

BIOLOGY FOR SCIENCE II (1002B) – Course Outline

(Summer Day : July 29-Aug 16 2019)

Instructor: Dr. Niki Sharan

Office Location: North Campus Building, Room 301G; Email: nsharan@uwo.ca

Skill Development Coordinator: Winona Gadapati.

Office Location: North Campus Building, Rm 301K; Email: wgadapa2@uwo.ca

Lectures: Posted on OWL (<https://owl.uwo.ca/portal>) for students to independently study the materials in the lectures *before* gathering with instructor for the face-to-face sessions. (Start studying daily lessons on OWL on Mon, July 29th).

Skill Development Sessions: Tues & Thurs 1:00-4:00 PM, NCB 310 (Begins: Tues, July 30th)

Face-to-Face Sessions : Tues & Thurs 10:00 AM-12:00 PM, University College, Room 1110 (UC 1110) (Begins: Thurs, August 1st). If you cannot attend the live sessions, the recording will be available to you on OWL.

Mark Breakdown

Skill Development: 25% (if you are registered as a 999 student, your marks from previous year will be transferred here).

Online Quizzes: 5% (Total of 2 online quizzes in the course which are posted on OWL under “Tests & Quizzes” with deadline dates).

Midterm Exam: 30% (Saturday, August 10, 2019 from 2:00-4:00 PM in SSC 3022).

Final Exam: 40% (To be scheduled by Registrar's office for either Aug 19 or 20, 2019- Make sure to keep both dates available and don't make travel plans during this period).

Materials Required:

All items below are available at the campus bookstore for purchase.

1. Biology: Exploring the Diversity of Life. 3rd Canadian Edition. (please note that purchase of this textbook optional since it is used as a supplement rather than an absolute requirement).

The course textbook is also available online through MindTap (this resource is not free; please see payment options below). In order to access MindTap, you need to create a NelsonBrain account.

Student Instructions on how to access MindTap

- a. Connect to <https://login.nelsonbrain.com/course/MTPP7BRPD518> and follow the prompts to register your MindTap course.
- b. After registering for your course, you will need to pay for access using one of the options below:

Online: You can pay online using a credit or debit card, or PayPal.

Bookstore: You may be able to purchase access to MindTap at your bookstore. Check with the bookstore to find out what they offer for your course.

- c. To check whether your computer meets the requirements for using MindTap, go to <http://ng.cengage.com/static/browsercheck/index.html>

Please Note: the System Check is also accessible in the drop down box next to your name located in the upper right corner of your MindTap page.

2. Lab coat and safety glasses (Note: if you wear regular glasses, they *cannot* be substituted for safety glasses. You can buy special ones that go over your regular glasses).
3. Laptop with internet access (preferably hard wire connection, as opposed to wireless, to guarantee the quality of the live streaming of video and audio during face-to-face sessions). Instructions on how to use Collaborate UE so you can participate in the virtual classroom (or view the video at a later date) is posted under the 'Face-to-face' tab.

Course Prerequisites:

The prerequisites for the course are Grade 12U (SB14U) Biology or Grade 11U (SB13UA) Biology. A minimum mark of 80% in Grade 12U Biology (SB14U) is recommended for students registered in a faculty other than the Faculty of Science. In order to enroll in the course, you **MUST** have either the prerequisites for this course or written special permission from your Dean.

OWL:

ALL course information will be on this course OWL site: <https://owl.uwo.ca/portal>.

Please note that important announcements will be made on OWL, and you are responsible for obtaining this information.

Topics Covered in this Course:

Light and Life

Protein Structure

Energy and Enzymes

Membrane Biology

Photosynthesis

Cellular Respiration

Enzyme Kinetics

Integrated Metabolism

Evolution of Eukaryotic Cells

Prokaryotic and Eukaryotic Gene Structure

Gene Regulation

Genetic Engineering

Epigenetics

Cancer

Availability of Instructor:

Dr. Niki Sharan's office hours: Tuesday and Thursday 12:00-1:00PM (UC 1110). First office hour will commence Thursday, August 1, 2019. Please never hesitate to come to me with any questions about the course. You can contact me during my office hours, by messaging me on OWL, by e-mail, by appointment or by posting your questions on the discussion forum on OWL.

Use of Discussion Forum on OWL:

Please note that although I will periodically appear on these discussion boards, this is predominantly to be used by you and your peers. Engaging in scientific discussions with your classmates will allow you to acquire this very important skill set. The topics are to be restricted *to scientific content of this course only*. Please keep all questions and/or comments professional and polite otherwise your username will be removed from the discussion forum.

Sending Emails to Instructor, Lab Coordinator, Teaching Assistants:

Include “B1002B” in the subject line of all emails about this course, and only send emails from your UWO account and identify yourself with your name and student number. Emails from non-UWO addresses ***will be deleted***, as will emails that are impolite. Due to the high influx of student emails just before an approaching exam date, email response time may be slow.

Your Western email Account:

In addition to messages posted on OWL, the instructor may want to contact you via your email account to ensure that you receive the message. Make sure you don't miss important messages because you have 'exceeded your quota' on email. It is your responsibility to make sure that the email message gets to you in a timely fashion.

Technical Assistance:

Given the fact that much of this course is online and relies heavily on technology, you may contact Western's ITS Support (<http://www.uwo.ca/its>) if you need assistance.

Audio Recording of Course:

If you wish to make an audio recording of any aspect of the course you ***MUST*** gain permission from the instructor (*according to intellectual property laws, not asking permission constitutes stealing*). Please note that video recording requests will *not* be granted.

Absence from Lab or Exams:

For missed labs and exams, written documentation presented to an Academic Counselor in your Faculty's Dean's Office is required. For medical accommodation in particular, find the UWO Policy on Accommodation for Medical Illness and downloadable Student Medical Certificate (SMC) at http://www.uwo.ca/univsec/handbook/appeals/accommodation_medical.pdf

If you know in advance that you will be absent for a lab, you must inform Winona Gadapati by email of your absence. She will decide whether you are eligible for accommodation. Prior to an exam you must inform Dr. Niki Sharan by email of absence, then immediately submit all documentation directly to your Faculty's Dean's office who will determine if accommodations are warranted. If you do not provide written documentation from the Dean's office, you will receive a mark of “Zero” for that particular missed lab and/or exam.

Note: There are **NO** make-up midterm exams. If you miss the midterm exam your final mark will be reweighed. The weight of the midterm will be added to your final exam weight. Therefore, your final exam will weigh 70% of your overall grade. You will not receive accommodation for missed midterm without proper documentation from Dean's office. Writing the midterm is not optional, you **MUST** have a valid reason to miss the midterm exam. The final exam is cumulative, meaning that it will cover course material from the beginning to the end of the course (July 29-Aug 16, 2019). ***Make-up final exam is only available to students who have***

been granted accommodation by the Dean's office. You MUST have an authorized valid reason in order to receive exemption from missing the original final exam. ***Please note that the make-up final exam will be tougher than the original final exam in order to maintain fairness in the course.*** Students that are writing the make-up final have an advantage point because the exam questions will be out, they will have a very good idea of the instructor's style of testing for that particular year. They will also have more time to study the material. For these reasons, it is important to make the make-up final *tougher* in order to keep all students on *fair* ground.

Academic Offences:

Scholastic offences are taken seriously. Students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at the following Web site: http://www.uwo.ca/univsec/handbook/appeals/scholastic_discipline_undergrad.pdf

At a minimum, students caught cheating on the exam will receive a mark of zero.

Accessibility Statement:

Please contact Services for Students with Disabilities (SSD) at 661-2111 x 82147 for any specific question regarding special accommodations.

Mental Health

Students who are in emotional/mental distress should refer to MentalHealth@Western <http://www.uwo.ca/uwocom/mentalhealth/> for a complete list of options about how to obtain help. The Province operates a toll-free post-secondary mental health Help Line at 1-866-925-5454.

Additional Resources:

Registrarial Services (grades, timetabling, course registration etc.) can be found at <http://www4.registrar.uwo.ca>.

Learning Skills Support can be found at <http://www.sds.uwo.ca/learning>.