENT

The following changes reflect course quality review recommendations and student feedback:

- We have incorporated additional selective options including Addictions Medicine.
- We have replaced the observed History and Physical assignment with EPA assessments.

IMPORTANT GUIDELINES FOR THIS TRANSITION TERM

During this transition term it is important that we undertake in-person elements of this class safely. In order to do this the university has developed a set of expectations and safety protocols that all students must adhere to if they are to engage in in-person activity.

Throughout the term:

- **Protect the pack:** Right now, the impact of student choices and activities when not on campus cannot be separated from time spent on campus. In order to “protect the pack”, the university is asking all students who are doing in-person work to be mindful and do whatever possible to lower the risk that you will contract COVID-19 and bring it onto campus.
- **Know what is required and expected of you:** One of the critical lessons learned in dealing with COVID-19 is knowing that situations can change and we must be flexible and ready to adjust our safety protocols. Instead of listing all of the relevant information in your course outline, the university has created [a webpage](#) where all up-to-date information around returning to campus is listed. **You are responsible** for **regularly** checking the health and safety guidelines <https://covid19.usask.ca/about/safety.php#Expectations> and knowing what is expected of you throughout the fall term.
- **Follow all guidance:** Students are expected to follow all guidance provided by the University’s Pandemic Recovery/Response Team (PRT), College/Department, professors, lab instructors, TAs, and any other staff member involved in the in-person academic program activities (e.g., Protective Services, Safety Resources).
- **Key channels of communication:** If there is a need for the class to pause meeting in-person for a period of time you will be notified. If this occurs, you will be provided with detailed information on what you will need to do in place of the in-person class sessions (e.g., read content posted in Canvas, complete learning activities in Canvas).

COURSE MODULE

1. Surgical Module
 - a. Subspecialties offered include:
 - i. Cardiovascular Surgery
 - ii. Otolaryngology and head and Neck Surgery (ENT)
 - iii. Neurosurgery
 - iv. Pediatric Surgery
 - v. Plastic Surgery
 - vi. Thoracic Surgery
 - vii. Urology
 - viii. Vascular Surgery

2. Medicine Module
 - a. Subspecialties offered include:
 - ix. Addictions Medicine
 - x. Cardiology
 - xi. Dermatology
 - xii. Endocrinology
 - xiii. Gastroenterology
 - xiv. Geriatrics*
 - xv. Hematology
 - xvi. Infectious Disease
 - xvii. Nephrology
 - xviii. Neurology
 - xix. Occupational Health & Safety*
 - xx. Oncology
 - xxi. Physical Medicine & Rehabilitation
 - xxii. Respiriology
 - xxiii. Rheumatology

Students who are interested in subspecialties not listed above may be granted approval by the course director. This will be assessed on a case by case basis at both sites. Students will be required to submit objectives for this rotation to the course director prior to approval and obtain confirmation of preceptor(s) availability from the specific division UG lead.

***Geriatrics and Occupational Health and Safety are not offered in Regina**

MODULE OBJECTIVES

SPECIFIC SUBSPECIALITY SURGERY OBJECTIVES

CV Surgery

1. Perform a focused patient-centered history and physical examination in a patient with cardiovascular disease (specifically coronary artery disease, valvular diseases and heart conduction abnormalities)
2. List the indications and investigative tools to evaluate cardiovascular disease.
3. Appreciate the role of medical and physical supports for circulation, including: inotropes, vasopressors, afterload reducers, intra-aortic balloon pumping (IABP), and ventricular assist devices (VAD).
4. Recognize early and intermediate complications of cardiac procedures.
5. Discuss the indications for and expected benefits of surgical management of cardiovascular disease, including cardiac device implantation (pacemakers/ICD's), and the pertinent ethical consideration thereof

ENT

Core ENT Presentations: Ear Pain, Hearing Loss, Tinnitus, Otorrhea, Vertigo, Nasal Obstruction, Rhinorrhea, Sore Throat, Oropharyngeal Dysphagia, Hoarseness, Neck Mass, Mouth Lesion

1. Perform a focused patient-centered history on a patient with a core ENT presentation.
2. Perform a focused physical examination on a patient with a core ENT presentation, including demonstrating the skills of otoscopy, tuning fork hearing testing, nasal exam, throat tongue depressor exam and neck palpation.
3. Generate a differential diagnosis in a patient with a core ENT presentation.
4. Based on the differential, determine initial management, including ordering of appropriate investigations.
5. Discuss the epidemiology, risk factors, primary and secondary prevention strategies, key symptomatic findings, initial investigations (including appropriate staging studies), and treatment options for patients presenting with head and neck cancers.
6. Appreciate the role of community resources available for patients presenting with ENT problems, including audiologists, speech language pathologists and vestibular rehabilitation therapists.
7. Demonstrate the proper technique for nasal packing in epistaxis.

Neurosurgery

Core Neurosurgical Presentations/Conditions: Altered Level of Consciousness, Low Back Pain, Brain Mass.

1. Perform a focused, patient-centered history and physical examination on a neurosurgery patient.
2. Discuss the clinical presentation and management of common neurosurgical conditions, such as traumatic brain injury (subdural hematoma, epidural hematoma, subarachnoid hemorrhage, diffuse axonal injury), low back pain, cauda equina syndrome, cerebral aneurysm, brain tumors and hydrocephalus.
3. Describe the mechanism of action of the following drugs commonly used in neurosurgery: Mannitol, Dilantin, Decadron.
4. Recognize basic imaging patterns seen on x-ray, CT, and MRI that aid in the diagnosis of a patient with a neurosurgical problem.
5. Generate a differential diagnosis on a patient presenting with a core neurosurgical presentation.
6. Based on the differential, determine initial management, including ordering of appropriate investigations.

Plastic Surgery

1. Perform a focused, patient-centered history and physical examination (including detailed hand and face examination) on a plastic surgery patient.
2. Discuss the processes that occur during each phase of wound healing.
3. Describe the different options available for wound closure.
4. Discuss common hand disorders and basic treatment approaches to these disorders (including carpal tunnel syndrome, trigger finger, common hand fractures, common soft tissue injuries of the hand (tendons, ligaments etc), hand infections and common hand tumours.
5. Apply a splint on the hand.
6. Identify common facial fractures on clinical examination and imaging modalities.
7. Discuss the initial assessment and management of a patient presenting with a burn (thermal, electrical, chemical).
8. Identify the features of common skin malignancies (basal cell carcinoma, squamous cell carcinoma, melanoma) and premalignant skin lesions (actinic keratosis).
9. List options for breast reconstruction following mastectomy.

Pediatric Surgery

Core Pediatric Surgery Presentations/Conditions: Incarcerated Inguinal Hernia in the Neonate, Aspirated and Ingested Foreign Bodies, Acute Abdomen in the Neonate or Infant or Older Child, Acute Gastrointestinal Bleeding, Blunt Abdominal and Thoracic Trauma, Scrotal Pain and Mass, Bilious and Non-Bilious Vomiting

1. Demonstrate the unique communication skills necessary to obtain thorough, focused pediatric histories from children, parents or other caregivers.
2. Perform a focused physical examination in a pediatric surgery patient, including employing strategies used to elicit key physical signs despite potential poor compliance.
3. Discuss the unique natural history of surgical diseases in children.
4. Discuss the heat regulation problems in infants and the need for careful environmental control during evaluation and management.
5. Recognize the need to individualize drug dosage and fluid administration on the basis of weight, and be able to calculate expediently fluid and electrolyte requirements using standard formulas.
6. Recognize and accommodate for the altered physiological systems (such as immature hepatic and renal function) that affect drug and anesthetic administration.
7. Provide a differential diagnosis for each of the core pediatric surgery presentations.
8. Construct an initial management plan for the core pediatric presentation, recognizing that while ideally managed in a special pediatric facility, management may need to be provided elsewhere based on urgency or distance.
9. List and initiate treatment common post-operative complications in children.
10. Apply pediatric trauma principles in the initial resuscitation and management of traumatized children.
11. Recognize the unique emotional and ethical issues surrounding the care of a sick child and the need to involve parents, children's advocates and other health care-givers in these situations.

Urology

Core Urological Presentations: Acute Testicular Pain (including testicular torsion), Testicular Mass and/or Swelling (including testicular cancer), Microscopic and Gross Hematuria, Urinary Retention, Urinary Incontinence, Lower Urinary Tract Symptoms (LUTS) (including benign prostatic hyperplasia), Acute Flank Pain (including renal colic), Male Sexual Dysfunction

1. Perform a focused patient-centered history and physical examination in a patient with a core urological presentation.
2. Generate a differential diagnosis in a patient with a core urological presentation.
3. Based on the differential, determine initial management, including ordering of appropriate investigations.

4. Discuss the epidemiology, risk factors, key symptomatic findings, initial investigation (including appropriate staging studies), and treatment options for patients presenting with cancer of the prostate, bladder and kidney.
5. List the indications and potential complications of urethral catheterization.
6. Perform a male and female urethral catheterization using proper technique.
7. Identify the important landmarks on a KUB (Kidney/Ureter/Bladder) x-ray, including recognizing the presence of calculi.

Thoracic Surgery

Core Thoracic Surgery Presentations/Conditions: Solitary Pulmonary Nodule, Pleural Effusion, Dysphagia

1. Perform a focused patient-centered history and physical on a patient with a core thoracic surgery presentation/condition.
2. Discuss the investigations required for a patient presenting with a core thoracic surgery presentation/condition.
3. Generate a differential diagnosis for the thoracic surgery core presentations/conditions.
4. Formulate a management plan for patients presenting with a core thoracic surgery presentation/condition.
5. Describe key features of the history, physical and cardiorespiratory testing when assessing a patient's suitability for pulmonary resection.
6. Discuss the important elements of lung cancer and esophageal cancer staging, treatment and prognosis.
7. Discuss the differences between an exudative and transudative effusion and list examples of each.
8. Participate in common thoracic surgical procedures and post-operative care.
9. Observe proper technique for chest tube insertion.
10. Discuss gastroesophageal reflux disease, its management and the clinical importance of Barrett's esophagus.
11. Discuss the various types of hiatus hernia and their management.
12. Interpret a chest x-ray and CT chest image.

Vascular Surgery

Core Vascular Surgery Presentations/Conditions: Known aortic aneurysmal disease, peripheral arterial occlusive disease, acute limb ischemia, varicose veins and diabetic foot.

1. Perform a focused patient-centered history on a patient presenting with a core vascular surgery presentation/condition.

2. Perform a focused physical examination on a vascular surgery patient, including the assessment of pulses and the circulation with the ankle-brachial index and hand held Doppler device.
3. Discuss the key symptomatic findings and initial investigations and management for patients presenting with a core vascular surgery presentation/condition.
4. Review the anatomy of the arterial and superficial and deep venous system of the lower extremity.
5. Discuss the pathophysiology of superficial venous hypertension.
6. Describe the unique anatomic and pathophysiologic changes that occur in diabetes which predispose to foot complications.
7. List the types of aortic aneurysms.
8. List the potential complications and indications for elective repair of abdominal aortic aneurysms.
9. Discuss the epidemiology, risk factors, and primary and secondary prevention strategies for the core vascular surgery presentations/conditions.
10. Recognize the roles of community resources available for patients presenting with vascular surgery problems.

SUBSPECIALTY MEDICINE OBJECTIVES

The following objectives apply to all medical subspecialties:

1. Appreciate the role of the medical subspecialist in the delivery of health care to the population.
2. Develop the knowledge, attitudes and skills in each medical subspecialty to improve the delivery of primary health care and/or quality of specialist referral for patients presenting with clinical problems relating to that subspecialty.
3. Collaborate with the health care team to ensure adequate patient care.
4. Develop effective communication skills to include maintaining clear, accurate, and appropriate records of clinical encounters and/or communicating in a language easily understood by patients and family members.
5. Demonstrates professional behavior with patients and their families, fellow students and residents, interdisciplinary team members and faculty.

Addictions Medicine

1. Learn a plain-language approach to the physiological, anatomical, socio-economic and psychological complexities of pain management.
2. Obtain a patient-centered history and physical examination on a patient presenting with common chronic pain disorders/presentations, and opioid use disorder.
3. Develop a differential diagnosis, clinical approach and initial management plan of a patient presenting with common chronic pain disorders/presentations and opioid use disorder.

4. Adjust personal communication style to patient and extra professional team needs considering knowledge level, background, culture etc.
5. Identify advocacy measures relevant to the health promotion of their patients, families, and communities.
6. Manage workload effectively.
7. Demonstrate self-directed learning utilizing the appropriate resources.

Cardiology

1. Perform a focused patient-centered history on a patient with chest pain.
2. Generate a differential diagnosis for a patient who presents with chest pain.
3. Perform a physical exam focusing on the cardio-respiratory system.
4. Interpret an ECG.
5. Assess a patient with a history of congestive heart failure, focusing on specific aspects of the history and physical exam.
6. Formulate a management plan for a patient with congestive heart failure.
7. Discuss the indications and potential complications for left heart catheterization.
8. Discuss the epidemiology and risk factors for patients with coronary artery disease and congestive heart failure.
9. Determine investigations useful for patients with a primary cardiac pathology, based on the history and physical.

Dermatology

1. Discuss epidemiology, risk factors and management of common squamous cell carcinoma, basal cell carcinoma and malignant melanoma.
2. Perform a focused dermatological physical exam.
3. Discuss the indications and complications of cryotherapy.

Endocrinology

Core Endocrinology Presentations: Diabetes Mellitus, Adrenal Insufficiency, Secondary Hypertension, Thyroid Disorders, Calcium and Phosphate Abnormalities

1. Perform a patient-focused history on a patient presenting with a core endocrinology presentation.
2. Perform a focused physical examination on a patient presenting with a core endocrinology presentation.
3. Based on the history and physical, generate a differential diagnosis, clinical approach and initial management of a patient presenting with a core endocrinology presentation.
4. Discuss the indications and complications for ultrasound-guided biopsy of a thyroid nodule.

Gastroenterology

Core Gastroenterology Presentations: Liver Abnormalities including Ascites, Abnormal Liver Enzymes/Function, Jaundice, Bowel Disorders including Irritable Bowel Syndrome, Inflammatory Bowel Disease, Constipation, Diarrhea, Hematemesis and Melena, Nausea, Vomiting, Weight Gain and Loss

1. Perform a patient-focused history on a patient presenting with a patient with a core gastroenterology presentation.
2. Perform a focused physical examination on a patient presenting with a core gastroenterology presentation.
3. Generate a differential diagnosis, clinical approach and initial management of a patient presenting with a core gastroenterology presentation.
4. Discuss the indications and complications of gastroscopy and colonoscopy.
5. Outline and participate in the management for a patient with acute GI bleeding.

Geriatrics

Core Geriatrics Presentations: Falls, Frailty, Urinary incontinence, Failure to Thrive

1. Perform a patient-focused history on a patient presenting with a core Geriatrics presentation.
2. Perform a focused physical examination on a patient presenting with a core Geriatrics presentation.
3. Based on the history and physical, generate a differential diagnosis, clinical approach and initial management of a patient presenting with a core Geriatrics presentation.
4. Assist patients and families to mitigate the risks of polypharmacy, including the risks of cross-reaction to self- or other- prescribed drugs, over-the-counter medications, and herbal, “natural” or nutraceutical products.
5. Work in interprofessional teams to collaborate on patient care.

Hematology

Core Hematology Presentation: Coagulation Disorders, Abnormalities of the Complete Blood Count including Thrombocytopenia/Thrombocytosis, Leukopenia/Leukocytosis, Anemia/Polycythemia

1. Perform a patient-focused history on a patient presenting with a core Hematology presentation.
2. Perform a focused physical examination on a patient presenting with a core Hematology presentation.
3. Based on the history and physical, generate a differential diagnosis, clinical approach and initial management of a patient presenting with a core Hematology presentation.
4. Discuss the indications and complications of bone marrow aspirate and biopsy.

Infectious Disease

Core Infectious Disease Presentations: Fever, Infections of Bodily systems, HIV, Hepatitis B and C

1. Perform a patient-focused history on a patient presenting with a core Infectious Disease presentation.
2. Perform a focused physical examination on a patient presenting with a core Infectious Disease presentation.
3. Generate a differential diagnosis, clinical approach and initial management of a patient presenting with a core Infectious Disease presentation.
4. Discuss the epidemiology and risk factors of patients with HIV and Hepatitis B and C.
5. Discuss common bacterial pathogens that are responsible for infections of bodily systems and recommended antibiotic treatment.

Nephrology

1. Perform a patient-centered history in a patient who presents with acute kidney injury.
2. Perform a physical examination in a patient who presents with acute kidney injury.
3. Differentiate the different categories of acute kidney injury.
4. Develop a differential diagnosis of a patient with acute kidney injury.
5. List key investigations for patients presenting with acute kidney injury.
6. Formulate a management plan for a patient with acute kidney injury.
7. Discuss the indications and potential complications for acute dialysis.
8. Interpret an arterial blood gas.
9. Discuss the epidemiology and risk factors for patients with chronic kidney disease.
10. Discuss and list the complications of patients with a reduced GFR.
11. Generate a clinical approach, differential diagnosis and management plan for patients with electrolyte abnormalities.

Neurology

Core Neurological Presentations: Diplopia/Visual Abnormalities, Dizziness/Vertigo, Ataxia, Headache, Weakness/Paralysis, Sensory Abnormalities (numbness/tingling), Aphasia and Speech Disorders, Altered Mental State/Coma, Seizure, Delirium/Dementia

1. Perform a focused patient-centered neurological history.

2. Perform a thorough and complete neurological physical exam.
3. Based on the history and physical exam findings, determine the neuroanatomical location of the patient's symptoms/finding.
4. Develop a differential diagnosis of patient's symptoms/findings.
5. Develop a management plan for patients with common and uncommon neurological disease.
6. Based on the history and physical exam findings, determine appropriate investigations for a patient who presents with common and uncommon neurological diseases.

Occupational Health & Safety

1. Conduct histories and physical examinations of patients presenting to the Occupational Medicine clinic under supervision. This includes taking a thorough occupational history and relevant physical examination, suggesting investigations, and if possible participating in follow-up and management of patients including communications with referring physicians.
2. Select and complete a short written article on a selected occupational medical topic for publication in the Rural Health Extension Program newsletter, written for the lay public. If the schedule permits, students will present at the CCHSA Tuesday seminar series on a selected occupational medicine health topic (35-40 minutes). This topic can be the same as the selected topic for the newsletter article if the student wishes.
3. List the fundamental rights of workers under Saskatchewan occupational health and safety legislation.
4. Explain briefly a physician's role and expectations under WCB legislation if a patient presents to clinic with a work-related illness or injury.
5. Attend worksite walkthroughs or visits with Faculty of workplaces in or around Saskatoon, and discuss with Faculty health and safety issues and hazards that they witnessed during the walkthrough.

Oncology

1. Perform a focused and concise history of cancer patients who are being treated with curative and palliative intentions.
2. Perform a concise patient-centered physical examination on a patient with a common cancer and their complications:
 - a. Lymphatic system examination
 - b. Skin examination for neoplastic, paraneoplastic and treatment related complications
 - c. Breast examination
 - d. Gastro-intestinal tract examination including for ascites, bowel obstruction, bowel perforation, and liver dysfunction
 - e. Cardio-pulmonary examination including for pleural effusion, cardiac tamponade, and superior vena cava obstruction
 - f. CNS examination including for spinal cord compression, neuropathy and CNS metastases
 - g. Vascular examination including for deep venous thrombosis & limb ischemia
 - h. Musculoskeletal examination including for bone metastases & myopathy
3. Use the Eastern Cooperative Oncology Group (ECOG) performance status scale.

4. Discuss histology and its role in diagnosis and treatment of malignancy.
5. Discuss tissue diagnosis of cancer and its role in identifying malignant cell of origin and primary site of the disease, and also in detecting various prognostic and predictive markers to tailor systemic treatment.
6. Discuss the balance of risks and benefits of treatment as a key consideration in making treatment decisions.
7. Interpret and synthesize patient's data to perform a structured and concise presentation.
8. Observe the diagnostic or therapeutic procedures that are done on outpatient basis at the Cancer Centre.
9. Recognize the concept of primary prevention and its application in oncology.
10. Demonstrate knowledge of current guidelines for cancer screening.
11. Recognize the role and structure of palliative and supportive care in the multidisciplinary management of advanced cancer including:
 - a. Optimal Pain Control
 - b. Nutritional Support
 - c. Psychosocial Support

Respirology

Core Respirology Presentations: Cough/Hemoptysis, Dysnea/Wheezing, Hypoxia/Hypercapnia, Pneumonia, Thromboembolic Disease, Pleural Effusion, Asthma/COPD

1. Perform a patient-focused history on a patient presenting with a core Respirology presentation.
2. Perform a focused physical examination on a patient presenting with a core Respirology presentation.
3. Generate a differential diagnosis, clinical approach and initial management of a patient presenting with a core Respirology presentation.
4. Discuss the epidemiology, risk factors, symptoms, physical exam findings, investigations and treatment options for patients with tuberculosis.
5. Discuss the indications and complications of bronchoscopy.

Rheumatology

Core Rheumatology Presentations: Joint Pain (Oligo, Polyarthralgia), Musculoskeletal Pain, Arthritis (Crystal Induced, osteo-, Inflammatory), Connective Tissue Disorders

1. Perform a patient-focused history on a patient presenting with a core Rheumatology presentation.
2. Perform a focused physical examination on a patient presenting with a core Rheumatology presentation.
3. Generate a differential diagnosis, clinical approach and initial management of a patient presenting with a core Rheumatology presentation.
4. Discuss the indications and complications of joint aspiration

Physical Medicine & Rehabilitation (PMR)

Core PMR disorders and presentations: Stroke, Acquired brain injury, Spinal cord injury, Amputation, Multiple Sclerosis, Motor neuron disorders (plexopathies, radiculopathies, peripheral neuropathies, neuromuscular junction disorders, myopathies, mononeuropathies, dystonia), Musculoskeletal disorders including sports injuries, overuse injuries and myofascial pain, Chronic Pain, complex regional pain syndrome (CRPS).

1. Obtain a patient-centered and functional history and physical examination for a patient presenting with common PM&R disorders/presentations.
2. Develop a differential diagnosis, clinical approach and initial management plan for a patient presenting with common PM&R disorders/presentations
3. Demonstrate the ability to communicate effectively with patients and all member of the interdisciplinary team.
4. Identify advocacy measures relevant to the health promotion of patients, families, and communities.
5. Demonstrate self-directed learning utilizing the appropriate resources.
6. Demonstrate professional behavior informed by ethical/legal standards such as: informed consent, confidentiality, capacity, patient autonomy and others.

IMPORTANT AND RELEVANT STUDENT INFORMATION

The following information is extremely important for student success in medical school. Please refer to the [UGME Policies](#) page and the [Student Information Guide](#) for the following policies:

UGME CONTACT INFORMATION

EMAIL COMMUNICATIONS

ETHICS AND PROFESSIONALISM

PROGRAM EVALUATION

GUIDELINES FOR PROVIDING FEEDBACK

EMERGENCY PROCEDURES

MD PROGRAM ATTENDANCE POLICY

ASSESSMENT POLICY

PROMOTION STANDARDS

CONFLICT OF INTEREST

NON-INVOLVEMENT OF HEALTH CARE PROVIDERS IN STUDENT ASSESSMENT

APPEALS PROCEDURES

STUDENT DISCRIMINATION, HARRASSMENT, AND MISTREATMENT PROCEDURE

ACCOMMODATION OF STUDENTS WITH DISABILITIES

TECHNICAL STANDARDS – ESSENTIAL SKILLS AND ABILITIES REQUIRED FOR THE STUDY OF MEDICINE

<https://medicine.usask.ca/policies/com-technical-standards.php#relatedForms>

OFFICE OF STUDENT AFFAIRS

Where a specific College of Medicine policy or procedure does not exist, the College refers to the U of S Academic Courses Policy at <http://policies.usask.ca/policies/academic-affairs/academic-courses.php>

UNDERGRADUATE MEDICAL EDUCATION ASSIGNMENT SUBMISSION POLICY

Any assignment submitted after 23:59 SK time on the specified date is deemed late (unless otherwise specified).

All due dates or timelines for assignment submission are published in the student course syllabus¹.

A late assignment may still be submitted up to three consecutive calendar days (72 hours) from the original deadline for that assessment. The assignment must be submitted to the appropriate year Administrative Coordinator in Saskatoon, or the Pre-Clerkship Coordinator in Regina for years 1-2. Years 3-4 must submit to the Rotation Coordinator. The student, if submitting a late assignment that is deemed to be at or above the pass mark for that assignment will receive the pass mark for the assignment. If it is assessed as below the pass mark, the student will receive the actual grade assigned for the assignment.

Any late assignments not submitted by 23:59 on the third day will receive a mark of 0%. After this period, all mandatory assignments must still be submitted, or the student will be deemed to be missing a course component, which will result in an incomplete course. Subsequent academic consequences will be determined at the promotions committee meetings.

In addition to the consequences specified herein, students submitting mandatory assignments late should anticipate a meeting to discuss professionalism, which may result in associated documentation.

All requests for a deferral of an assignment due date must be received a minimum of 72 hours prior to the deadline. All such requests must be sent to the Course Director or Rotation Coordinator and copied to the relevant Administrative Coordinator. The course director, in consultation with the year chair and appropriate course/module/rotation director will make a final decision and notify the student of the outcome. Exceptional, unforeseen circumstances will be considered on an individual basis as above.

CITATION FORMAT

Unless otherwise specified by the course or module director, the expected citation format is that of the International Committee of Medical Journal Editors (ICMJE). Examples of this citation format are available at www.nlm.nih.gov/bsd/uniform_requirements.html

PROFESSIONALISM

Students can be deemed unsuccessful on any course assessment for not achieving course expectations of professionalism. This would include, but is not limited to, any unapproved absences from a mandatory session, and/or submission of late assignments. Students failing to meet professional expectations in the course should anticipate a meeting with the Module/Course Directors and/or Year Chair to discuss the concern, which may result in associated documentation. For further information on professionalism, please refer to the UGME Procedures for Concerns with Medical Student Professional Behavior.

<http://medicine.usask.ca/policies/professionalism-standard-operating-procedure.php>

RECORDING OF THE LECTURES

Most lectures will be recorded and posted to the course Canvas site under Course Materials. However, each lecturer reserves the right to choose whether or not their lectures will be recorded. Lecture recordings are not intended to be a replacement for attending the session but rather to enhance understanding of the concepts.

¹ Canvas routinely updates their systems on certain Wednesday evenings. In the event that Canvas is down for scheduled maintenance or due to technical difficulties, assignments are to be submitted by 0900 the following morning.

Please remember that course recordings belong to your instructor, the University, and/or others (like a guest lecturer) depending on the circumstance of each session, and are protected by copyright. Do not download, copy, or share recordings without the explicit permission of the instructor.

For questions about recording and use of sessions in which you have participated, including any concerns related to your privacy, please contact the UGME administrative coordinator for this course. More information on class recordings can be found in the Academic Courses Policy <https://policies.usask.ca/policies/academic-affairs/academic-courses.php#5ClassRecordings>.

REQUIRED VIDEO USE:

At times in this course you may be required to have your video on during video conferencing sessions, in order to support observation of skills, to support group learning activities, or for exam invigilation. It will be necessary for you to use of a webcam built into or connected to your computer.

For questions about use of video in your sessions, including those related to your privacy, contact your instructor.

COPYRIGHT

Course materials are provided to you based on your registration in a class, and anything created by your professors and instructors is their intellectual property and cannot be shared without written permission. If materials are designated as open education resources (with a creative commons license) you can share and/or use in alignment with the [CC license](#). This includes exams, PowerPoint/PDF slides and other course notes. Additionally, other copyright-protected materials created by textbook publishers and authors may be provided to you based on license terms and educational exceptions in the Canadian Copyright Act (see <http://laws-lois.justice.gc.ca/eng/acts/C-42/index.html>).

Before you copy or distribute others' copyright-protected materials, please ensure that your use of the materials is covered under the University's Fair Dealing Copyright Guidelines available

at <https://library.usask.ca/copyright/general-information/fair-dealing-guidelines.php>. For example, posting others' copyright-protected materials on the open web is not covered under the University's Fair Dealing Copyright Guidelines, and doing so requires permission from the copyright holder.

For more information about copyright, please visit <https://library.usask.ca/copyright/index.php> where there is information for students available at <https://library.usask.ca/copyright/students/rights.php>, or contact the University's Copyright Coordinator at <mailto:copyright.coordinator@usask.ca> or 306-966-8817.

INTEGRITY DEFINED (FROM THE OFFICE OF THE UNIVERSITY SECRETARY)

Although learning in a remote context is different, the rules and principles governing academic integrity remain the same. If you ever have questions about what may or may not be permitted, ask your instructor. Students have found it especially important to clarify rules related to exams administered remotely and to follow these carefully and completely.

The University of Saskatchewan is committed to the highest standards of academic integrity (<https://academic-integrity.usask.ca/>). Academic misconduct is a serious matter and can result in grade penalties, suspension, and expulsion.

Prepare for Integrity

Students are expected to act with academic integrity.

- Students are encouraged to complete the Academic Integrity Tutorial to understand the fundamental values of academic integrity and how to be a responsible scholar and member of the USask community (tutorial link: <https://libguides.usask.ca/AcademicIntegrityTutorial>).

- Students can access campus resources that support development of study skills, time and stress management, and ethical writing practices important for maintaining academic integrity and avoiding academic misconduct.

Responses to Misconduct

Students are expected to be familiar with the academic misconduct regulations (<https://governance.usask.ca/student-conduct-appeals/academic-misconduct.php#About>).

- Definitions appear in Section II of the academic misconduct regulations.
- The academic misconduct regulations apply regardless of type of assessment or presence of supervision during assessment completion.
- Students are advised to ask for clarification as to the specific expectations and rules for assessments in all of their courses.
- Students are urged to avoid any behaviour that could result in suspicions of cheating, plagiarism, misrepresentation of facts. Students should note that posting copyrighted course materials (e.g., notes, questions, assignments or exams) to third party websites or services or other forum or media without permission is an academic or non-academic misconduct offense.

Non-academic offenses are dealt with under the [Standard of Student Conduct in NonAcademic Matters and Regulations and Procedures for Resolution of Complaints and Appeals](#).

ACCESS AND EQUITY SERVICES (AES)

Access and Equity Services (AES) is available to provide support to students who require accommodations due to disability, family status, and religious observances.

Students who have disabilities (learning, medical, physical, or mental health) are strongly encouraged to register with Access and Equity Services (AES) if they have not already done so. Students who suspect they may have disabilities should contact AES for advice and referrals at any time. Those students who are registered with AES with mental health disabilities and who anticipate that they may have responses to certain course materials or topics, should discuss course content with their instructors prior to course add / drop dates.

Students who require accommodations for pregnancy or substantial parental/family duties should contact AES to discuss their situations and potentially register with that office.

Students who require accommodations due to religious practices that prohibit the writing of exams on religious holidays should contact AES to self-declare and determine which accommodations are appropriate. In general, students who are unable to write an exam due to a religious conflict do not register with AES but instead submit an exam conflict form through their PAWS account to arrange accommodations.

Any student registered with AES, as well as those who require accommodations on religious grounds, may request alternative arrangements for mid-term and final examinations by submitting a request to AES by the stated deadline. Instructors shall provide the examinations for students who are being accommodated by the deadlines established by AES. For more information or advice, visit <https://students.usask.ca/health/centres/access-equity-services.php>, or contact AES at 306-966-7273 (Voice/TTY 1-306-966-7276) or email aes@usask.ca.

Students must arrange such accommodations through the Office of Student Affairs (OSA) by the stated deadlines. Instructors shall provide the examinations for students who are being accommodated by the deadlines established by AES.

STUDENT SUPPORTS

COLLEGE OF MEDICINE, OFFICE OF STUDENT AFFAIRS

Student Affairs offers confidential support and advocacy at arm's length from the academic offices.

For more information please contact:

COM Student Affairs Coordinator (Saskatoon), Edith Conacher at edith.conacher@usask.ca or (306) 966-4751

COM and the School of Rehabilitation Science Coordinator (Saskatoon), Bev Digout at bev.digout@usask.ca or 306-966-8224

Administrative Assistant, (Saskatoon): TBA or 306-966-7331

COM Student Affairs Coordinator (Regina), Sue Schmidt at sue.schmidt@saskhealthauthority.ca or 306-766-0620

Student Affairs Director, Dr. Nicole Fahlman (Regina) at nicole.fahlman@usask.ca or 306-209-0142

Student Affairs Director, Dr. Tiann O'Carroll (Regina) at tiann.ocaroll@usask.ca or 306-529-0777

OSA Associate Michelle Grove at michelle.grove@saskhealthauthority.ca or (306) 766-0553

Academic Help for Students

The University Library offers a range of learning and academic support to assist USask undergrad and graduate students. For information on specific services, please see the Learning page on the Library web site <https://library.usask.ca/support/learning.php>.

Remote learning support information <https://students.usask.ca/remote-learning/index.php>

Class and study tips <https://students.usask.ca/remote-learning/class-and-study-tips.php>

Remote learning tutorial https://libguides.usask.ca/remote_learning

Study skills materials for online learning <https://libguides.usask.ca/studyskills>

A guide on netiquette, principles to guide respectful online learning interactions <https://teaching.usask.ca/remote-teaching/netiquette.php>

Teaching, Learning and Student Experience

Teaching, Learning and Student Experience (TLSE) provides developmental and support services and programs to students and the university community. For more information, see the students' web site <http://students.usask.ca>.

Financial Support

Any student who faces challenges securing their food or housing and believes this may affect their performance in the course is urged to contact Student Central (<https://students.usask.ca/student-central.php>).

Aboriginal Students' Centre

The Aboriginal Students' Centre (ASC) is dedicated to supporting Aboriginal student academic and personal success. The centre offers personal, social, cultural and some academic supports to Métis, First Nations, and Inuit students. The centre is also dedicated to intercultural education, bringing Aboriginal and non-Aboriginal students together to learn from, with and about one another in a respectful, inclusive and safe environment. Students are encouraged to visit the ASC's Facebook page (<https://www.facebook.com/aboriginalstudentscentre/>) to learn more.

International Student and Study Abroad Centre

The International Student and Study Abroad Centre (ISSAC) supports student success and facilitates international education experiences at USask and abroad. ISSAC is here to assist all international undergraduate, graduate, exchange and English as a Second Language students in their transition to the University of Saskatchewan and to life in Canada. ISSAC offers advising and support on matters that affect international students and their families and on matters related to studying abroad as University of Saskatchewan students. Please visit students.usask.ca for more information.

Recommended Technology for Remote Learning

Students are reminded of the importance of having the appropriate technology for remote learning. The list of recommendations can be found at <https://students.usask.ca/remote-learning/tech-requirements.php>.

Remember, there are [many supports available](#) to help you thrive in the remote learning context.