Physiology & Pharmacology
PHARM 2060B—Introduction Pharmacology & Therapeutics

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. Samantha Medwid
Email: smedwid@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 webcam

Delivery mode:
This course will be delivered completely online. Virtual sessions will be asynchronous (recorded). Students could be expected to complete work prior to attending sessions. 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 asynchronous</td>
<td>N/A</td>
<td>weekly</td>
<td>N/A</td>
<td></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: Online Quizzes
Participation
Discussion forums
Groupwork
Other:
Take home tests/exams
Timed tests/exams
Proctored tests/exams
Other:
Physiology & Pharmacology
PHARM 3620—Human Pharmacology & Therapeutic Principles

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Instructor: Dr. Nica Borradaile  
Email: nica.borradaile@schulich.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 webcam

Delivery mode:
This course will be delivered completely online. Virtual sessions will be asynchronous (recorded). Students could be expected to complete work prior to attending sessions.

<table>
<thead>
<tr>
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<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2 hours</td>
<td>weekly</td>
<td>N/A</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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other: Midterm quizzes
- Other:
- Other:
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Instructor:  Dr. Rennian Wang  
Dr. Nica Borradaile  

Email: rwang@uwo.ca  
nica.borradaile@schulich.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, and 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>Feb. 8, Mar. 9</td>
<td>1h, 3h</td>
<td>two sessions</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2h</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  
- Participation  
- Take home tests/exams  
- Written assignments  
- Discussion forums  
- Timed tests/exams  
- Oral presentations  
- Groupwork  
- Proctored tests/exams  
- Other:

Other:
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. Qingping Feng  
**Email:** qfeng@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.

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<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>Tuesdays</td>
<td>10:00-11:30</td>
<td>[weekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>[hours]</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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other:
Physiology & Pharmacology
PHARM 4350A—Clinical Pharmacology

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Instructor: Dr. Rommel Tirona
Email: rommel.tirona@schulich.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 synchronous (live) or 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.

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<thead>
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<th>Mode</th>
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<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>W</td>
<td>12:30-2:30</td>
<td>Single Occurrence</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>W</td>
<td>12:30-2:30</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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other:
- Other:
- Other:
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. Lina Dagnino  Email: ldagnino@uwo.ca
       Dr. John Di Guglielmo  john.diguglielmo@schulich.uwo.ca

Course description
This course is designed to give students a basic understanding of the molecular pharmacology and therapeutic properties of anticancer agents. The focus is on molecular mechanisms of cancer chemotherapy, and will include drug resistance and the roles of receptor kinases and G protein-coupled receptors in existing and novel cancer therapies.

Required:
The following technologies are required for participation:

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

Delivery mode:
This course will be delivered completely online. Virtual sessions will have a combination of synchronous (live) and asynchronous (recorded) delivery. 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.

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<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>Wednesdays</td>
<td>10:30</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2</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
- Participation
- Written assignments
- Discussion forums
- Oral presentations
- Groupwork
- Other: Take home tests/exams
- Other: Timed tests/exams
- Other: Proctored tests/exams

Other:
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. Peter Chidiac            Email: pchidiac@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.

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<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>Tuesdays</td>
<td>9:30-11:30</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>1-2 hours</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:
Physiology & Pharmacology
PHARM 4380B—Neuropharmacology

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:  Vania Prado  
              Taylor Schmitz  

Email:  vprado@uwo.ca  
        tschmitz@uwo.ca  

Course description
This course will focus on the cellular and molecular mechanisms underlying the actions of drugs on the central nervous system. The focus will be on recent developments in the field of neuroscience and how these new findings can help on the treatment of neurodegenerative diseases.

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

Delivery mode: Blended
This course will have in person and online components. 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.

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<thead>
<tr>
<th>Mode</th>
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<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>In person</td>
<td>Tuesday</td>
<td>12:30-2:30</td>
<td>Weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>Tuesday</td>
<td>12:30-2:30</td>
<td>Weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>12:30-2:30</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  
- Participation  
- Discussion forums  
- Groupwork  
- Take home tests/exams  
- Timed tests/exams  
- Proctored tests/exams  
- Other:  
- Other:  
- Other:
Physiology & Pharmacology
PHARM 4620A—Molecular & Structural Basis of Drug Actions

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Instructor: Dr. Rithwik Ramachandran (course co-ordinator)  
Dr. Peter Stathopulos  
Email: rramach@uwo.ca  
pstatho@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.

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<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual synchronous*</td>
<td>Tuesdays</td>
<td>2.30</td>
<td>[weekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>[hours]</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: Video presentations  
Participation  
Discussion forums  
Groupwork  
Other:  
Take home tests/exams  
Timed tests/exams  
Proctored tests/exams  
Other:
Physiology & Pharmacology
PHARM 4660A—Human Toxicology

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Instructor: Dr. Ute Schwarz
Email: uschwarz@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.

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<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>Monday</td>
<td>4:00 – 4:30</td>
<td>[weekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>80 min</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
- Participation
- Written assignments
- Discussion forums
- Oral presentations
- Groupwork
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Physiology & Pharmacology
PHYSIOL 1020—Human Physiology

Instructor: Dr. Christine Bell
Email: christine.bell@uwo.ca

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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 tutorials and discussions. 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>Wednesdays</td>
<td>9-10 AM, 10-11 AM, 4:30-5:30 PM, 5:30-6:30 PM</td>
<td>Weekly, Weekly</td>
<td>Yes, Yes</td>
</tr>
<tr>
<td></td>
<td>Thursdays</td>
<td>9-10 AM, 10-11 AM, 4:30-5:30 PM, 5:30-6:30 PM</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>3-5 hours a week</td>
<td>A schedule will be posted</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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
Physiology & Pharmacology
PHYSIOL 1021—Introduction to Human Physiology

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. Angela Beye
Email: abeye2@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.

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<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 or W or Th: depends on tutorial section selected</td>
<td>[1 hr]</td>
<td>[weekly]</td>
<td>Optional but strongly recommended</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>[2 hrs]</td>
<td>[weekly]</td>
<td>N/A</td>
</tr>
</tbody>
</table>

[*Parts of 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: Regular quizzes
- Participation
- Discussion forums
- Groupwork
- Other: Weekly check point questions
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
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Instructor: Dr. Christine Bell  
Email: christine.bell@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 asynchronous (recorded).

<table>
<thead>
<tr>
<th>Mode</th>
<th>Dates</th>
<th>Time</th>
<th>Frequency**</th>
<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>3-5 hours</td>
<td>Weekly/ schedule will be posted</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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:
Physiology & Pharmacology
PHYSIOL 3120—Human Physiology

Instructor: Tom Stavraky  
Email: Tom.stavraky@schulich.uwo.ca

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.

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 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 asynchronous</td>
<td>N/A</td>
<td>3 hours</td>
<td>weekly</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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: Online quizzes
- Participation
- Discussion forums
- Groupwork
- Other:
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other: Proctored online test/exams
Instructor: John Di Guglielmo  
Email: John.diguglielmo@schulich.uwo.ca

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.

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 tutorials) and asynchronous (recorded lectures). 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 asynchronous lectures</td>
<td>M/W/F</td>
<td>Prior to tutorials</td>
<td>weekly</td>
<td>N/A</td>
</tr>
<tr>
<td>Virtual synchronous* tutorials</td>
<td>M/W/F</td>
<td>9:30-10:30</td>
<td>weekly</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.

- Weekly quizzes
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed quizzes
- Oral presentations
- Groupwork
- Proctored tests/exams
- Exams: In person
- Other:
- Other:
Physiology & Pharmacology

PHYSIOL 4100B—Digestion, Metabolism and Metabolic 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.

Instructor: Dr. Rennian Wang
Dr. Nica Borradaile

Email: rwang@uwo.ca
nica.borradaile@schulich.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, and 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>Feb. 8, Mar. 9</td>
<td>1h, 3h</td>
<td>two sessions</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2h</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
- Participation
- Discussion forums
- Oral presentations
- Groupwork
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Physiology & Pharmacology
PHYSIOL 4200B—Respiratory Health & 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.

Instructor: Dr. Ruud Veldhuizen
Email: rveldhui@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: BLENDED Format
This course will have in person components. 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>Tuesdays</td>
<td>9:30 AM</td>
<td>Weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous (times not in person)</td>
<td>Tuesdays</td>
<td>9:30 AM</td>
<td>Weekly (some scheduled times)</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>1-2 hours</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
- Participation
- Discussion forums
- Groupwork
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams

Physiology & Pharmacology

PHYSIOL 4510A

Understanding Pluripotency: The physiology of stem cell fate and function

Instructors: Dr. Dean H. Betts, Dr. Cheryle A. Séguin

Email: dean.betts@schulich.uwo.ca, cheryle.seguin@schulich.uwo.ca

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.

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 and will also be delivered online. Virtual sessions will be a combination of synchronous (live modules/exercises) and asynchronous (recorded lectures). 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 active learning modules/exercises</td>
<td>Thursdays</td>
<td>2:30-4:20</td>
<td>Weekly#</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous* active learning modules/exercises</td>
<td>Thursdays</td>
<td>2:30-4:20</td>
<td>Weekly#</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous lectures</td>
<td>N/A</td>
<td>1-1.5 hours</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
#We will have a mix of weekly in person and/or virtual active learning modules/exercises that could be moved entirely online if required

Assessments:
Examples of assessments that could be assigned in this course are listed below; 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
Physiology & Pharmacology
PHYSIOL 4520B—Stem Cells & Regenerative Medicine

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. David A. Hess
Email: dhess@robarts.ca

Course description
Central concepts in regenerative medicine are explored, with a focus on the preclinical development of stem cell therapies. Emphasized are: fundamentals of tissue-specific (post-natal) stem cell isolation, expansion and functional characterization using xenotransplantation into immunodeficient mouse models for the treatment of human hematopoietic disorders, ischemic vascular diseases, diabetes, and diseases of the gastrointestinal system and skin. The role of stem cells in the development of cancer will also be discussed.

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). Asynchronous lectures (2 hours) will be posted weekly by the lecturer. Timetables synchronous sessions (1 hour) will provide details for Blog Assignment discussions and an opportunity for question and answer tutorials will be held by the lecturer and Graduate TAs over Zoom. Students could be expected to complete work prior to attending sessions. 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>Thursday</td>
<td>2-3 PM</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2 hours</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
- Participation
- Discussion forums
- Oral presentations
- Groupwork
- Other:
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Physiology & Pharmacology
PHYSIOL 4530B—Skeletal Health and Disease

Instructor: Dr. Cheryle Séguin
Dr. Frank Beier
Email: Cheryle.seguin@schulich.uwo.ca
fbeier@uwo.ca

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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 both in person and online components. Virtual sessions will be a combination of synchronous (live modules/exercises) and asynchronous (recorded lectures). 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 active learning modules/exercises</td>
<td>Wednesdays</td>
<td>9:30-11:20</td>
<td>Weekly*</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous* active learning modules/exercises</td>
<td>Wednesdays</td>
<td>9:30-11:20</td>
<td>Weekly*</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous lectures</td>
<td>N/A</td>
<td>1-1.5 hours</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
*We will have a mix of weekly in person and/or virtual active learning modules/exercises that could be move entirely online if required

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

- Weekly quizzes
- Written assignments
- Oral presentations
- Discussion forums
- Groupwork
- Take home tests/exams
- Timed tests/exams
- 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: Donglin Bai (Manager) Wei-Yang Lu

Email: Donglin.bai@schulich.uwo.ca Wlu53@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 synchronous (live), and 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, exam, 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>Wed.</td>
<td>2:30–4:30</td>
<td>[weekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtualynchronous</td>
<td>N/A</td>
<td>1-2 hours</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: written summary
- Participation
- Discussion forums
- Groupwork
- Other:

- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
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. Rob Gros
Email: rgros@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: Blended
This course will be delivered in person with some virtual components. Virtual sessions will 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>Fridays</td>
<td>9:30-11:30</td>
<td>[weekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>[1 hour]</td>
<td>[weekly]</td>
<td>N/A</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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other:
- Other:
- Other:
Physiology & Pharmacology  
PHYSIOL 4620A—Reproductive Endocrinology

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. Andrew J. Watson  
Email: awatson@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 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>Tuesday</td>
<td>[12:30 -2:30]</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>[2 hrs]</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
- Participation
- Discussion forums
- Oral presentations
- Groupwork
- Other:  
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
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. Wataru Inoue
Email: winoue@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>W</td>
<td>[13:00-14:00]</td>
<td>[weekly]</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>[2 hours]</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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other:
- Other:
- Other:
Physiology & Pharmacology

PHYSIOL 4680B — Cellular and Molecular Neurobiology

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: Wei-Yang Lu (Coordinator) 
Julio Martinez-Trujillo
Stephen Pasternak

Email: wlu53@uwo.ca
julio.martinez@robarts.ca
spasternak@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
- Zoom video communications

Delivery mode:
This course will be delivered completely online. Virtual sessions will be synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for lectures, 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>Mondays</td>
<td>2:30-4:30</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2 hours</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:
Physiology & Pharmacology
PHYSIOL 4700B—Fetal Physiology

Instructor: Drs. Regnault, Duerden, Renaud, Email: tim.regnault@uwo.ca
Hill and Hardy

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.

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. Virtual sessions will be synchronous (live), & 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>Virtual synchronous*</td>
<td>Thursday</td>
<td>30 mins - 1 hr</td>
<td>[weekly]</td>
<td>Yes or Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td></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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other:
- Other:
- Other:
Physiology & Pharmacology  
PHYSIOL 4730B—Cell Signaling in Tissue, Injury, & Repair

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: Sean Cregan  
Email: scregan@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 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>Wednesdays</td>
<td>1:30-3:30</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>1-2 hours</td>
<td>Weekly</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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:
Physiology & Pharmacology
PHYS PHARM 3000E—Physiology & Pharmacology Lab

Instructor: Tom Stavraky
Email: Tom.stavraky@schulich.uwo.ca

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.

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>T/W</td>
<td>1:30 to 4:30 PM</td>
<td>weekly</td>
<td>Mandatory</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>1 hour</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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other: videos presentations
- Other: video presentation
- Other: Online quizzes
- Other: Online proctored 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: Dr. Angela Beye  
Email: abeye2@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 have in person components (lab component) with workshops 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>In person</td>
<td>as discussed with supervisor</td>
<td>[4 hrs]</td>
<td>[weekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous</td>
<td>M or W (section dependent)</td>
<td>[M 9:30-11:30 or W 10:30-12:30]</td>
<td>[weekly - biweekly]</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>[2-4 hrs]</td>
<td>[weekly]</td>
<td>N/A</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: data analysis timed assignment