# Foundations in Clinical Medicine I

MEDC 126.18 YEAR 1 TERM 2

COURSE SYLLABUS 2020/2021



#### LAND ACKNOWLEDGEMENT

As we engage in Remote Teaching and Learning, we acknowledge we are on Treaty Six 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

## Foundations in Clinical Medicine I – Course Overview

## **REMOTE LEARNING CONTEXT**

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 2020-21 Winter 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.

#### **COURSE DESCRIPTION**

The Foundations in Clinical Medicine Courses run over Terms 2, 3, and 4 and incorporate the eleven human body systems modules. The four modules explored in the Foundations of Clinical Medicine I (Term 2) Course include: Gastrointestinal, Respiratory, Cardiovascular, and Hematology Medicine. Major vertical themes will be emphasized. Students will be prepared to enter their clerkship where they will expand and deepen their knowledge and skills in these areas.

Completion of this course will help you attain elements of your overall undergraduate program objectives (<u>Program Learning Objectives</u>).

## **COURSE PREREQUISITES**

A student must have successfully completed Principles of Biomedical Science (MEDC 115.18) or be conditionally promoted and engaged in a program of remediation for the MEDC 115.18 course as approved by the Undergraduate Education Committee prior to the start of the Foundations of Clinical Medicine I course.

#### **OVERALL COURSE OBJECTIVES**

Building on their knowledge from MEDC 115.18 of normal anatomy, histology and physiology, students will learn to care for patients with common and/or urgent medical conditions by acquiring and applying knowledge and clinical reasoning skills to:

- 1. Explain the pathogenesis and pathophysiology of the subject conditions, with reference to the divergence from normal anatomy, histology and/or physiology.
- 2. Generate reasonable differential diagnoses and evidence-based management plans.
- 3. Select and interpret appropriate evidence-based investigations.
- 4. Develop an evidence informed approach to health promotion, illness prevention and disease screening for healthy and at risk populations.

**Note:** In addition, each discipline-specific module in the course will also have its own specific module objectives and individual session objectives of learning. Detailed individual lecture and session

objectives will be posted in one45. Please take care to review in advance.

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: <a href="https://www.usask.ca/university">www.usask.ca/university</a> secretary/LearningCharter.pdf.

## **COURSE CONTACTS**

Course Chairs: Dr. Jennifer Chlan - jen.chlan@usask.ca (306) 966-6557

Dr. Jackie Perrot – jackie.perrot@usask.ca (306) 966-6138

Co-Chair (Assessment) – Dr. Kelsey Brose - kelsey.brose@saskcancer.ca (306) 655-1483

Administrative Coordinator: Cheryl Pfeifer - <a href="mailto:cheryl.pfeifer@usask.ca">cheryl.pfeifer@usask.ca</a> (306) 966-6138

#### **COURSE SCHEDULE**

The Foundations in Clinical Medicine I Course is organized in 4 modules running sequentially on specific assigned days. Session schedules for each of the modules will be posted in one45.

All information relating to this course is available in **one45**. Please check one45 **DAILY** to ensure that you have the most current schedule information.

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 link below for the most current objectives.

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

## **COURSE DELIVERY**

Students will learn through a variety of methods, including:

Large group sessions including lectures, interactive discussions, case-based problem solving

Interactive small group learning sessions

Independent self-directed reading and exercises

#### **COURSE MATERIAL ACCESS**

Course materials are available in one45. The syllabus, forms, and other useful documents will be posted there. In some modules, BBLearn (Blackboard) will be used for submission of assignments.

#### **RESOURCES**

It is strongly recommended that you use the following resources (or similar general texts) as references for the Foundations course. Relying on class notes alone will not typically be sufficient to meet your learning objectives. Individual Modules will have additional specific recommended or required resources. It may be helpful to review websites such as <a href="http://www.choosingwiselycanada.org">http://www.choosingwiselycanada.org</a>.

The Spectrum app is available for free download through the App Store and Google Play. A web-version is also available https://spectrum.app/saskatoon/

The CANImmunize app is available for free download through the App Store and Google Play.

The texts listed below are all available as free e-books through the Health Sciences library <a href="http://libguides.usask.ca/c.php?g=16462&p=91000">http://libguides.usask.ca/c.php?g=16462&p=91000</a>. If you need assistance finding these texts, contact your Health Sciences librarian.

- 1. A general medicine text such as Harrison's Principles of Internal Medicine by Kasper et al (ISBN: I 978-0-07-1802161 for e-book). Edition: 19.
- 2. A general surgical text such as Sabiston Textbook of Surgery by Townsend C (ISBN 978-1-4377-1560-6). Edition: 19 or Current Diagnosis and Treatment Surgery by Doherty G (ISBN 978-0-07-179211-0). Edition: 14.
- 3. A general pediatrics text such as Nelson Essentials of Pediatrics by Marcdante, Karen J (ISBN: 978-1-4557-5980-4). Edition: 7 or Rudolph's Pediatrics by Rudolph C. et al. (ISBN: 9780071790376). Edition: 22.

In addition, you should be regularly referring to your Principles Course texts to assist you with basic sciences content in the Foundations Course:

## **Physiology**

WF Boron & EL Boulpaep (2012). Medical Physiology. Updated Second Edition. Saunders Elsevier.

## Histology

Wheater's Functional Histology by Barbara Young, Phillip Woodford and Geraldine O'Dowd (2013) [ISBN 978-0-7020-4747-3]

OR

Histology: A Text and Atlas (2016) by M.H. Ross and W. Paulina [ISBN 978-1-4511-8742-7]

# **Embryology**

Larsen's Human Embryology by Shoenwolf, Brauer [978-0443-06811-9]

# **Anatomy** - One of:

Essential Clinical Anatomy by Moore KL, Agur MR [987 1145 1187496]

Grant's Atlas of Anatomy [978 0781796125]

Netters Atlas of Human Anatomy [9781455704187]

# **Pharmacology**

Goodman & Gilman's Manual of Pharmacology and Therapeutics (2<sup>nd</sup> Edition). Eds. By Hilal-Dandan & Brunton. Principles of Pharmacology: The pathophysiologic Basis of Drug Therapy. By David E Golan (3<sup>rd</sup> Edition)

Applied Pharmacology. By Stan Bardal, Jason Waechter, Doug Martin. [978-1-4377-0310-8]

# Microbiology

Review of Medical Microbiology and Immunology (Lange Medical Books) Paperback. By Warren Levinson (Author). [978-0071818117]

Clinical Microbiology Made Ridiculously Simple: Mark Gladwin MD, William Trattler MD, C. Scott Mahan MD [978-1-9356-6015-6]

# **Immunology**

Review of Medical Microbiology and Immunology (Lange Medical Books) Paperback. By Warren Levinson (Author). [978-0071818117]

Immunology Made Ridiculously Simple: Massoud Mahmoudi [978-0-940780-89-7]

## **Pathology**

Robbins Basic Pathology, 9e (Robbins Pathology) [Hardcover] Vinay Kumar MBBS MD FRCPath (Author), Abdul K. Abbas MBBS (Author), Jon C. Aster MD PhD (Author) [ISBN 978-1-4377-1781-5] Edition 9

## **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/

Textbooks are available online from the University of Saskatchewan Bookstore: <a href="https://bookstore.usask.ca/students.php#MyTextbooks">https://bookstore.usask.ca/students.php#MyTextbooks</a>

## **COURSE ASSESSMENT OVERVIEW**

Course Component	Module Components	Module	Component	Weighting in Final
'	ľ	Weight	Requirement	Foundations I Mark
Gastrointestinal Module	Histology Assignment	5%	70% on module	25%
	Nausea & Vomiting Assignment	5%		
	Colonic Assignment	5%		
	Imaging Assignment	5%		
	Mid-Module Exam	30%		
	End-of Module Exam	50%		
Respiratory Module	Quiz I	10%	70% on module	25%
	Quiz II	10%		
	Histology Assignment	5%		
	Palliative Care Assignment	5%		
	Mid-Module Exam	25%		
	End of Module Exam	45%		
Cardiovascular Module	Patient Voice Assignment	3%	70% on module	25%
	NNT Assignment	3%		
	ECG On-Line Module	9%		
	ECG Blackboard Quiz	5%		
	Intro to CV Quiz	10%		
	Mid-Module Exam	25%		
	End of Module Exam	45%		
Hematology Module	3 Quizzes (20% each)	60%	70% on module	25%
	End of Module Exam	40%		
Course Total Mark		1	1	100%
Foundations I Final Exam *			60% on exam	

<sup>\*</sup> The Foundations I Final exam is a cumulative exam and tests clinical application of content from Foundations I. It is modeled on the national exam at the end of medical school, the MCCQE part 1 exam, and consists of a series of clinical vignettes that test a student's ability to diagnose, investigate, and treat various health conditions. Question styles may include: multiple choice, extended multiple choice, fill-in-the-blank, and matching. A minimum score of 60% is required for successful course completion.

In order to provide students more individualized feedback following most exams students will receive individual feedback sheets that will detail the student's progress towards achievement of the course/module objectives.

#### **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.

#### **RUBRICS**

Where applicable, rubrics for all assignments will be posted on one45 for the relevant session. For those assignments submitted via Blackboard they are also posted in Blackboard. In the event of a discrepancy between the two versions, that posted on Blackboard shall be taken to be correct.

#### **COURSE POLICY FOR SUCCESSFUL COMPLETION & REMEDIATION**

For successful course completion for the purposes of promotion, students must achieve a minimum grade of 70% in each of the four modules within the Foundations I course (Gastrointestinal, Respiratory, Cardiovascular and Hematology Medicine Modules). Students must also achieve a minimum grade of 60% in the Foundations Final Examination for Foundations I. Students not promoted as a result of being unsuccessful on the course will receive a grade of "F" on their transcripts.

A student's grade for each module will be determined at the end of each module and is based on the weighted cumulative average of all graded assessments within each individual module.

The requirements for successful completion of the Foundations I Course are listed below. Please note that students must meet the overall Term 2 promotion standards in order to be promoted to Year 2 (see Student Information Guide).

- A) Students will be considered to have successfully completed the Foundations I Course if they have achieved a minimum 70% average grade in each of the four modules and a minimum 60% grade on the end of term Foundations I Final Examination.
- B) Students are required to complete all assignments, quizzes, tests and examinations in each of the Foundations modules, as well as the Foundations I Final Examination. A mark of 0% will be given for any missed quiz, test or examination, unless otherwise arranged as per the College of Medicine Attendance Policy and Deferral Policy. Assignments are adjudicated as per the Assignment Submission Policy.
- C) Students who do not achieve the required 70% average grade in any of the four modules or a 60% grade in the Foundations I Final Examination will be allocated grade deficit points, which are weighted based on the percentage grade below the pass standard for either the modules or Foundations I Final Exam (see Table 1 for grade deficit point allocation rubric). Students accumulating 2 or more deficit points at any point during the course will be deemed to be experiencing academic difficulty. The severity of academic difficulty will be based on the weighted grade deficit assessment. Students in academic difficulty will be required to meet with a course sub-committee of at least 2 people (made up of Course Chairs(s); Year Chair(s), Academic Support Specialist or designates), or others as needed, to discuss ways to improve academic performance. The goal of such a meeting is not meant to be punitive, but should be student-centered, and focused on the success and well-being of the student. With any further accrual of deficit points, the student may be required to again meet with the course sub-committee.

- D) Students who have failed a module or the Foundations I Final Exam may be offered remediation. The determination of eligibility for any remediation will be based on the number of accumulated weighted grade deficit points (see Table 1 for grade deficit point allocation rubric), or the number of failed modules. Students who have accrued a total of four (4) or more grade deficit points or accrued deficit points in three (3) separate modules within Foundations I will be considered to have been unsuccessful in the Foundations I Course and will NOT be offered further remediation or supplemental assignments and/ or examinations as per usual course policy. Further decisions regarding academic outcomes will be adjudicated by the Year 1 (Term 2) Promotions Committee and the Student Academic Management Committee.
- E) The module director will determine the specific type of remediation needed for each individual student. Remediation may be in the form of additional assignments, assigned readings, and/or meetings with the module director or designate. The remediation timeline will begin once the student has been notified of failure in a module or the Foundations I Final. A remediation plan will be arranged between the module director and student, in consultation with the Academic Support Specialist, which will be carried out from the beginning of the remediation timeline until the date of the supplemental assessment. The module director, in consultation with the Assessment Specialist, will determine the specific type of supplemental assessment.
- F) Supplemental examinations will **only** be scheduled after the final exam period in May. Students required to remediate modules will be informed of the specific supplemental examination dates. Students should anticipate that supplemental exams for all but the final module of the term will be held within 7 days of the last final exam and that supplemental exams for the final module of the term and the Foundations I Final Exam will be held mid-June. Where students have supplemental exams in more than one module or course then adjustments may be made to the supplemental exam schedule by the Year Chair, in coordination with Course Chair/Module Director(s).
  - Supplemental assessments will be scheduled after the final exam period and will be scheduled by the UGME office. Supplemental assessments will ONLY be offered on scheduled dates unless there are exceptional circumstances (such as personal illness, bereavement, etc.). In cases of exceptional circumstances, students should follow the <a href="Deferred Exam Procedure">Deferred Exam Procedure</a> to request adjustment of their schedule. Exceptions will not be made for personal travel, and students will be required to adjust personal travel arrangements
- G) A maximum of **one (1)** supplemental examination per module will be allowed, up to the point of course failure (see D). As well, students will only be allowed to write **one (1)** supplemental examination for the Foundations I Final Exam, up to the point of course failure (see D). Students who have been unsuccessful in any supplemental examination will be deemed unsuccessful in the Foundations I course. Further decisions regarding academic outcomes will be adjudicated by the Year 1 (Term 2) Promotions Committee and the Student Academic Management Committee.
- H) If a student fails an assignment identified as a mandatory pass in a module, supplemental assignments may be written as arranged between the student, module director and/ or course chair(s). Supplemental assignments must be completed by the date set by the Module Director with the latest possible due date being two weeks after the end of the module; however, alternative earlier due dates may be arranged between student and module director.
  - \* NOTE All assessments including the final exam are mandatory to complete.
- I) If a failure of a supplemental examination occurs during or after the final examination period, this decision as to whether any additional remediation/supplemental assessment will be allowed will be adjudicated by the Promotions Committee and the Student Academic Management Committee.

- J) Success in any supplemental assessment will be accorded a maximum grade equivalent to the minimum requirement for that component of the course (70% for a Module and 60% for the Foundations I Final Exam).
- K) Grade deficit points will not appear on the student's transcript, nor are they transferred to any other course in the UME Program.

Students who are eligible for supplemental examination will be contacted by the Module Director and should arrange to meet with the Module Director and the Academic Support Specialist to discuss educational issues and develop a learning plan.

**Table I: Grade Deficit Point Allocation** 

	Overall grade achieved in module before remediation or grade achieved in Supplemental Examinations			
	< 70% and <u>&gt; </u> 60%	< 60% and <u>&gt;</u> 50%	<50%	
Gastrointestinal Module	1	II	III	
Respiratory Module	1	II	III	
Cardiovascular Module	1	II	III	
Hematology Module	1	II	III	
Foundations I Final Exam	N/A	1	=	

I: one grade deficit point; II: two grade deficit points; III: three grade deficit points; N/A: not applicable.

#### **EXAM REVIEW**

Time has been built into the curriculum for post examination reviews. During these sessions Directors or Chairs will clarify key concepts where misunderstanding was apparent. Students will not be provided opportunity to view their examination questions/papers as part of a group or individual review process. In the event of specific module or exam failure, a student may contact the appropriate Module Director, Course Director or Course Chair to arrange an opportunity to identify concepts or content areas where difficulty was experienced during the examinations.

## Foundations in Clinical Medicine I – Module Syllabus

This section of the course syllabus will describe the specific objectives, requirements and expectations, and assessment procedures for each module within the Foundations in Clinical Medicine I Course.

#### MODULE 1

#### Gastrointestinal

#### **MODULE DIRECTOR**

#### Dr. Edward Ha

Email: eddy.ha@usask.ca

Phone Number: (306) 844-1002

Office Location: RUH 2658

Office Hours: Please contact to arrange a meeting

## **MODULE DESCRIPTION**

The Gastrointestinal module is designed to provide to the undergraduate medical student an overview of the normal function and structure of the gastrointestinal system. The module also provides a learning experience to understand how common disease processes may affect the GI system to create gastrointestinal illness. The symptoms and the clinical approach to these symptoms will be provided along with discussion of specific common GI illnesses. This will be accomplished by a combination of traditional lectures on common GI complaints along with lectures on specific diseases. Small group sessions will be held to apply the knowledge learned in the formal lectures using case discussions.

#### **MODULE OBJECTIVES**

By the completion of this module, students will be able to:

- 1. Describe the normal function of the gastrointestinal tract and how the system can be affected by disease processes to create clinical illness.
- 2. Develop an approach to the differential diagnosis of common and serious GI presentations.
- 3. Describe common and serious GI conditions including their epidemiology and clinical features including history and physical findings.
- 4. Select and interpret testing for appropriate screening, surveillance and diagnosis of GI conditions.
- 5. Describe management of common GI conditions.

## **MODULE SCHEDULE**

All information relating to this course is available in one45. Please check one45 **DAILY** to ensure that you have the most current schedule information.

# **REQUIRED RESOURCES**

First Principles of Gastroenterology and Hepatology in Adults and Children (Note: this is an on-line textbook which is free to download at: www.giandhepatology.com)

Students will benefit from preparation prior to sessions. This is expected prior to the small group interactive discussions. Further individual session resources and pre-readings may also be posted within One45.

## **MODULE DELIVERY**

Students will learn through a variety of methods, including:

Large group didactic lectures

Interactive small group learning sessions

Independent self-directed reading and exercises including assignments

## **STUDENT ASSESSMENT**

Assessments	20%
Histology Assignment	5%
Nausea and Vomiting Assignment	5%
Colonic Diverticulosis Assignment	5%
Imaging Assignment	5%

Exams	80%
Mid-Module	30%
End of Module	50%

Assessment 1: Histology Assignment

Value: 5% of Final Grade

Due Date: January 29, 2021

Description: Exploration of gastrointestinal histology knowledge through short answers in take-home

format.

Assessment 2: Nausea and Vomiting Assignment

Value: 5% of Final Grade

Due Date: January 13, 2021

Description: Assignment to solidify learning around nausea and vomiting.

Assessment 3: Colonic Diverticulosis Assignment

Value: 5% of Final Grade

Due Date: January 20, 2021

Description: Assignment to solidify learning around colonic diverticulosis.

Assessment 4: Imaging Assignment

Value: 5% of Final Grade

Due Date: January 29, 2021

Description: Assignment to solidify learning around imaging related to GI conditions.

# Mid-Module Exam

Value: 30% of Final Grade

Date: January 15, 2021

Description: Question type may include: multiple choice, multiple choice multiple answer, fill in the blank,

true-false, short answer, matching, and extended written questions based on all content up to

and including January 13, 2021.

# End of Module Exam

Value: 50% of Final Grade

Date: February 1, 2021

Description: Based on ALL module content, weighted more heavily on content not covered on mid-module

exam. Question type may include: multiple choice, multiple choice multiple answer, fill in the blank, true-false, short answer, matching, and extended written questions based on all content

up to and including January 29, 2021.

Please refer to overall course promotion/failure/remediation standards outlined earlier in this syllabus.

# **COURSE EVALUATIONS QUALITY IMPROVEMENT**

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

- 1. Further integration of medical imaging into the module.
- 2. Opportunity to apply lecture material to clinical scenarios.

#### **MODULE 2**

## Respiratory

## **MODULE CO-DIRECTORS**

Dr. Chung Chun (Anderson) Tyan

Email Address: cht995@mail.usask.ca

Phone Number: (306) 956-3444 (Ext 2)

Office Location: 420-210 Ave PS

Office Hours: please contact to arrange a meeting

#### Dr. Jared Diederichs

Email Address: j.diederichs@usask.ca

Phone Number: c/o Cheryl Pfeifer (306) 966-6138

Office Location: 200-3211 Preston Ave S

Office Hours: please contact to arrange a meeting

## **MODULE DESCRIPTION**

This module will include the study of respiratory related physiology in addition to the pathophysiology, diagnosis, prognosis and treatment of respiratory related diseases. Students will develop a clinical approach for patients with common and urgent thoracic/respiratory system problems including upper and lower airway, pleural and parenchymal disease/disorders/trauma/malignancies. Major vertical themes will be emphasized including public health implications related to respiratory diseases.

#### **MODULE OBJECTIVES**

By the completion of this module, students will be able to:

- 1. Construct a differential diagnosis in a patient presenting with airway/thoracic/respiratory abnormalities.
- 2. Order and interpret appropriate investigations.
- 3. Outline a management plan for patients with an airway/thoracic/respiratory disease/disorder.
- 4. Explain the pathogenesis and pathophysiology of common or urgent respiratory/thoracic diseases/disorders.

## **MODULE SCHEDULE**

All information relating to this course is available in one45. Please check one45 **DAILY** to ensure that you have the most current schedule information.

## **REQUIRED RESOURCES**

# (On reserve at the Leslie and Irene Dubé Health Sciences Library)

West JB (J Burnard), Luks A. West's Pulmonary Pathophysiology: The Essentials. New York: Woulters Kluwer, 2017.

Additional resource materials recommended to students include:

Online lectures by J.B. West: <a href="https://meded.ucsd.edu/ifp/jwest/resp">https://meded.ucsd.edu/ifp/jwest/resp</a> phys/</a>

Kasper D, Facui A, Hauser S, Longo D, Jameson JL, Loscalzo J. Harrison's principles of internal medicine (19<sup>th</sup> ed.) New York: McGraw-Hill, 2015. Available online at <a href="https://sundog.usask.ca/record=b3724955~S8">https://sundog.usask.ca/record=b3724955~S8</a>.

Chapter Nine of the Undergraduate Imaging addresses CXR <a href="https://undergradimaging.pressbooks.com/front-matter/introduction/">https://undergradimaging.pressbooks.com/front-matter/introduction/</a>

Acid-Base Workbook (See materials posted under Session One of this module in One45). \*this workbook include in depth renal causes of acid-base disorder and it not examined in the respiratory module.

Further individual session resources and pre-readings may also be posted within One45.

## **MODULE DELIVERY**

Students will learn through a variety of methods, including:

Large group didactic session with case-based questions within the session

Interactive small group case-based learning sessions,

Independent self-directed reading and exercises,

Histology laboratory experience with virtual microscopy slides

**Note:** Student pre-reading is required in this module. Students are strongly encouraged to come to class prepared to actively participate in the educational sessions.

## **STUDENT ASSESSMENT**

Assessments	30%
Quiz I	10%
Quiz II	10%
Histology Assignment	5%
Palliative Care Assignment	5%
Exams	70%
Mid-Module	25%
End of Module	45%

Assessment 1: Histology Assignment Value:

5% of Final Grade

Due Date: February 5, 2021

Description: Take home quiz downloaded and submitted through BBLearn.

Assessment 2: Quiz I

Quiz Value: 10% of Final Grade

Posting Date: February 5, 2021

Due Date: February 9, 2021

Description: On-line quiz covering physiology, ABGs, CXRs and PFTs.

Assessment 3: Quiz II

Quiz Value: 10% of Final Grade

Posting Date: February 23, 2021

Due Date: February 26, 2021

Description: On-line quiz covering all material on adult Respirology topics.

Assessment 4: Palliative Care Assignment

Value: 5% of Final Grade

Due Date: February 23, 2021

Description: Narrative responses to questions related to palliative care following the Asthma and COPD Case

Study. Your assignment is to be posted on Blackboard. Assignments will be graded by small group

tutors according to the posted rubric.

# Mid-module Exam

Value: 25% of Final Grade
Date: February 12, 2021

Description: Comprehensive question type may include: multiple choice, multiple choice multiple answer, fill

in the blank, true-false, short answer, matching, and extended written questions based on all

content up to and including February 10, 2021.

# End of Module Exam

Value: 45% of Final Grade

Date: March 8, 2021

Description: Comprehensive exam. Question type may include: multiple choice, multiple choice multiple

answer, fill in the blank, true-false, short answer, matching, and extended written questions.

Please refer to overall course promotion/failure/remediation standards outlined earlier in this syllabus.

# **COURSE EVALUATIONS FOR QUALITY IMPROVEMENT**

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

- 1. Adding case-based questions within the lecture.
- 2. COVID 19 teaching.
- 3. Review lecture slides length and adjust to the allotted time.
- 4. Review and update pediatric small group cases.

## MODULE 3

#### Cardiovascular

#### **MODULE CO-DIRECTORS**

Dr. Desiree Rouleau

Email Address: desiree.rouleau@usask.ca

Phone Number: please use email to contact

Office Location: RUH Emergency Physician Office

Office Hours: please contact to arrange meetings

## Dr. Mike Cenkowski

Email Address: c/o cheryl.pfeifer@usask.ca

Phone Number: please use email to contact

Office Hours: please contact to arrange meetings

#### **MODULE DESCRIPTION**

This module will include the study of cardiovascular related anatomy and physiology in addition to the pathophysiology, diagnosis, prognosis and treatments of cardiovascular related diseases. Students will develop a clinical approach for patients with common and urgent/emergent cardiac and vascular related problems including peripheral vascular, ischemic, dysrhythmic, valvular, inflammatory and pediatric congenital disease/disorders. Major vertical themes will be emphasized including preventative medicine implications related to cardiovascular diseases.

## **MODULE OBJECTIVES**

By the completion of this module, students will be able to:

- 1. Construct a differential diagnosis for a patient presenting with cardiovascular related symptomatology or abnormalities.
- 2. Order appropriate medical investigations and be able to interpret them.
- 3. Outline a management plan for patients with cardiovascular related disease/disorders.
- 4. Explain the pathogenesis and pathophysiology of common or urgent/emergent cardiac and/or vascular related diseases/disorders.
- 5. Describe evidence-based approaches to primary and secondary prevention of cardiovascular disease.

## **MODULE SCHEDULE**

All information relating to this course is available in one45. Please check one45 **DAILY** to ensure that you have the most current schedule information.

#### **RECOMMENDED RESOURCES**

# (\* denotes available at the Leslie and Irene Dubé Health Sciences Library)

Pathophysiology of Heart Disease: A Collaboration Project of Medical Students and Faculty. (2015), Lilly L. \* The Cardiology Rotation: Basic Reading and Board Review. (2014), Taylor G.

Clinical Cardiology Made Ridiculously Simple. (2014), Chizner, M.

Essentials of Bedside Cardiology: A Complete Course in Heart Sounds and Murmurs. (2012), Constant, J.\*

Harrison's Principles of Internal Medicine, 19th Edition. (2015), Kasper, D. \*

Understanding Electrocardiography. (2003), Boudreau Conover, M.\*

Pocket Guide to Electrocardiography. (1998), Boudreau Conover, M.\*

The Only EKG Book You'll Ever Need. (2015), Thaler, M. \*

Rapid Interpretation of EKG's, 6th Edition. (2000), Dubin, D. \*

A case workbook of electrocardiograms and clinical cases for use in small group sessions will be provided to each student via One45.

ECG Module at teachingmedicine.com – students will be contacted early in the Foundations course to be enrolled in the on-line course to be able to access the ECG module at www.teachingmedicine.com

Further course/individual session resources and pre-readings may also be posted within One45.

## **MODULE DELIVERY**

Students will learn through a variety of methods, including:

Large group didactic, interactive and case-based problem solving sessions

Interactive small group learning sessions

Independent self-directed reading and exercises

**Note:** Student pre-reading is required in this module. Students are strongly encouraged to come to class prepared to actively participate in the educational sessions.

#### STUDENT ASSESSMENT

Assessments	30%
Patient Voice Assignment	3%
ECG On-Line Module Assignment	9%
Number Needed to Treat Assignment	3%
Introduction to CV Quiz	10%
ECG Quiz	5%

Exams 70%

Mid-Module 25%

End of Module 45%

Assessment 1: Number Needed to Treat Assignment\*

Value: 3% of Final Grade

Due Date: March 23, 2021

Description: Following the in-class presentation, complete on-line assignment using the Number Needed to

Treat (NNT) concept. This session will be mandatory as per Attendance policy.

Assessment 2: Patient Voice Assignment \*

Value: 3% of Final Grade

Due Date: April 8, 2021

Description: In short answer format, reflect upon insight gained into CV patient experience. This will be an in-

class assessment, mandatory as per Attendance policy.

Assessment 3: ECG On-Line Module Participation Value:

Value: 9% of Final Grade

Due Date: Module Completion: April 2, 2021

In-Class Quiz: March 31, 2021

Description: On-line module participation to build understanding of ECGs and improve comfort with

interpreting ECGs. Available at: teachingmedicine.com.

6% of the final grade will be awarded through completion of the assigned modules.

3% of the final grade will be scored through the online ECG In-Class Quiz on Wednesday,

March 31, 2021.

Quiz 1: Introduction to CVValue: 10% of Final GradeDate: March 17, 2021

Description: In-class, open-book quiz on basic sciences and principles of cardiovascular disease. On materials

from March 2 up to and including March 6.

Quiz 2: ECG Blackboard Quiz

Value: 5% of Final Grade

Date: April 6, 2021

Description: Blackboard exam to strengthen interpretation skills for common and important ECGs.

## Mid-Module Exam

Value: 25% of Final Grade

Date: March 23, 2021

Description: Questions on basic sciences of cardiology, hypertension, peripheral vascular disease, and

ischemic heart disease.

Question type may include: multiple choice, multiple choice multiple answer, fill in the blank, truefalse, short answer, matching, and extended written questions based on all content up to and including CAD cases March 14. (Excluding Physiology and Pharmacology of Dysrhythmia March

13).

# End of Module Exam

Value: 45% of Final Grade

Date: April 12, 2021

Description: Comprehensive questions on full course content, weighted slightly more heavily to those

topics not on the midterm, including dysrhythmia, heart failure, valvular disease and pediatric

heart disease.

Question type may include: multiple choice, multiple choice multiple answer, fill in the blank, truefalse, short answer, matching, and extended written questions based on all content up to and

including April 3.

Please refer to overall course promotion/failure/remediation standards outlined earlier in this syllabus.

\* In-class assessments – these sessions will be mandatory as per Attendance Policy.

# **COURSE EVALUATIONS QUALITY IMPROVEMENT**

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

- 1. Incorporation of more clinical cases into lectures.
- 2. Working with lecturers to teach primarily based on objectives.
- 3. Addition of new sessions based on previous feedback: in-class case session previous to midterm and selected topics in cardiovascular medicine.
- 4. Continued communication with students to set expectations (of both learners and instructors) as well as to address concerns as they arise.

# MODULE 4

# Hematology

#### **MODULE DIRECTOR**

Dr. Kelsey Brose

Email Address: kelsey.brose@saskcancer.ca

Phone Number: (306) 655-1483

Office Location: RUH 2609

Office Hours: please contact for meeting

#### **MODULE DESCRIPTION**

Hematology is the study of blood and blood diseases. This module will include the study of the physiology of blood/hematologic system components in addition to the pathophysiology, diagnosis, prognosis and treatment of blood related diseases. Through lectures and cases, students will develop a clinical approach to common hematologic problems including anemia, bleeding disorders, hereditary and acquired thrombotic disorders, lymphadenopathy, splenomegaly, hematologic malignancies and transfusion medicine.

#### **MODULE OBJECTIVES**

By the completion of this module, students will be able to:

- 1. Construct a differential diagnosis in a patient presenting with hematologic related abnormalities.
- 2. Order appropriate laboratory investigations and be able to interpret them.
- 3. Outline a management plan for patients with a hematological disease/disorders.
- 4. Explain the pathogenesis and pathophysiology of common or urgent hematologic disorders.
- 5. Describe evidence-informed principles of surveillance and screening for selected hematological conditions.

## **MODULE SCHEDULE**

All information relating to this course is available in one45. Please check one45 **DAILY** to ensure that you have the most current schedule information.

## **REQUIRED RESOURCES**

Lecture notes are designed to be comprehensive enough for most purposes. Students wishing to deepen their lecture can refer to the supplemental textbooks listed below.

# **Supplemental Resources:**

Essential Hematology (Wiley-Blackwell, 7<sup>th</sup> edition)

**Note:** Student pre-reading is required in this module. Students are strongly encouraged to come to class prepared to actively participate in the educational sessions.

#### **MODULE DELIVERY**

Students will learn through a variety of methods, including:

Large group didactic, interactive and case-based problem solving sessions Interactive small group learning sessions

Independent self-directed reading and exercises

#### STUDENT ASSESSMENT

Quizzes 60%
Quizzes 3 x 20%

End of Module 40%

Quiz 1: Anemia

Value: 20 % of Final Grade

Date: April 19, 2021

Description: Tests the student's knowledge of normal blood formation, as well as the approach to a patient with

anemia.

Question type may include: multiple choice, multiple choice multiple answer, fill in the blank, true-

false, short answer, matching, and extended written questions.

Quiz 2: Hemostasis, Thrombosis and Transfusion Medicine

Value: 20 % of Final Grade

Date: April 26, 2021

Description: Tests the student's knowledge of normal coagulation, the basics of blood banking, as well as the

approach to a patient presenting with bleeding or clotting abnormalities.

Question type may include: multiple choice, multiple choice multiple answer, fill in the blank,

true-false, short answer, matching, and extended written questions.

Quiz 3: Malignant Hematology

Value: 20 % of Final Grade

Date: April 30, 2021

Description: Tests the student's approach to the patient presenting with lymphadenopathy, splenomegaly,

or other findings suggestive of a hematologic malignancy.

Question type may include: multiple choice, multiple choice multiple answer, fill in the blank,

true-false, short answer, matching, and extended written questions.

# End of Module Exam

Value: 40% of Final Grade

Date: May 5, 2021

Description: A comprehensive exam of all the hematology module objectives.

Question type may include: multiple choice, multiple choice multiple answer, fill in the blank,

true-false, short answer, matching, and extended written questions.

# **COURSE EVALUATIONS QUALITY IMPROVEMENT**

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

- 1. Reformat small group cases to make more amenable to online delivery.
- 2. Continue to expand the workbook to include more practice questions.

#### IMPORTANT AND RELEVANT STUDENT INFORMATION

The following information is extremely important for your success in medical school. Please refer to the <a href="UME Policies">UME Policies</a> page and the <a href="Student Information Guide">Student Information Guide</a> for the following policies:

**UME 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 RPOVIDERS IN STUDENT ASSESSMENT

APPEALS PROCEDURES

STUDENT DISCRIMINATION, HARRASSMENT, AND MISTREATMENT PROCEDURE

**ACCOMMODATION OF STUDENTS WITH DISABILITIES** 

**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 syllabus<sup>1</sup>.

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 Educational Consultant 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,

<sup>&</sup>lt;sup>1</sup> Blackboard routinely updates their systems on certain Wednesday evenings. In the event that Blackboard is down for scheduled maintenance or due to technical difficulties, assignments are to be submitted by 0900 the following morning.

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 <a href="https://www.nlm.nih.gov/bsd/uniform\_requirements.html">www.nlm.nih.gov/bsd/uniform\_requirements.html</a>

## **RECORDING OF THE LECTURES**

Most lectures will be recorded and posted to the course Blackboard 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.

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 UME administrative coordinator for this course. More information on class recordings can be found in the Academic Courses Policy <a href="https://policies.usask.ca/policies/academic-affairs/academic-courses.php#5ClassRecordings">https://policies.usask.ca/policies/academic-affairs/academic-courses.php#5ClassRecordings</a>

#### **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, unless materials are designated as open education resources. 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 <a href="http://laws-lois.justice.gc.ca/eng/acts/C-42/index.html">http://laws-lois.justice.gc.ca/eng/acts/C-42/index.html</a>)

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 <a href="https://library.usask.ca/copyright/index.php">https://library.usask.ca/copyright/index.php</a> where there is information for students available at <a href="https://library.usask.ca/copyright/students/rights.php">https://library.usask.ca/copyright/students/rights.php</a>, or contact the University's Copyright Coordinator at <a href="mailto:copyright.coordinator@usask.ca">mailto:copyright.coordinator@usask.ca</a> or (306) 966-8817.

## INTEGRITY DEFINED (FROM THE OFFICE OF THE UNIVERSITY SECRETARY)

The University of Saskatchewan is committed to the highest standards of academic integrity and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Student Conduct & Appeals section of the University Secretary Website and avoid any behavior that could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

All students should read and be familiar with the Regulations on Academic Student Misconduct (www.usask.ca/secretariat/student-conduct-appeals/StudentAcademicMisconduct.pdf) as well as the Standard of Student Conduct in Non-Academic Matters and Procedures for Resolution of Complaints and Appeals (www.usask.ca/secretariat/student-conduct-appeals/StudentNon-AcademicMisconduct.pdf)

For more information on what academic integrity means for students see the Student Conduct & Appeals section of the University Secretary Website at:

www.usask.ca/secretariat/student-conduct-appeals/forms/IntegrityDefined.pdf

#### **INTEGRITY IN A REMOTE LEARNING CONTEXT**

Although the face of teaching and learning has changed due to covid-19, 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 and honesty. Students are expected to be familiar with these standards regarding academic honesty and to uphold the policies of the University in this respect. Students are particularly urged to familiarize themselves with the provisions of the Student Conduct & Appeals section of the University Secretary Website and avoid any behavior that could potentially result in suspicions of cheating, plagiarism, misrepresentation of facts and/or participation in an offence. Academic dishonesty is a serious offence and can result in suspension or expulsion from the University.

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For more information on what academic integrity means for students see the Academic Integrity section of the University Library Website at: <a href="https://library.usask.ca/academic-integrity#AboutAcademicIntegrity">https://library.usask.ca/academic-integrity#AboutAcademicIntegrity</a>

You 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 – <a href="https://library.usask.ca/academic-integrity.php#AcademicIntegrityTutorial">https://library.usask.ca/academic-integrity.php#AcademicIntegrityTutorial</a>

## **EXAMINATIONS WITH ACCESS AND EQUITY SERVICES (AES)**

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 the Student Affairs Coordinator at the Office of Student Affairs (OSA) for advice and referrals. In order to access AES programs and supports, students must follow AES policy and procedures. For more information, check <a href="https://www.students.usask.ca/aes">www.students.usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or contact AES at (306) 966-7273 or <a href="mailto:aes@usask.ca/aes">aes@usask.ca/aes</a>, or <a href=

Students registered with AES may request alternative arrangements for mid-term and final examinations.

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.

#### 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.

#### **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 <a href="mailto:bev.digout@usask.ca">bev.digout@usask.ca</a> or (306) 966-8224

Administrative Assistant, Chelsea Malkowich (Saskatoon) at chelsea.malkowich@usask.ca or (306) 966-7331

#### **STUDENT LEARNING SERVICES**

Student Learning Services (SLS) offers assistance to U of S undergrad and graduate students. For information on specific services, please see the SLS web site <a href="http://library.usask.ca/studentlearning/">http://library.usask.ca/studentlearning/</a>.

#### STUDENT AND ENROLMENT SERVICES DIVISION

The Student and Enrolment Services Division (SESD) focuses on providing developmental and support services and programs to students and the university community. For more information, see the students' website <a href="http://students.usask.ca">http://students.usask.ca</a>.

# **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 <a href="https://library.usask.ca/support/learning.php">https://library.usask.ca/support/learning.php</a>

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

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

Remote learning tutorial <a href="https://libguides.usask.ca/remote\_learning">https://libguides.usask.ca/remote\_learning</a>

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

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

https://students.usask.ca/study/remote-learning.phphttps://libguides.usask.ca/studyskills

## 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 <a href="http://students.usask.ca">http://students.usask.ca</a>.

#### **FINACIAL 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 (<a href="https://students.usask.ca/student-central.php">https://students.usask.ca/student-central.php</a>).

#### 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 (<a href="https://www.facebook.com/aboriginalstudentscentre/">https://www.facebook.com/aboriginalstudentscentre/</a>) 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 or updates.usask.ca for more information.

Remember, there are many supports available to help you thrive in the remote learning context.