Microbiology & Immunology
MICROIMM 2500A/B—Biology of Infection & Immunity

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructors:  Dr. Kelly Summers
              Dr. John McCormick
              Dr. Jimmy Dikeakos

Email:  ksummers@uwo.ca,
        jimmy.dikeakos@uwo.ca,
        john.mccomick@uwo.ca

Course description
The official course description can be found in the Academic Calendar. Instructors may or may not adhere to the Extra Information found in the Academic Calendar in terms of the number of lecture/tutorial/lab hours. See below for more information about course delivery mode and time estimates. These time estimates do not include assessments or independent study.

Required:

- Stable internet connection
- Laptop or computer
- Working microphone (optional)
- Working webcam (optional)

Delivery mode:
This course will be delivered completely online. Virtual sessions may be a combination of synchronous (live) and asynchronous (recorded). Timetabled sessions could be used for tests/exam, review sessions and instructor/GTA office hours. Tests/final exam may be held in class for students residing in/near London. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>M/W/F</td>
<td>2500A; 9:30-10:20, 2500B; 11:30-12:20</td>
<td>--</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Tests/final exam ***</td>
<td></td>
<td>--</td>
<td>--</td>
<td>Optional</td>
</tr>
<tr>
<td>Review Sessions</td>
<td></td>
<td></td>
<td>As scheduled</td>
<td>Optional</td>
</tr>
<tr>
<td>Instructor/TA hours</td>
<td></td>
<td></td>
<td>As scheduled</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Weekly</td>
<td></td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Lectures</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In Person ***</td>
<td>M/W/F</td>
<td>2500A; 9:30-10:20, 2500B; 11:30-12:20</td>
<td>As scheduled</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Tests/final exam</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[*Virtual synchronous sessions will be recorded for later viewing]*
[**A schedule will be posted]*
[*** Will be held in class for students residing in/near London, if allowed]
**Assessments:**

Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

<table>
<thead>
<tr>
<th>Weekly quizzes</th>
<th>Participation</th>
<th>Take home tests/exams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Written assignments</td>
<td>Discussion forums</td>
<td>Timed tests/exams</td>
</tr>
<tr>
<td>Oral presentations</td>
<td>Groupwork</td>
<td>Proctored tests/exams</td>
</tr>
<tr>
<td>Other:</td>
<td>Other:</td>
<td>Other Assessments TBD</td>
</tr>
</tbody>
</table>
Microbiology & Immunology
MICROIMM 3100A—Microbiology

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructor: Creuzenet / Barr  
Email: ccreuzen@uwo.ca; sbarr9@uwo.ca

Course description
The official course description can be found in the Academic Calendar. Instructors may or may not adhere to the Extra Information found in the Academic Calendar in terms of the number of lecture/tutorial/lab hours. See below for more information about course delivery mode and time estimates. These time estimates do not include assessments or independent study.

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

Delivery mode: This course will be delivered completely online. Virtual sessions will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>M/W/F</td>
<td>1.30-2.20</td>
<td>[weekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>M/W/F</td>
<td>1.30-2.20</td>
<td>[weekly]</td>
<td>N/A</td>
</tr>
</tbody>
</table>

[*Virtual synchronous sessions will be recorded for later viewing]
[**A schedule will be posted]

Assessments: Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

Weekly quizzes  
Written assignments  
Oral presentations  
Other:

Participation  
Discussion forums  
Groupwork  
Other:

Take home tests/exams  
Timed tests/exams  
Proctored tests/exams  
Other:
Microbiology & Immunology
MICROIMM 3300B—Immunology

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructor: Steven Kerfoot
Email: skerfoot@uwo.ca

Course description:
The official course description can be found in the Academic Calendar. Instructors may or may not adhere to the Extra Information found in the Academic Calendar in terms of the number of lecture/tutorial/lab hours. See below for more information about course delivery mode and time estimates. These time estimates do not include assessments or independent study.

Required:

- Stable internet connection
- Laptop or computer
- Working microphone (optional)
- Working webcam (optional)

Delivery mode:
This course will be delivered completely online. Virtual sessions will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>M/W/F</td>
<td>9:30-10:20</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous*</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

[*Virtual synchronous sessions will be recorded for later viewing]
[**A schedule will be posted]

Assessments:
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

Weekly quizzes
Written assignments
Oral presentations
Other:

Participation
Discussion forums
Groupwork
Other:

Take home tests/exams
Timed tests/exams
Proctored tests/exams
Other:
Microbiology & Immunology  
MICROIMM 3500B—Biological & Social Determinants of Infectious Disease

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructors:  
Dr. Ryan Troyer and Dr. Eric Arts  
Email:  
rtroyer@uwo.ca and earts@uwo.ca

Course description  
A trans-disciplinary approach to examine the introduction, spread and ecological impact of infectious diseases; the underlying biological and social determinants of infectious diseases with an emphasis on the effects of environment and socio-economic status; lessons learned from global pandemics; treatment/prevention of infectious diseases and challenges with implementation in under-resourced communities.

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

Delivery mode:  
This course will be delivered completely online. Virtual sessions will be largely synchronous (live) with occasional asynchronous (recorded) components. Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency*</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous</td>
<td>M/W/F</td>
<td>8:30-9:20 am</td>
<td>weekly</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*An schedule will be posted

Assessments:  
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

- Weekly quizzes
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

**Instructor:** Bryan Heit  
**Email:** bheit@uwo.ca

**Course description**
The official course description can be found in the [Academic Calendar](#). Instructors may or may not adhere to the Extra Information found in the Academic Calendar in terms of the number of lecture/tutorial/lab hours. See below for more information about course delivery mode and time estimates. These time estimates do not include assessments or independent study.

**Required:**
- Stable internet connection
- Laptop or computer
- Working microphone *(optional)*
- Working webcam *(optional)*

**Delivery mode:**
This course will be delivered completely online. Virtual sessions will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>T</td>
<td>1:30-2:20</td>
<td>Weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>T or W</td>
<td>2:30-5:30</td>
<td>Weekly</td>
<td>N/A</td>
</tr>
</tbody>
</table>

[*Virtual synchronous sessions will be recorded for later viewing*]  
[**A schedule will be posted*]

**Assessments:**
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

- **Weekly quizzes**
- **Written assignments**
- Oral presentations
- Other:
- Participation
- Discussion forums
- Groupwork
- Other:
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Microbiology & Immunology
MICROIMM 3620G—Immunology Laboratory

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructors: Dr. Kelly Summers  
Dr. Sung Kim  

Email: ksummers@uwo.ca  
skim283@uwo.ca

Course description
The official course description can be found in the Academic Calendar. Instructors may or may not adhere to the Extra Information found in the Academic Calendar in terms of the number of lecture/tutorial/lab hours. See below for more information about course delivery mode and time estimates. These time estimates do not include assessments or independent study.

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

Delivery mode:
This course will be delivered online, however, we are planning to offer optional in person labs pending physical distancing regulations if possible***. Virtual sessions will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete some work prior to attending sessions. Timetabled sessions could be used for pre-lab talks, labs, groupwork, instructor/GTA office hours, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>T</td>
<td>1:30-2:20</td>
<td>Weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>M/T/W</td>
<td>N/A</td>
<td>Weekly</td>
<td>N/A</td>
</tr>
<tr>
<td>In person labs***</td>
<td>M/T/W</td>
<td>2:30-5:20</td>
<td>As scheduled</td>
<td>Optional</td>
</tr>
</tbody>
</table>

[*Virtual synchronous sessions will be recorded for later viewing]
[**A schedule will be posted]

Assessments:
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

- Online Quizzes
- Written assignments
- Oral presentations
- Lab Notebook
- Lay Summary
- Participation
- Discussion forums
- Groupwork
- Peer Review
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Lab Reports
Microbiology & Immunology
MICROIMM 4100A—Bacterial Pathogenesis

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructor: Heinrichs, David

Email: deh@uwo.ca

Course description
A course offering an integrated view of bacterial pathogenesis mechanisms. Topics focus mainly on medically important bacterial pathogens, with an emphasis on how they cause disease and the host’s immune defense mechanisms to these infectious microbes.

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

Delivery mode:
This course will have in person lectures that will also be delivered live via zoom and be recorded for asynchronous viewing. Virtual sessions will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>In person</td>
<td>M/W/F</td>
<td>10:30-11:20</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>M/W/F</td>
<td>10:30-11:20</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

[*Virtual synchronous sessions will be recorded for later viewing]
[**A schedule will be posted]

Assessments:
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

Weekly quizzes
Written assignments
Oral presentations
Other:

Participation
Discussion forums
Groupwork
Other:

Take home tests/exams
Timed tests/exams
Proctored tests/exams
Other:
Microbiology & Immunology
MICROIMM 4200B—Molecular Virology

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructor: Drs. Greg Dekaban, Marco Prado and Joe Mymryk
Email: jmymryk@uwo.ca; dekaban@robarts.camprado@robarts.ca

Course description
The official course description can be found in the Academic Calendar. Instructors may or may not adhere to the Extra Information found in the Academic Calendar in terms of the number of lecture/tutorial/lab hours. See below for more information about course delivery mode and time estimates. These time estimates do not include assessments or independent study.

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

Delivery mode:
This course will have in person components. Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>In person</td>
<td>T, Th</td>
<td>8:30-10:20 am</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>T, Th</td>
<td>8:30-10:20 am</td>
<td>weekly</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Virtual synchronous sessions only if enforced by Western
**A schedule will be posted

Assessments:
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

- Weekly quizzes
- Written assignments
- Oral presentations
- Participation
- Discussion forums
- Groupwork
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
- Other:
Microbiology & Immunology  
MICROIMM 4300A—Clinical Immunology

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructor: Dr. Mansour Haeryfar  
Email: Mansour.Haeryfar@schulich.uwo.ca

Course description
This course covers advanced concepts on cellular and molecular regulation of the immune system and their application to clinical conditions including autoimmune diseases, allergic diseases, transplantation, and cancer. Recent advances and challenges in immunotherapeutics, immunology research, and immune mechanisms are highlighted.

Required:

- Stable internet connection
- Laptop or computer

Delivery mode:
This course will be delivered in-person. Students could be expected to complete two written assignments before their corresponding deadlines. Timetabled sessions could be used for lectures, tutorials, discussions, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency*</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>In person</td>
<td>M/W/F</td>
<td>9:30 – 10:30 AM</td>
<td>weekly</td>
<td>Yes</td>
</tr>
</tbody>
</table>

[*A schedule will be posted]

Assessments:
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

- Weekly quizzes
- Written assignments
- Oral presentations
- Other:

- Participation
- Discussion forums
- Groupwork
- Other:

- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Microbiology & Immunology
MICROIMM 4750G—Infectious Disease Bioinformatics

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructor: Art Poon  Email: apoon42@uwo.ca

Course description
The official course description can be found in the Academic Calendar. Instructors may or may not adhere to the Extra Information found in the Academic Calendar in terms of the number of lecture/tutorial/lab hours. See below for more information about course delivery mode and time estimates. These time estimates do not include assessments or independent study.

Required:
- Stable internet connection
- Laptop or computer
- Working microphone
- Working webcam (optional)

Delivery mode:
This course will be delivered completely online. Virtual sessions will be synchronous (live). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time**</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>M/W/F</td>
<td>TBD</td>
<td>weekly</td>
<td>Required</td>
</tr>
</tbody>
</table>

[*Virtual synchronous sessions will be recorded for later viewing]
[**A schedule will be posted]

Assessments:
Examples of assessments that could be assigned in this course are highlighted in yellow; these examples are based on previous offerings of the course and the learning outcomes that have been set.

- Weekly quizzes
- Written assignments
- Oral presentations
- Other:

- Participation
- Discussion forums
- Groupwork
- Other:

- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Microbiology & Immunology
MICROIMM 4970E—Research Project & Seminar

This course overview has been created to communicate expectations for 2020/2021 courses offered by the basic medical science departments to help you plan your semesters. This is a draft and final details will be reflected in the syllabus closer to the start date of the course. Refer to previous course syllabi for learning outcomes.

Instructor: Rodney DeKoter, PhD  
Email: rdekoter@uwo.ca

Course description
The project course is the core of our honors modules. As a course, it is first and foremost a guided educational program in which students work on an independent research project under the mentorship of a faculty supervisor and other lab members. The goal of the course is to give students the opportunity to participate in science, rather than simply consume it.

Extra Information: Up to 15 hours per week  
Course Weight: 1.5 credits

Required:

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

Delivery mode:
This course will have in person components and online components. Virtual sessions will be a combination of synchronous (live) and asynchronous (recorded). Students will be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, tutorials, discussions, groupwork, etc. Below are details about the sessions.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>In person</td>
<td>M/T/W/Th/F</td>
<td>3 hours</td>
<td>daily</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>TBD</td>
<td>variable</td>
<td>selected sessions</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Virtual asynchronous
1) Interviews to match with supervisor
2) Laboratory safety training

**Virtual synchronous sessions will be recorded for later viewing**
**A schedule will be posted**

### Assessments:

<table>
<thead>
<tr>
<th>Component</th>
<th>% of final grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Oral Presentation</td>
<td>8%</td>
</tr>
<tr>
<td>First Written Report</td>
<td>10%</td>
</tr>
<tr>
<td>Final Written Report</td>
<td>50%</td>
</tr>
<tr>
<td>Second Oral Presentation</td>
<td>12%</td>
</tr>
<tr>
<td>Final Performance Evaluation</td>
<td>20%</td>
</tr>
</tbody>
</table>