Biochemistry
BIOCHEM 2280A—Biochemistry & Molecular Biology

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: Derek McLachlin
Ilka Heinemann
Michael Boffa
Email: dmclach3@uwo.ca
iheinema@uwo.ca
mboffa@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(001)</td>
<td>2:30-3:30</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>T/Th/F (002)</td>
<td>3:30-4:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>3 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
Quizzes
Participation
Discussion forums
Groupwork
Take home tests/exams
Timed tests/exams
Proctored tests/exams
Other:
Other:
Biochemistry

BIOCHEM 2288A— Biochemistry & Molecular Biology for Foods & Nutrition

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: Derek McLachlin  
Ilka Heinemann  
Michael Boffa  

Email: dmclach3@uwo.ca  
iheinema@uwo.ca  
mboffa@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 (001)</td>
<td>2:30-3:30</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>T/Th/F (002)</td>
<td>3:30-4:30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>3 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
- Quizzes
- Participation
- Discussion forums
- Groupwork
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Biochemistry
BIOCHEM 3380G—Biochemistry 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.

Instructor: Derek McLachlin
Email: dmclach3@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

Delivery mode:
This course will have in person components. Virtual sessions will be asynchronous (recorded). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for labs, 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>Th (001/003)</td>
<td>1:30-5:30 pm</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td></td>
<td>F (002/004)</td>
<td>1:30-5:30 pm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>30 minutes</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.

- Online quizzes
- Written assignments
- Oral presentations
- Peer assessment
- Participation
- Discussion forums
- Groupwork
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Biochemistry
BIOCHEM 3381A—Biological Macromolecules

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: Murray Junop
James Choy

Email: mjunop@uwo.ca
jchoy4@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). Students could be expected to complete work prior to attending sessions. Timetabled sessions could be used for 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>

**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:
Biochemistry  
BIOCHEM 3382A—Biochemical Regulation

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:  Dave Edgell  
Derek McLachlin  

Email:  dedgell@uwo.ca  
dmclach3@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>F</td>
<td>2:30-3:30</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual synchronous (student presentation)</td>
<td>T</td>
<td>5:30-6:30</td>
<td>Once in course</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2 hours / wk</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:
Biochemistry
BIOCHEM 3383F/G—Introduction to Biochemical Research

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: Ken Yeung  
Email: kyeung@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 research project course is based on participation in biochemistry research activities conducted under the supervision of a faculty advisor. Depending on the nature of the projects assigned/selected, the experimental activities may be conducted on-campus or remotely online. There will also be a number of virtual training and presentation sessions that will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending 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 or online experiments</td>
<td>Not prescheduled</td>
<td></td>
<td></td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual asynchronous*</td>
<td>N/A</td>
<td>Irregular</td>
<td></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  
Written report on research results  
Participation  
Discussion forums  
Groupwork  
Research performance  
Take home tests/exams  
Timed tests/exams  
Proctored tests/exams  
Other:
Biochemistry
BIOCHEM 3385A—Human Biochemistry

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: Caroline Schild-Poulter
Michael Boffa
David O’Gorman

Email: cschild-poulter@robarts.ca
mboffa@uwo.ca
dogorman@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>11:30 am - 12:30 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.

- Quizzes
- Written assignments
- Oral presentations
- Group written assignments
- Participation
- Discussion forums
- Groupwork
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Biochemistry
BIOCHEM 3386B—Clinical Biochemistry

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: Angela Rutledge
Michael Knauer
Iven Stevic
Vipin Bhayana
Liju Yang

Email: Angela.rutledge@lhsc.on.ca
         Michael.knauer@lhsc.on.ca
         Iven.stevic@lhsc.on.ca
         Vipin.bhayana@lhsc.on.ca
         Liju.yang@lhsc.on.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). 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>1 hour</td>
<td>3x / wk</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
- Quizzes
- Participation
- Discussion forums
- Groupwork
- Other:

- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Biochemistry
BIOCHEM 3390B—Advanced Methods for Biochemistry

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: Gary Shaw
Hong Ling
Greg Gloor

Email: Gshaw1@uwo.ca
Hling4@uwo.ca
ggloor@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

Delivery mode:
This course has two lectures and one computer lab per week that will be delivered completely online. Virtual sessions will be a combination of synchronous (live) and asynchronous (recorded). 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</td>
<td>12:30-1:30 pm</td>
<td>Weekly</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>11:30-12:30 pm</td>
<td>weekly</td>
<td></td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>2-3 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:
Biochemistry
BIOCHEM 3392G—Synthetic Biology

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: Bogumil Karas
Email: bkaras@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). 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>11:30-1:30 pm</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td></td>
<td>Th</td>
<td>12:30-1:30 pm</td>
<td></td>
<td></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
- Peer assessment
- Other:
- Other:
Biochemistry
BIOCHEM 4410A—Molecular Biology DNA RNA

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: David Haniford
Email: haniford@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>T/Th</td>
<td>12:30-1:30 pm</td>
<td>weekly</td>
<td>Optional</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: Other:
- Other:
Biochemistry
BIOCHEM 4415B—Applied Synthetic Biology & Chemical Genetics

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: Patrick O'Donoghue
Brian Shilton
Chris Garnham

Email: Patrick.odonoghue@uwo.ca
bshilton@uwo.ca
chris.garnham@canada.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 (recommended)

Delivery mode:
This course will be delivered completely online. Virtual sessions will be a combination of synchronous (live lecture and discussion) and asynchronous (recorded lectures). Students are expected to complete work, including reading and viewing lectures, prior to attending live sessions. Timetabled sessions could be used for lectures, 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* (Lecture &amp; discussion)</td>
<td>M/W</td>
<td>1:30-2:30 pm</td>
<td>weekly</td>
<td>Yes</td>
</tr>
<tr>
<td>Virtual synchronous* (Tutorials, presentations)</td>
<td>F</td>
<td>11:30 am - 12:30 pm</td>
<td>Bi-weekly or as indicated**</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
Quizzes
Participation
Discussion forums
Groupwork
Other:
Take home tests/exams
Timed tests/exams
Proctored tests/exams
Other:
Biochemistry
BIOCHEM 4420A—Molecular Biology of Proteins

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: Brian Shilton
James Choy
Gary Shaw

Email: bshilton@uwo.ca
jchoy4@uwo.ca
gshaw1@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 will be 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/Th</td>
<td>9:30-10:30 am</td>
<td>weekly</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>Th</td>
<td>5:30-6:30 pm</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
- Written assignments
- Oral presentations
- Group video
- Participation
- Discussion forums
- Groupwork
- Other:
- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Biochemistry
BIOCHEM 4425B—Proteomics and Protein Biotechnology

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: Gilles Lajoie  
            Shawn Li  
            Hong Ling  

Email: glajoie@uwo.ca  
       sli@uwo.ca  
       hling4@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>T/Th</td>
<td>12:30-1:30 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
- Participation
- Take home tests/exams
- Written assignments
- Discussion forums
- Timed tests/exams
- Oral presentations
- Groupwork
- Proctored tests/exams
- Other:
- Other:
- Other:
Biochemistry
BIOCHEM 4450A—Molecular Genetics of Human Cancer

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Instructor: Fred Dick  
Email: fdick@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), with asynchronous (recorded) content available after each lecture. 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>5:30-7:30 pm</td>
<td>weekly</td>
<td>Optional</td>
</tr>
</tbody>
</table>

*Virtual synchronous sessions will be recorded for later viewing

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  
Quizzes  
Participation  
Discussion forums  
Groupwork  
Other:  
Take home tests/exams  
Timed tests/exams  
Proctored tests/exams  
Other:
Biochemistry
BIOCHEM 4455G—Translation in Cancer Biology

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: Alison Allan (course coordinator)
Kelly Hollingshead (CEL coordinator)

Email: Aallan3@uwo.ca
Khollin2@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 may have some in-person components (with community partners; TBD) but will be primarily delivered 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>In person</td>
<td>Flexible</td>
<td>Flexible</td>
<td>Occasional</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>T</td>
<td>6:30-8:30 pm</td>
<td>weekly</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*Virtual synchronous sessions will be recorded for later viewing

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
- Community partner project
- Personal reflections
- Other:
Biochemistry
BIOCHEM 4463B—Molecular Basis of Human 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: Susan Meakin
Marlys Koschinsky
Martin Duennwald

Email: smeakin@uwo.ca
mlk@robarts.ca
martin.duennwald@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 have in person components or will be delivered completely online. Virtual sessions will be synchronous (live), asynchronous (recorded), or 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 asynchronous</td>
<td>N/A</td>
<td>3 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
- Written assignments
- Oral presentations
- Quizzes

- Participation
- Discussion forums
- Groupwork
- Other:

- Take home tests/exams
- Timed tests/exams
- Proctored tests/exams
- Other:
Biochemistry  
BIOCHEM 4483E—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: Ken Yeung  
Email: kyeung@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 research project course is based on participation in biochemistry research activities conducted under the supervision of a faculty advisor. Depending on the nature of the projects assigned/selected, the experimental activities may be conducted on-campus or remotely online. There will also be a number of virtual training and presentation sessions that will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending 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 or online experiments</td>
<td>Not prescheduled</td>
<td>2:30-4:30 pm</td>
<td>TBA**</td>
<td>Required</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>F</td>
<td>2:30-4:30 pm</td>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td></td>
<td>Irregular</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  
Written report on research results  
Participation  
Discussion forums  
Groupwork  
Research performance  
Take home tests/exams  
Timed tests/exams  
Proctored tests/exams  
Other:
Biochemistry
BIOCHEM 4486E—Cancer Biology Research Project

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: Ken Yeung
Email: kyeung@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 research project course is based on participation in biochemistry research activities conducted under the supervision of a faculty advisor. Depending on the nature of the projects assigned/selected, the experimental activities may be conducted on-campus or remotely online. There will also be a number of virtual training and presentation sessions that will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions.

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<tbody>
<tr>
<td>In person or online experiments</td>
<td>Not prescheduled</td>
<td>2:30-4:30 pm</td>
<td>TBA**</td>
<td>Required</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>F</td>
<td>2:30-4:30 pm</td>
<td>TBA**</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>Irregular</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
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**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
Written report on research results

Participation
Discussion forums
Groupwork
Research performance

Take home tests/exams
Timed tests/exams
Proctored tests/exams
Other:
Biochemistry
BIOCHEM 4999E—Advanced Research in Biochemistry

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: Ken Yeung  
Email: kyeung@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 research project course is based on participation in biochemistry research activities conducted under the supervision of a faculty advisor. Depending on the nature of the projects assigned/selected, the experimental activities may be conducted on-campus or remotely online. There will also be a number of virtual training and presentation sessions that will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions.

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<tr>
<td>In person or online experiments</td>
<td>Not prescheduled</td>
<td>2:30-4:30 pm</td>
<td>TBA**</td>
<td>Required</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>F</td>
<td>2:30-4:30 pm</td>
<td>TBA**</td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>Irregular</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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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  
- Written report on research results  
- Research performance  
- Other:
Biochemistry
CHEMICAL BIOLOGY 4500E—Research Project in Chemical Biology

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: Ken Yeung  
Email: kyeung@uwo.ca

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

Delivery mode:
This research project course is based on participation in biochemistry research activities conducted under the supervision of a faculty advisor. Depending on the nature of the projects assigned/selected, the experimental activities may be conducted on-campus or remotely online. There will also be a number of virtual training and presentation sessions that will be a combination of synchronous (live) and asynchronous (recorded). Students could be expected to complete work prior to attending sessions.

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<th>Attendance</th>
</tr>
</thead>
<tbody>
<tr>
<td>In person or online experiments</td>
<td>Not prescheduled</td>
<td>2:30-4:30 pm</td>
<td>TBA**</td>
<td>Required</td>
</tr>
<tr>
<td>Virtual synchronous*</td>
<td>F</td>
<td>2:30-4:30 pm</td>
<td></td>
<td>Optional</td>
</tr>
<tr>
<td>Virtual asynchronous</td>
<td>N/A</td>
<td>Irregular</td>
<td>N/A</td>
<td></td>
</tr>
</tbody>
</table>

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**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
- Written report on research results
- Research performance
- Other: