1. Technical Requirements:

- Stable internet connection
- Laptop or computer
- Working microphone
- Working webcam

Please Note: Due to uncertainty around COVID-19, students must have a reliable internet connection and computer that are compatible with online learning and testing system requirements.

Computer requirements include:

- Operating system: MAC: OSX Yosemite 10.10.5 or higher, PC: Windows 7, 8, or higher
- Processor/Ram: MAC: Intel / AMD Processor, 2 GB RAM, PC: Dual-core 2.4 Ghz CPU, 2 GB RAM or better
- Web Browsers: Mozilla Firefox v20.0 or Higher Google Chrome v25.0 or higher
- Plug-ins: Javascript Enabled & Third Party Cookies Enabled
- Camera resolution: 800 x 600 resolution or better
- Internet connection: Cable Modem, DSL or better (300 kbps download, 250 kbps upload)

2. Course Overview and Important Dates:

<table>
<thead>
<tr>
<th>Delivery Mode</th>
<th>Dates</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Asynchronous</td>
<td>January 11 - April 12</td>
<td>online</td>
</tr>
<tr>
<td>Synchronous live</td>
<td>January 12 – April 8</td>
<td>online</td>
</tr>
</tbody>
</table>

*Details about design and delivery of the course are listed below in Section 4

<table>
<thead>
<tr>
<th>Classes Start</th>
<th>Reading Weeks</th>
<th>Classes End</th>
<th>Study day(s)</th>
<th>Exam Period</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 11</td>
<td>Feb 15-19</td>
<td>April 12</td>
<td>No exam</td>
<td>No exam</td>
</tr>
</tbody>
</table>

*March 15, 2021: Last day to drop a second-term half course without academic penalty
3. Contact Information

<table>
<thead>
<tr>
<th>Course Coordinator and Instructor</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. John McGuire</td>
<td><a href="mailto:John.McGuire@schulich.uwo.ca">John.McGuire@schulich.uwo.ca</a></td>
</tr>
</tbody>
</table>

Office hours: via Zoom. Every Friday during the Winter Term. 9—11 am. Please send email with brief details for an appointment, which is normally scheduled first-come first-served for 10 minutes. Alternate times are accommodated as best possible.

<table>
<thead>
<tr>
<th>Instructor</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Krishna Singh</td>
<td><a href="mailto:Krishna.Singh@uwo.ca">Krishna.Singh@uwo.ca</a></td>
</tr>
<tr>
<td>Dr. Jefferson Frisbee</td>
<td><a href="mailto:jfrisbee@uwo.ca">jfrisbee@uwo.ca</a></td>
</tr>
<tr>
<td>Dr. Lisa Hoffman</td>
<td><a href="mailto:lhoffman@lawsonimaging.ca">lhoffman@lawsonimaging.ca</a></td>
</tr>
<tr>
<td>Dr. Neil Gelman</td>
<td><a href="mailto:ngelman@lawsonimaging.ca">ngelman@lawsonimaging.ca</a></td>
</tr>
<tr>
<td>Dr. Kathleen Surry</td>
<td><a href="mailto:Kathleen.surry@lhsc.on.ca">Kathleen.surry@lhsc.on.ca</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Teaching Assistant(s)</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joselia Carlos</td>
<td><a href="mailto:Jcarlos6@uwo.ca">Jcarlos6@uwo.ca</a></td>
</tr>
<tr>
<td>Andrea Wang</td>
<td><a href="mailto:Awang293@uwo.ca">Awang293@uwo.ca</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course and Program Assistant</th>
<th>Contact Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kathleen Petts</td>
<td><a href="mailto:askMBP@schulich.uwo.ca">askMBP@schulich.uwo.ca</a></td>
</tr>
</tbody>
</table>

Students may approach and discuss any course-related problems with the relevant instructor. To request an appointment with instructors (preferably via email) use the contact information provided above. Individual instructors may schedule the open office hours for specific times during the week.

4. Course Description and Design

Course summary

Case studies will highlight specific issues that medical biophysics covers while introducing important concepts and the multidisciplinary nature of research, professionals, and applications in the field. The key themes are cardiovascular and circulatory health, molecular imaging for research, diagnostic imaging in humans, cancer radiotherapy, and medical images processing.

Prerequisites

Prerequisite(s): Registration in Year 4 of an Honors degree that contains a module offered by the Department of Medical Biophysics or, with special permission, registration in Year 4 of a BESc degree or an Honors BHSc, BMSc or BSc degree.
Prerequisite checking – the student’s responsibility

Unless you have either the requisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

**Course Weight:** 0.5  
**Breadth:** Category C  
**Subject code:** MEDBIO

**Accessibility Statement**  
Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Student Accessibility Services at 519-661-2147 for any specific question regarding an accommodation.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous</td>
<td>Tues/Thurs</td>
<td>Tues: 9:30 AM - 10:30 AM, Thurs: 9:30 AM - 11:30 AM</td>
<td>weekly</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>3 hours</td>
<td>weekly</td>
</tr>
</tbody>
</table>

- Asynchronous pre-work must be completed prior to synchronous sessions
- Attendance at synchronous sessions is mandatory
- Students have access to all course materials, assignments, exams, and tutorials through OWL: [http://owl.uwo.ca](http://owl.uwo.ca). Any changes will be indicated on the OWL site and discussed with the class.
- If students need assistance, they can seek support on the OWL Help page. Alternatively, they can contact the Western Technology Services Helpdesk. They can be contacted by phone at 519-661-3800 or ext. 83800.
- Google Chrome or Mozilla Firefox are the preferred browsers to optimally use OWL.

5. **Course Syllabus**

**Teaching Rationale**

Online asynchronous and synchronous lessons present and review fundamental background for biophysics, including mathematics, physics, chemistry, biochemistry, pharmacology, medicine, genetics, engineering and or physiology, as needed to understand an important concept or theme in medical biophysics.

Basic and clinical research, clinical service, and other applied uses of medical biophysics are considered in the context of solving real life dilemmas (Case Studies). Online synchronous discussions are facilitated by instructors. Each Case Study illustrates an important concept or theme in medical biophysics.
The first part of each series of weekly lessons is weighted heavily on introducing foundational concepts, which may be a review for some and new for other students. This is necessary for establishing a common baseline and refresher that allows for discussions later in the week course.

The Case Studies are designed for students to apply their knowledge in order to come up with reasonable and viable solutions.

Instructors will moderate online synchronous discussion and debate, provide expert opinion/testimony and provide a debrief of a case when completed.

Students are encouraged to ask questions to learn about any course material covered in lessons throughout the term.

Students are expected to become familiar with all required course readings and course materials posted on OWL, review all lessons, attend and engage constructively in all scheduled classes and meetings, complete all assignments, and presentations. Students are encouraged to become familiar with recommended reading lists.

Case study is an experiential learning method that requires active participation and engagement in group discussions and activities. This engagement is evaluated. Attendance at all synchronous scheduled Tuesday and Thursday lessons as well as Group Case Study preparation meetings, and all Group final presentations is considered mandatory i.e. to have demonstrated full participation in the course.

The culmination of the learning using the case-study method will be the student group-led facilitation of an assigned Case. Students will engage regularly with an expert in the field in order to prepare for this case presentation.

Written assignments, and oral questions and answers discussions will be used to assess foundational knowledge and practice Case study learning methods throughout the course.

Course Learning Outcomes

Upon successful completion of this course, students will be able to:

- Generate hypotheses to test solutions for problems encountered in biophysics.
- Analyse and present Case studies in medical biophysics
- Design a plan that leads to recommendations on the course of action to take to address dilemmas from a variety of disciplinary fields and outlooks
- Explain foundational knowledge of experimental tools (e.g. MRI, CT, and Optical Imaging used to image biophysical, biochemical, and physiological processes in research and/or the clinic).
- Express evidence-based opinions in disciplinary discussions and reports
- Critically appraise the literature.
- Express evidence-based opinions in disciplinary discussions and reports.
- Work effectively in a team, to solve problems or to work with others toward a shared/academic goal as team member or team lead when appropriate.
### 6. Course Content and Schedule

<table>
<thead>
<tr>
<th>Week</th>
<th>2021 date</th>
<th>Instructor</th>
<th>Tuesday</th>
<th>Thursday</th>
<th>Assessment</th>
<th>Grade weighting %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Jan 11-15</td>
<td>McGuire and All who can attend</td>
<td>Introduction to course and meet the instructors</td>
<td>‘How to case study’ and ‘How to participate’</td>
<td>Mock participation grading</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Jan 18-22</td>
<td>McGuire</td>
<td>Blood pressure</td>
<td>Blood pressure case</td>
<td>Assignment 1</td>
<td>5</td>
</tr>
<tr>
<td>3</td>
<td>Jan 25-29</td>
<td>Krishna Singh</td>
<td>Circulating Biomarkers</td>
<td>Case: Application of biomarkers in human CVD</td>
<td>Assignment 2</td>
<td>2</td>
</tr>
<tr>
<td>4</td>
<td>Feb 1-5</td>
<td>Jeff Frisbee</td>
<td>Control of Vascular Resistance</td>
<td>Case: peripheral vascular disease</td>
<td>Assignment 3</td>
<td>2</td>
</tr>
<tr>
<td>5</td>
<td>Feb 8-12</td>
<td>Lisa Hoffman</td>
<td>PET imaging</td>
<td>Case: Imaging inflammatory markers in small animal research</td>
<td>Assignment 4</td>
<td>2</td>
</tr>
<tr>
<td>6</td>
<td>Feb 15-19</td>
<td>Family Day (Feb 15) and Spring Reading Week</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Feb 22-26</td>
<td>Kathleen Surry</td>
<td>Radiation therapy: dose and fractionation</td>
<td>Case: Radiation trade-offs for risk versus benefits</td>
<td>Assignment 5</td>
<td>2</td>
</tr>
</tbody>
</table>

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<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Instructor</th>
<th>Topic</th>
<th>Assignment(s)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Case study participation</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>Mar 8-12</td>
<td>Kathleen Surry</td>
<td>Radiation therapy: biological effective dose and re-treatment</td>
<td>Assignment 7</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Case study participation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Meeting 4</td>
<td>Student Case Study participation</td>
</tr>
<tr>
<td>10</td>
<td>Mar 15 – 19</td>
<td>Kathleen Surry</td>
<td>To be announced</td>
<td>Assignment 8</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Case study participation</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>Mar 22-26</td>
<td>Instructors</td>
<td>Case selected by students or assigned by faculty</td>
<td>Presentations (1, 2)</td>
<td>35 for group presenting; 5% as the audience participation in all student cases</td>
</tr>
<tr>
<td></td>
<td></td>
<td>and coordinator</td>
<td></td>
<td>Audience Case study participation</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Mar 29 - Apr. 1</td>
<td>Instructors and coordinator</td>
<td>Case selected by students or assigned by faculty</td>
<td>Presentations (3, 4)</td>
<td>Audience Case study participation</td>
</tr>
<tr>
<td></td>
<td>April 2 is University holiday (Good Friday)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>Apr. 5 - Apr 12</td>
<td>Instructors and coordinator</td>
<td>Case selected students or assigned by faculty</td>
<td>Presentations (5,6)</td>
<td>Audience Case study participation</td>
</tr>
<tr>
<td>14</td>
<td>April 13</td>
<td>University</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The instructors, themes and dates reflect the expected topics and sequence but are subject to change.
7. Evaluation

**MEDBIO 4700B**

<table>
<thead>
<tr>
<th>Component</th>
<th>Format</th>
<th>Due Dates</th>
<th>Grade Weight (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Case Study</td>
<td>Assignments</td>
<td>Weeks 2 to 11</td>
<td>19</td>
</tr>
<tr>
<td>Weeks 1 to 10</td>
<td>Engagement and participation (includes</td>
<td>Weeks 1 to 13</td>
<td></td>
</tr>
<tr>
<td></td>
<td>attendance) in weekly lessons, classes, and</td>
<td></td>
<td>31</td>
</tr>
<tr>
<td></td>
<td>student group presentations. Includes both</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Zoom and Forums</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Group Case prep</td>
<td>By assigned Case instructor(s)</td>
<td>Weeks 3, 5, 7, 9</td>
<td>15</td>
</tr>
<tr>
<td>meetings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student Group Case Study</td>
<td>Presentations by groups (includes</td>
<td>Weeks 11, 12, 13</td>
<td>35</td>
</tr>
<tr>
<td>Presentation</td>
<td>preparation of written materials and slides</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>and discussions</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Assignments**

- Each week is associated with a written Assignment.
- The instructors will inform students of the Assignment during the Tuesday Lesson period at the latest, it but may be released at an earlier date.
- All assignments are due on the Monday before 9:00 AM EST (London, Ontario) following the Week’s lessons unless otherwise specified.
- All student submissions are to be made through OWL unless directed otherwise.
- All files submitted by students shall be pdf format.
- Assignments will be submitted to Turnitin by the student.
- Students will have unlimited submissions to Turnitin prior to the due date.
- Assignments submitted after the class due date and time will be subject to an automatic late penalty of 10% that then increases by an additional 10% every 24 h period afterwards until 48 hours after the deadline.
- Assignments submitted after 48 hours following the assignment due date, or not submitted at all, will receive a zero grade and be returned ungraded.

**Note regarding Academic Consideration/Self-Reported Absences and submissions of Late assessments**

- The default due date for late assignments is 36 hours after the end of the approved reported absence period or in the case that your request is still being processed by Academic Counselling, 36 hours following your expected return to class (whichever event is earlier).
• If an accommodation is not granted by Academic Counselling or if the submission is late or deemed late according to documentation from Academic Counselling, then the same grade penalties will apply as the original assignment. Assignments will not be graded until the absence accommodation has been approved/disallowed by the appropriate process.

• Whether you have used Self-reported Absences or Student Academic Counselling, you will be advised that within 24 hours of the end of the reported absence period to contact (by email please) Dr. McGuire or the relevant Instructor to confirm you will be submitting late and when should expect it (see above). Please include 'Student Academic Consideration MEDBIO 4700B Assignment X' in the subject line. Submissions will be made through the course OWL site unless directed otherwise.

• Please be advised that you must follow all university procedures regarding the Self-reported Absences (SRA) or your SRA will be voided.

Evaluations and Feedback on Assignments

• Normally, individual feedback with grades are released after all current and previous assessments from the class have been graded or submitted for grading.

• After individual feedback on an assessment is returned, students should wait at least 24 hours to digest feedback before contacting the Teaching Assistants or instructor; to ensure a timely response, reach out within 7 days.

• Click here for a detailed and comprehensive set of policies and regulations concerning examinations and grading at Western.

• In MEDBIO 4700B, students will need to communicate scientific concepts, principles, and other content in an effective form that is appropriate for the discipline.

• Listed below are examples of summative feedback on the grading of student assignments in the context of this course.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Feedback</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>90-100</td>
<td>The written answer is excellent in all elements. Potential improvements are minimal. Congratulations.</td>
</tr>
<tr>
<td>A</td>
<td>80-89</td>
<td>The written answer excels in some components, but specific improvements to the writing quality, structure, content, and or synthesis are required for full marks.</td>
</tr>
<tr>
<td>B</td>
<td>70-79</td>
<td>The written answer is eminently satisfactory in many elements, but specific improvements to the writing quality, structure, content, and synthesis are required for full marks.</td>
</tr>
<tr>
<td>C</td>
<td>60-69</td>
<td>The written answer fulfills the technical requirements, demonstrates competency with the subject matter, but requires revisions, edits, additional content, and synthesis of material. Improvements to the writing quality, structure, content and logic are required for full marks.</td>
</tr>
</tbody>
</table>
### D 50-59
The written answer meets the minimum of technical requirements. Extensive revisions, edits, additional content, and synthesis of material are required. Improvements to the writing quality, structure, content and logic are required for full marks.

### F below 50
The written answer contains serious flaws in writing, logic, facts, structure, content, and or arguments.

## 8. Online Participation and Engagement

- Student attendance at synchronous live classes is mandatory. Attendance is essential to participation which is evaluated.
- Students are expected to participate and engage with content as much as possible.
- Students will be graded on the quality of their comments and knowledge of assigned reading material. Participation includes students’ willingness and ability to answer questions, respond to comments, and engage in case discussion activities, etc. Criteria used to assess participation include but are not limited to:
  - Did the student answer questions on the case?
  - Did the student demonstrate an understanding of biophysics and other related basic medical sciences concepts, theories, methods, and applications in the case?
  - Did the student tie the week’s case with concepts from previous cases and lectures?
  - Did the student constructively and critically add to class discussion (including commenting on comments made by others)?
  - Did the student knowledgably and critically discuss case?
  - Did the student use the cases to inform a discussion of current events and vice versa?
  - Was the student respectful of others and open to their ideas?
  - Did the student display a willingness to engage in activities?

### Note regarding Academic Consideration/Self-Reported Absences for Missed Classes

- Attendance at scheduled synchronous class is mandatory and essential to participation. The default grade for missing class is an assigned zero mark for participation unless there is an approved Academic Consideration.
- Normally academic accommodation for approved absences will be decided by the instructor on a case-by-case basis.

- Students are required to turn on and use the video camera and microphone audio in the Zoom call when directed by the instructor.
- Instructors will use the class list to identify all registered students in the classroom and breakout rooms (i.e. the official Zoom Call). Zoom Call server records each participant’s login, logout and call activity data, which
will be used for verification of attendance. Instructors(s) or other assigned individuals will evaluate the ability of each student to provide significant, meaningful, constructive and respectful contributions to classroom discussions during the lecture period and Case study. Instructors may also instruct students to post their answers to study questions on the Forum and or engage with material posted on the OWL Forum.

- Students should also participate asynchronously by interacting in the forums with their peers and instructor.
- Pay attention to the Lessons for each Week. Participation on the online Forums may be a required as part of the Assignments and or Participation Engagement activities for the week.

9. Communication:
- Students should check the Course Announcements, and the Forum for updates.
- You are advised to sign up for automatic notifications but this system is not a replacement for regularly checking the OWL website.
- Students will be notified of the availability of grades through OWL.
- This course will use Zoom for holding Lessons on Tuesday and Thursdays. It is accessed through OWL. Log on access for Lessons is restricted to users with uwo addresses.
- This course will use the Forum in OWL.
- Students should post all course-related content on the appropriate Forum so that answers to questions etc. are accessible to the whole class.
- Students can and are encouraged to post answers, comments, solutions etc. to other students’ questions.
- Anonymous postings will be permitted in some forums.
- The Forums will be monitored and used by the teaching assistants, Dr. McGuire, and instructors. Some Forum topics and threads may be moderated and/or graded.
- Students must use their official UWO account when communicating via email with Dr. McGuire, the other instructors and the teaching assistant(s).

Office Hours:
- E-mail Dr. McGuire or other instructor to request an appointment.
  o Please include ‘student appointment request MEDBIO 4700B’ in the subject line.
  o Please included your student number, and indicate your availability; normally 9 am-5 pm EST.
  o Dr. McGuire or your instructor will send a Zoom invite for confirmed appointments.
  o Individual instructors will let the class know if there are alternate or additional office hours.
10. Course Materials
All resources will be accessed through the OWL course website at
https://owl.uwo.ca/portal
Students with OWL issues should contact the Western Technology
Support at 519 661-3800

READ ABOUT THE FIRST TIME USING MEDBIO 4700B OWL Site
The first time students use the MEDBIO 4700B OWL site, they will be
required to complete the Academic Integrity task/assignment. Students
will not have full access to course materials until that task is completed.
Students will only have full access to the Schedule, Course Readings,
Lessons, Assignments and Forum, after submitting the Academic
Integrity documents.

Keep reading
• This course’s videos are hosted on Microsoft Stream which can
be accessed by all Western students. However, these videos are
restricted to the membership of the MEDBIO 4700B Winter 2021
group.
• After completing the Academic Integrity task (above), students
will be added to the Microsoft Stream Group MEDBIO 4700B
Winter 2021.
• Students will receive an email notifying them of being added to
the Microsoft Stream Group MEDBIO 4700B
• Students should allow for 1 day (members are added manually)
before inquiring about technical issues with access.
• Students will be removed from the Group at the end of the
course.
• Students will be able to view videos and transcripts, but not add
or edit content.
• Students will be required to enter their Western credentials to
access the links from OWL to some of the e-learning content.
Specific resources include Western Libraries, Microsoft Stream,
and Zoom.
• Logon credentials may be required every time students access
the linked resource unless they choose to have their devices
‘saves’ the information.
Course Readings
Course Readings will be accessible by logging into OWL, Course Readings or Western Libraries Electronic Reserves using a student Western account. A hard copy of the Cardiovascular Physiology textbook may be available for temporary loan through Library Reserves. Students can purchase their own licenses for the e-textbooks from the publisher or access them through the Course Readings and OWL.

Due to licensing restraints, there is a limit to the maximum number of users that can access simultaneously the AccessMedicine online textbooks versions of the Cardiovascular Physiology, and Pulmonary Physiology textbooks. Please be considerate of your classmates and remember to logoff after reading, downloading or printing the content for personal study.

Instructors will direct students to required reading selections from the following textbooks:


During the semester, instructors will also post additional required readings and may direct students to optional readings for their lessons or course materials posted on OWL.

Contact with Instructors regarding course materials:
Students may approach and discuss any course-related problems with the relevant instructor. Please make an appointment (preferably via email) utilizing the contact information provided above, unless directed by the instructor regarding office hours.

Collaborative work on Assignments:
Students are encouraged to work together, but each student shall take total responsibility for their own submitted work.

The default position is that each Weekly Assignment submission will be the work of an individual.
Each instructor will tell you whether the Weekly Assignments prepared as groups are acceptable.

Students will have to work together on a team assignment and thus, each student shall bear total responsibility for this submitted work, which means the creations and products of other members of the team member(s).

Peer-to-peer assessments will be used to inform instructors’ evaluations of each group member’s work on the Group Case Study.

Note on Plagiarism: “Students must write their essays and assignments in their own words. Whenever students take an idea, or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence” (see Scholastic Offence Policy in the Western Academic Calendar).

11. Professionalism & Privacy:

- Western students are expected to follow the Student Code of Conduct. Additionally, the following expectations and professional conduct apply to this course:
- Students are expected to follow online etiquette expectations provided on OWL and listed below in section 12.
- All course materials not already covered by copyright and thus, created by the instructor(s) are copyright © ‘name of instructor’ and the instructors of MEDBIO 4700B, and shall not be re-used, distributed without their specific permission.
- Respect the privacy and wishes of your instructors and classmates. Audio, and video recordings of tutorials by students are not permitted in this course.
- Synchronous lessons are for the purpose of the education of students registered in University of Western Ontario MEDBIO 4700B. Live sessions are not to be viewed by anyone but the students registered in this course. Any re-broadcasting of content by students is prohibited.
- Students may be asked to complete a pledge of Academic Integrity before some assessments, and the student shall abide by the pledge else suffer the penalty of Academic Misconduct.
12. Western Academic Policies and Statements

Some components of this course will involve online interactions. To ensure the best experience for both you and your classmates, please honour the following rules of etiquette:

- please “arrive” to class on time
- please use your computer and/or laptop if possible (as opposed to a cell phone or tablet)
- ensure that you are in a private location to protect the confidentiality of discussions in the event that a class discussion deals with sensitive or personal material
- to minimize background noise, kindly mute your microphone for the entire class until you are invited to speak, unless directed otherwise
- In order to give us optimum bandwidth and web quality, depending on the number of participants on a call, you may be asked to turn off your video camera unless you are invited to speak.
- When in breakout rooms, please leave your video camera on.
- Please be prepared to turn your video camera off at the instructor’s request if the internet connection becomes unstable
- unless invited by your instructor, do not share your screen in the meeting

Your instructors will act as moderators for the class and will deal with any questions from participants. To participate please consider the following:

- if you wish to speak, use the “raise hand” function and wait for the instructor to acknowledge you before beginning your comment or question.
- You can also raise your hand if video is turned on 😊!
- remember to unmute your microphone and turn on your video camera before speaking
- self-identify when speaking.
- remember to mute your mic and turn off your video camera after speaking (unless directed otherwise)
- Some functions of Zoom are under the control of moderators in order to assure security and privacy. For example, screen sharing may be enabled on case-by-case situation.

General considerations of “netiquette”:

- Keep in mind the different cultural and linguistic backgrounds of the students in the course.
- Be courteous toward the instructor, your colleagues, and authors whose work you are discussing.
- Be respectful of the diversity of viewpoints that you will encounter in the class and in your readings. The exchange of diverse ideas and opinions is part of the scholarly environment. “Flaming” is never appropriate.
- Be professional and scholarly in all online postings. Cite the ideas of others appropriately.
Note that disruptive behaviour of any type during online classes, including inappropriate use of the chat function, is unacceptable. Students found guilty of Zoom-bombing a class or of other serious online offenses may be subject to disciplinary measures under the Code of Student Conduct.

**Accommodation Policies**
Students with disabilities work with Accessible Education (formerly SSD) which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The accommodation policy can be found here: [Academic Accommodation for Students with Disabilities](#).

**Academic Consideration for Student Absence**
Students will have up to two (2) opportunities during the regular academic year to use an on-line portal to self-report an absence during the term, provided the following conditions are met: the absence is no more than 48 hours in duration, and the assessment for which consideration is being sought is worth 30% or less of the student’s final grade. Students are expected to contact their instructors within 24 hours of the end of the period of the self-reported absence, unless noted on the syllabus. Students are not able to use the self-reporting option in the following circumstances:

- for exams scheduled by the Office of the Registrar (e.g., December and April exams)
- absence of a duration greater than 48 hours,
- assessments worth more than 30% of the student's final grade,
- if a student has already used the self-reporting portal twice during the academic year

If the conditions for a Self-Reported Absence are not met, students will need to provide a Student Medical Certificate if the absence is medical, or provide appropriate documentation if there are compassionate grounds for the absence in question. Students are encouraged to contact their Faculty academic counselling office to obtain more information about the relevant documentation.

Students should also note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. **All documentation required for absences that are not covered by the Self-Reported Absence Policy must be submitted to the Academic Counselling office of a student's Home Faculty.**

For Western University policy on Consideration for Student Absence, see [Policy on Academic Consideration for Student Absences - Undergraduate Students in First Entry Programs](#), and for the Student Medical Certificate (SMC), see: [http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).
For a downloadable student medical certificate see:
http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf

Students seeking academic accommodation on illness grounds for any missed tests, exams, participation components and/or assignments worth 10% or more of their final grade must apply to the Academic Counselling office of their home Faculty and provide documentation. The instructor or department cannot grant academic accommodation.

**Accommodation for Religious Holidays**

The policy on Accommodation for Religious Holidays can be viewed [here](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

Students should consult the University’s list of recognized religious holidays, and should give reasonable notice in writing, prior to the holiday, to the Instructor and an Academic Counsellor if their course requirements will be affected by a religious observance. Additional information is given in the [Western Multicultural Calendar](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

**Special Examinations**

A Special Examination is any examination other than the regular examination, and it may be offered only with the permission of the Dean of the Faculty in which the student is registered, in consultation with the instructor and Department Chair. Permission to write a Special Examination may be given on the basis of compassionate or medical grounds with appropriate supporting documents. To provide an opportunity for students to recover from the circumstances resulting in a Special Examination, the University has implemented Special Examinations dates. These dates as well as other important information about examinations and academic standing can be found [here](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

A Special Examination must be written at the University or an Affiliated University College no later than 30 days after the end of the examination period involved. To accommodate unusual circumstances, a date later than this may be arranged at the time permission is first given by the Dean of the Faculty. The Dean will consult with the instructor and Department Chair and, if a later date is arranged, will communicate this to Registrarial Services. If a student fails to write a scheduled Special Examination, permission to write another Special Examination will be granted only with the permission of the Dean in exceptional circumstances and with appropriate supporting documents. In such a case, the date of this Special Examination normally will be the scheduled date for the final exam the next time the course is offered.

**Statement on Academic Offenses**

“Scholastic offences are taken seriously, and undergraduate students are directed [here](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf) to read the appropriate policy, specifically, the definition of what constitutes a...
Scholastic Offence. Graduate students are directed here
http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_grad.pdf

Accessibility Statement
Please contact the course instructor if you require material in an alternate format or if you require any other arrangements to make this course more accessible to you. You may also wish to contact Accessible Education (AE) at 661-2111 x 82147 for any specific question regarding an accommodation or review The policy on Accommodation for Students with Disabilities.

Correspondence Statement
The centrally administered e-mail account provided to students will be considered the individual’s official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner. You can read about the privacy and security of the uwo email accounts here.

Turnitin and other similarity review software
All assignments will be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. Students will be able to view their results before the final submission. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between Western University and Turnitin.com.

All of the remote learning sessions for this course will be recorded.
The data captured during these recordings may include your image, voice recordings, chat logs and personal identifiers (name displayed on the screen). The recordings will be used for educational purposes related to this course, including evaluations. The recordings may be disclosed to other individuals under special circumstances. Please contact the instructor if you have any concerns related to session recordings.

Participants in this course are not permitted to record the sessions, except where recording is an approved accommodation, or the participant has the prior written permission of the instructor.

13. BMSUE Academic Policies and Statements

Cell Phone and Electronic Device Policy (for in-person tests and exams)
The Schulich School of Medicine & Dentistry is committed to ensuring that testing and evaluation are undertaken fairly across all our departments and programs. For all tests and exams, it is the policy of the School that any electronic devices, i.e., cell phones, tablets, cameras, or iPod are strictly prohibited. These devices MUST be left either at home or with the student’s bag/jacket at the front of the room and MUST NOT be at the test/exam desk or in the individual’s pocket. Any student found with one of these prohibited devices will receive a grade of zero on the test or exam. Non-programmable calculators are only allowed when indicated by the instructor. The program is not responsible for stolen/lost or broken devices.

**Copyright and Audio/Video Recording Statement**

Note that MEDBIO 3501A does not allow for students to make audio/video recordings of group sessions such as Tutorials. This policy is in place to so that synchronous live sessions take place in a safe environment that encourages participation from all students.

Course material produced by faculty is copyrighted and to reproduce this material for any purposes other than your own educational use contravenes Canadian Copyright Laws. Other courses may allow recording, but you must always ask permission (consent) to record another individual and you should never share or distribute recordings.

**Rounding of Marks Statement**

Across the Basic Medical Sciences Undergraduate Education programs, we strive to maintain high standards that reflect the effort that both students and faculty put into the teaching and learning experience during this course. All students will be treated equally and evaluated based only on their actual achievement. Final grades on this course, irrespective of the number of decimal places used in marking individual assignments and tests, will be calculated to one decimal place and rounded to the nearest integer, e.g., 74.4 becomes 74, and 74.5 becomes 75. Marks WILL NOT be bumped to the next grade or GPA, e.g. a 79 will NOT be bumped up to an 80, an 84 WILL NOT be bumped up to an 85, etc. The mark attained is the mark you achieved, and the mark assigned; requests for mark “bumping” will be denied.

**14. Support Services**

The following links provide information about support services at Western University.
- Office of the Registrar
- Academic Counselling (Science and Basic Medical Sciences)
- Appeal Procedures
- Student Centre [http://student.uwo.ca](http://student.uwo.ca)
- Student Development Services

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Health and Wellness

USC Student Support Services

Students that are in emotional/mental distress should refer to Student Health Care [https://www.uwo.ca/health/shs/index.html](https://www.uwo.ca/health/shs/index.html) for a complete list of options about how to obtain help.