



## Biology 0010 – Biological systems

### Intersession 2018 COURSE OUTLINE

#### Course description

Biology 0010 is designed to help students in Brescia preliminary year, achieve detailed knowledge and the refinement of skills needed for further study in various branches of the life sciences and related fields. Subjects covered in the course and depth level is in accordance with the Grade 12 Biology curriculum as outlined for Ontario Secondary Schools.

#### Course scheduling

**Lectures:** Mon, Tue, Wed and Thu 9:00 to 11:00 in Ursuline hall room 28, Brescia

To achieve better retention and understanding of material, we will run active classrooms, so students, please arrive to lectures ready to engage, actively participate in discussions, work through example questions, etc. Participation in some of these activities will contribute to your mark.

**Labs:** Fri 9:00 to 12:00 in North Campus Building (NCB) room 330, Western

The Labs are mandatory. In case you have to miss the lab, make sure that you provide acceptable documentation (see below regulations), to avoid penalties for absence from a given lab. Labs are an essential component of this course, and we will have six of them over intersession, developing practical and literacy skills.

#### Instructor Information

**Anica Bjelica**

Western campus, NCB 450/Brescia, Ursuline hall 215

[abjelic@uwo.ca](mailto:abjelic@uwo.ca)

I will be available to help with lecture and lab material (office hours) as we arrange to best accommodate the schedule.

## Course Materials

1. Website: <https://owl.uwo.ca/>. Log in with your username and password. Find more detailed course information and policies, get help, post questions, find syllabus, assigned readings, exam details, announcements, etc.
2. Textbook: Starr, Evers and Starr. 2013. *Biology Today and Tomorrow*. 4<sup>th</sup> edition. A copy of this textbook will also be available on course reserve in the Beryl Ivy Library. For purchase available at the campus bookstore.
3. Required Lab Materials: lab coat (available for purchase at the campus bookstore).

## Assessment

The majority of course grade falls on the Term Tests and Final Exam.

Course Component		Schedule*
Activities	10%	throughout intersession, in class, in lab, online activities will be done (short answers, guided learning quizzes, discussions on articles etc).
Lab exercises	15%	demonstrating micro-pipetting, plating, microscope use, data analysis, data presentation Friday, June 22 <sup>nd</sup> 9 am – 10am
Lab test	15%	2 assignments given throughout intersession, literacy skills: research writing, research articles finding, critical view.
Term tests	30%	Each test 15%, multiple choice, short answer, problem solving questions. Term test 1: Friday, June 1 <sup>st</sup> 9am – 10am Term test 2: Friday, June 15 <sup>th</sup> 9am – 10am
Final exam	30%	multiple choice, short answer, problem solving questions. June 25 <sup>th</sup> or June 26 <sup>th</sup> TBA  (Do not book travel during the exam days.)

\*on the OWL course website, more detailed description of the activities will be available at the start of the intersession

## COURSE SCHEDULE

In the table is presented a **tentative** schedule for our lectures and labs. As the course progresses, depending on the rate at which we cover the individual topics, adjustments can be made.

<b>Date</b>	<b>Lecture (Mon, Tue, Wed, Thu 9:00 – 11:00)</b>	<b>Lab (Fridays 9:00-12:00)</b>
May 14	Welcome! The Nature of Science	
May 15	Molecules of life	
May 16	Cell structure and function	
May 17	Membrane structure and function	
May 18		Microscopy (basic principles, animal and plant cell)
May 21	Victoria day, no classes	
May 22	Enzymes and reactions	
May 23	Photosynthesis and respiration	
May 24	DNA structure and replication	
May 25		Experimental design (UV effect on <i>E. coli</i> survival)
May 28	Protein synthesis	
May 29	Mitosis and Meiosis	
May 30	Origins of genetic variability	
May 31	Review	
June 1		DNA isolation <b>Term test 1 (9:00-10:00)</b>
June 4	Mendelian genetics	
June 5	Microevolution and speciation	
June 6	Ecology	
June 7	Plant structure and function	
June 8		Natural selection and adaptation
June 11	Animals structure	
June 12	Animals respiratory system	
June 13	Animals structure digestive system	
June 14	Animals circulatory system and hormones	
June 15		Animal systems (dissection) <b>Term test 2 (9:00 – 10:00)</b>
June 18	Diversity of life (viruses, archaea/bacteria, protists)	
June 19	Diversity of life (plants and fungi)	
June 20	Diversity of life (animals)	
June 21	Review	
June 22		Diversity of life <b>Lab test (9:00 – 10:00)</b>
June 25 or June 26	<b>final exam</b> exact day and time TBA	

## 2017-18 BRESCIA UNIVERSITY COLLEGE ACADEMIC POLICIES AND REGULATIONS

### 1. POLICY REGARDING MAKEUP EXAMS AND EXTENSIONS OF DEADLINES

When a student requests academic accommodation (e.g., extension of a deadline, a makeup exam) for work representing 10% or more of the student's overall grade in the course, it is the responsibility of the student to provide acceptable documentation to support a medical or compassionate claim. All such requests for academic accommodation must be made through an Academic Advisor and include supporting documentation. Academic accommodation for illness will be granted only if the documentation indicates that the onset, duration and severity of the illness are such that the student could not reasonably be expected to complete her academic responsibilities. Minor ailments typically treated by over-the-counter medications will not normally be accommodated. Documentation shall be submitted as soon as possible to the student's Academic Advisor indicating the period of illness and when the student should be able to resume academic responsibilities. Students must submit their documentation along with a request for relief specifying the nature of the accommodation being requested no later than two business days after the date specified for resuming responsibilities. Appropriate academic accommodation will be determined by the Dean's Office in consultation with the student's instructor(s). Please note that personal commitments (e.g., vacation flight bookings, work schedule) which conflict with a scheduled test, exam or course requirement are not grounds for academic accommodation. A UWO Student Medical Certificate (SMC) is required if a student is seeking academic accommodation on medical grounds. This documentation should be obtained at the time of the initial consultation with the physician/nurse practitioner or walk-in clinic. A SMC can be downloaded from: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf).

The student must request documentation sufficient to demonstrate that her ability to meet academic responsibilities was seriously affected. Please note that under University Senate regulations documentation stating simply that the student "was seen for a medical reason" or "was ill" is not adequate to support a request for academic accommodation. Whenever possible, requests for academic accommodation should be initiated in advance of due dates, examination dates, etc. Students must follow up with their professors and Academic Advisor in a timely manner. The full policy on requesting accommodation due to illness can be viewed at: <http://westerncalendar.uwo.ca/2017/pg117.html>

### 2. ACADEMIC CONCERNS

If you feel that you have a medical or personal problem that is interfering with your work, contact your instructor and Academic Advisor as soon as possible. Problems may then be documented and possible arrangements to assist you can be discussed at the time of occurrence rather than on a retroactive basis. Retroactive requests for academic accommodation on medical or compassionate grounds may not be considered. If you think that you are too far behind to catch up or that your work load is not manageable, you should consult an Academic Advisor. If you consider reducing your workload by dropping one or more courses, this must be done by the appropriate deadlines (refer to the Registrar's website, <http://brescia.uwo.ca/academics/registrar-services/> or the list of official dates <http://westerncalendar.uwo.ca/2017/pg7.html> ). You should consult with the course instructor and the Academic Advisor who can help you consider alternatives to dropping one or more courses. Note that dropping a course may affect OSAP eligibility and/or Entrance Scholarship eligibility. The Dean may

refuse permission to write the final examination in a course if the student has failed to maintain satisfactory academic standing throughout the year or for too frequent absence from the class or laboratory (<http://westerncalendar.uwo.ca/2017/pg130.html> )

### **3. ABSENCES**

Short Absences: If you miss a class due to a minor illness or other problems, check your course outline for information regarding attendance requirements and make sure you are not missing a test or assignment. Cover any readings and arrange to borrow notes from a classmate. Contact the course instructor if you have any questions. Extended Absences: If you have an extended absence, you should contact the course instructor and an Academic Advisor. Your course instructor and Academic Advisor can discuss ways for you to catch up on missed work and arrange academic accommodations, if appropriate.

### **4. POLICY ON CHEATING & ACADEMIC MISCONDUCT**

Scholastic offences are taken seriously and 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/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf). Students are responsible for understanding the nature of and avoiding the occurrence of plagiarism and other academic offences. Students are urged to read the section on Scholastic Offences in the Academic Calendar. Note that such offences include plagiarism, cheating on an examination, submitting false or fraudulent assignments or credentials, impersonating a candidate, or submitting for credit in any course without the knowledge and approval of the instructor to whom it is submitted, any academic work for which credit has previously been obtained or is being sought in another course in the University or elsewhere. Students are advised to consult the section on Academic Misconduct in the Western Academic Calendar. If you are in doubt about whether what you are doing is inappropriate or not, consult your instructor, the Student Services Centre, or the Registrar. A claim that "you didn't know it was wrong" is not accepted as an excuse. 11 The penalties for a student guilty of a scholastic offence (including plagiarism) include refusal of a passing grade in the assignment, refusal of a passing grade in the course, suspension from the University, and expulsion from the University. Plagiarism: Students must write their essays and assignments in their own words. Whenever students take an idea or a passage from another author, they must acknowledge their debt both by using quotation marks where appropriate and by proper referencing such as footnotes or citations. Plagiarism is a major academic offence (see Scholastic Offence Policy in the Western Academic Calendar). All required papers may be subject to submission for textual similarity review to the commercial plagiarism detection software under license to the University for the detection of plagiarism. All papers submitted for such checking will be included as source documents in the reference database for the purpose of detecting plagiarism of papers subsequently submitted to the system. Use of the service is subject to the licensing agreement, currently between The University of Western Ontario and Turnitin.com (<http://www.turnitin.com>). Computer-marked Tests/exams: Computer-marked multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating. Software currently in use to score computer-marked multiple-choice tests and exams performs a similarity review as part of standard exam analysis.

## 5. PROCEDURES FOR APPEALING ACADEMIC EVALUATIONS

All appeals of a grade must be directed first to the course instructor. If the student is not satisfied with the decision of the course instructor, a written appeal signed by the student must be sent to the Department Chair. If the response of the department is considered unsatisfactory to the student, she may then submit a signed, written appeal to the Office of the Dean. Only after receiving a final decision from the Dean may a student appeal to the Senate Review Board Academic. A Guide to Appeals is available from the Ombudsperson's Office, or you can consult an Academic Advisor. Students are advised to consult the section on Student Academic Appeals under Academic Rights and Responsibilities in the Western Academic Calendar (<http://westerncalendar.uwo.ca/2017/pg112.html>). Note that final course marks are not official until the Academic Dean has reviewed and signed the final grade report for the course. If course marks deviate from acceptable and appropriate standards, the Academic Dean may require grades to be adjusted to align them with accepted grading practices ([http://www.uwo.ca/univsec/pdf/academic\\_policies/exam/evaluation\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/exam/evaluation_undergrad.pdf) and [http://www.uwo.ca/univsec/pdf/academic\\_policies/exam/finalgrades.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/exam/finalgrades.pdf)).

## 6. PREREQUISITES

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

## 7. SUPPORT

Support Services The Brescia University College Registrar's website, with a link to Academic Advisors, is at <http://brescia.uwo.ca/academics/registrar-services/>. The website for the Student Development Centre at Western is <http://www.sdc.uwo.ca/>. Mental Health and Wellness Students may experience a range of issues that can cause barriers to your learning, such as increased anxiety, feeling overwhelmed, feeling down or lost, difficulty concentrating and/or lack of motivation. Services are available to assist you with addressing these and other concerns you may be experiencing. You can learn more about mental health and wellness at Brescia at <http://brescia.uwo.ca/life/mental-health-wellness/>. Students who are in emotional/mental distress should refer to [Mental\\_Health@Western](mailto:Mental_Health@Western) <http://www.uwo.ca/uwocom/mentalhealth/> for a complete list of options about how to obtain help.

### Sexual Violence

All members of the Brescia University College community have a right to work and study in an environment that is free from any form of sexual violence. Brescia University College recognizes that the prevention of, and response to, Sexual Violence is of particular importance in the university environment. Sexual Violence is strictly prohibited and unacceptable and will not be tolerated. Brescia is committed to preventing Sexual Violence and creating a safe space for anyone in the Brescia community who has experienced Sexual Violence. If you or someone you know has experienced any form of Sexual Violence, you may access resources at <http://brescia.uwo.ca/life/sexual-violence/>.

Portions of this document were taken from the Academic Calendar, the Handbook of Academic and Scholarship Policy and the Academic Handbook of Senate Regulations. This document is a summary of relevant regulations and does not supersede the academic policies and regulations of the Senate of the University of Western Ontario.