MLSCI 430 – Advanced Hematology

Overview / General Information

This course in advanced topics in Hematology is a case-based course designed to integrate a number of areas of laboratory medicine however they are divided into groups of cases with an emphasis on transfusion medicine, morphologic hematopathology and coagulation.

Students will be provided with cases and some applicable references as well as case specific objectives, in advance. All students will be expected to obtain and review the recommended references. The students presenting the particular case will require additional references and/or input from preceptors to adequately cover the case material. The references provided are intended to supplement material available in standard texts and review articles and should not form the entire basis of information for the presentations.

Policy about course outlines can be found in Course Requirements, Evaluation Procedures and Grading of the University Calendar. [http://calendar.ualberta.ca/content.php?catoid=6&navoid=806#course-requirements,-evaluation-procedures-and-grading-a](http://calendar.ualberta.ca/content.php?catoid=6&navoid=806#course-requirements,-evaluation-procedures-and-grading-a)

The University of Alberta 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 Code of Student Behaviour (online at [www.governance.ualberta.ca](http://www.governance.ualberta.ca)) and avoid any behaviour which 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.

Audio or video recording, digital or otherwise, of lectures, labs, seminars or any other teaching environment by students is allowed only with the prior written consent of the instructor or as a part of an approved accommodation plan. Student or instructor content, digital or otherwise, created and/or used within the context of the course is to be used solely for personal study, and is not to be used or distributed for any other purpose without prior written consent from the content author(s).

Course Coordinator / Instructor(s)

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Additional preceptors will be asked to attend based on content expertise for various sessions.

Course Competencies

| A. | Develop and enhance presentation skills using appropriate tools and teaching aides. |
| B. | Gain an understanding of selected topics in hematology and an appreciation for the integration various areas of laboratory medicine in complex diagnoses. |
| C. | Enhance abilities in literature review and synthesis of information from multiple sources. |
| D. | Develop skills in reviewing and describing available methodologies for hematological laboratory tests. |
| E. | Develop skills in working as part of a team to contribute to a complex project. |

Case specific objectives will also be included in each case.
Methods of Instruction

This course is a case-based reading and presentation course. This year there are 12 weeks during which 20 cases will be presented by groups of 3 students per week. These groups will have some variability during the timeline of the course but have been structured such that the student is not presenting two weeks in a row.

The presentations will likely vary in length from case to case. They should ideally occupy approximately 30 minutes of class time. Depending on the format of the presentation some may be shorter and some longer. Variation of presentation style is encouraged. Pictures, slides, and other media should be used – at least some of the time. You may question the group during your presentation. In previous years, students have conducted interviews, quizzed the attendees and demonstrated tests (bearing in mind that this takes place in a classroom and biohazardous materials should not be transported to the class). The division of topics and labor between the presenting students is left to your own discretion.

Following each presentation a discussion period of approximately 10 minutes will be available for whole class discussion of each case. The preceptors may provide additional information and discussion of the provided references (and the presentation) will occur. This provides an opportunity to ensure that all students have a basic understanding of the topics covered and that the material presented was accurate. In addition each week will have a whole class laboratory scenario discussion as case 3# - each member of the class (not just the presenting group) is expected to participate and have done some preliminary work around that scenario. These scenarios are built on real life situations and will focus on building your skills in your approach to various aspects of laboratory management.

Presentations will be posted on the class web-site following the class, for reference by all participants. Preceptors will participate in this discussion and all students will be expected to have input into the discussion (hence pre reading of the references is critical). Students not involved in the presentation should be prepared to ask at least one question of the group or the preceptors following the presentations.

Distribution of Marks

- Participation in discussion and questions 10%
- Presentations 25%
- Midterm Examination 25%
  - based on the objectives of the first five sessions
- Final Examination 40%
  - cumulative, short answer and based on the objectives and readings but will be weighted more for the presentations from the remaining 6 session of the term

Attendance

Attendance is mandatory and is included in the 10% participation mark.