

SYLLABUS

BIOL 1010 BIOLOGY: BIOLOGICAL DIVERSITY AND INTERACTIONS

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Welcome to Biology: Diversity and Interactions. I hope you enjoy this course which offers you, the student, a taste of the incredible diversity of organisms that are found on earth. When you complete this course, you will have an understanding of how all of the organisms on Earth interact with one another and how these interactions form incredible complex systems. Some sections will be quite challenging so keep in mind that when you are having any difficulty you can always call or e-mail your instructor.

COURSE DESCRIPTION

The *Undergraduate Calendar* of The University of Manitoba describes BIOL 1010, Biology: Biological Diversity and Interactions as follows:

An introduction to biological diversity including prokaryotes, protists, fungi, plants and animals; the form and function of plants and animals and basic concepts of ecology. May not be used for credit in a Major or Honours program in the biological sciences. Not to be held with BIOL 1020 (or 071.102) or BIOL 1021 or BIOL 1030 (or 071.103) or BIOL 1031 or the former 071.125, BIOL 2010 (or 071.201) or 071.123.

This course in general biology consists of a broad and general review of contemporary biology and assumes little or no previous exposure to the subject. It starts with a brief examination of biochemistry and cell biology, then moves on to evolution and diversity. The course also looks at the form and function of animals and plants and concludes with an overview of ecology. The course does not have a lab component. Information on Biology courses at the University of Manitoba can be found on the Biology web site

http://www.umanitoba.ca/faculties/science/biological_sciences/.

PREREQUISITE

Any grade 12 or 40S Mathematics course (50%), or equivalent.

COURSE OBJECTIVES

Upon completion of this course you should be able to **explain** (using appropriate terminology) the following:

1. The organization of living things into the five Kingdoms.

2. The relationships between the major animal phyla using a phylogenetic tree.
3. The differences between the general animal and the general plant life cycle.
4. The basic structure and function of animals.
5. How animals carry out necessary functions for life.
6. The basic structure and function of plants.
7. The key evolutionary adaptations that have allowed angiosperms to be so successful on land.
8. The different scales of ecology (individual, population, community, ecosystem) and how these vary from the scales (cells, tissues, and organs) of most study in biology.

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COURSE MATERIALS

Textbooks

The following required materials are available for purchase from the [University of Manitoba Bookstore](#). Please order your materials immediately, if you have not already done so. See your [Distance and Online Education Student Handbook](#) for instructions on how to order your materials.

Note: Students are required to obtain the textbook.

Textbook:

J.B. Reece, M. Taylor, E. Simon, J. Dickey and K. G-E. Scott (2014). Campbell *Biology: Concepts and Connections*, Canadian Edition. Pearson, Toronto.

- **Important:** Dr. Campbell has written many textbooks on Biology with numerous editions some of which are used in other University of Manitoba courses. Please ensure you have the correct textbooks before starting the course.
- Texts purchase from the [University of Manitoba Bookstore](#) should include a MasteringBiology Student Access Code Card. The access code is required to access the online materials on the textbook companion website MasteringBiology.com.
- This textbook is also available in an electronic format at the [myPEARSONstore](#). You do **NOT** need to buy the text in more than one version.
- There may be some savings purchasing access to the online materials and the etext together.

Required textbook companion website:

www.MasteringBiology.com.

- An access code is required to access these online materials
- *Note:* If you do not have an access code it can be purchased online using a major credit card.

REGISTERING FOR THE TEXTBOOK COMPANION WEBSITE:

1. Make sure your computer meets the system requirements (see your MC Student Access Kit and http://www.masteringhelp.com/system_requirements.htm). Although MB can be used with Internet Explorer or Safari, using Firefox seems to generate fewer problems.
2. Go to www.masteringbiology.com
3. If you are a first-time user, click on "New Students" and follow the instructions. If you have used MB before, simply login to the system using your previous Login Name and Password.
4. To enroll in your course, enter your 7-digit University of Manitoba student number as your "Student ID" and enter the correct "Course ID" below:

- **MBBIOLOGY1000F15 or W16 (for BIOL 1000) or MBBIOLOGY1010F15 or W16 (for BIOL 1010)**

****You will not be able to register until the first day of class****

5. If you experience technical difficulties with the MasteringBiology online assignment system contact MasteringBiology at this URL: www.masteringbiology.com/site/support/faq-students.html.

Make sure to have your MasteringBiology Student Access Kit or your login name/password handy.

Got Technical Questions?

Visit <http://247pearsoned.custhelp.com> - technical support is available 24/7.

REQUIRED HARDWARE AND SOFTWARE

You require the following items for your computer for this course:

- Computer with speakers

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COURSE OVERVIEW

The course materials will follow the textbook very closely. The major topics addressed are as follows:

Review	Brief Overview	Chapters 2–7
Unit 1	Biodiversity	Chapters 13-20
Unit 2	Plant Form and Function	Chapters 22–24
Unit 3	Animal Form and Function	Chapters 25–34
Unit 4	Ecology	Chapters 35–40

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EVALUATION AND GRADING

DISTRIBUTION OF MARKS

Your final grade will be based on a series of five timed, online quizzes (10%), three assignments worth 15% each (45%) and a final exam (45%).

Evaluation	Percentage
5 Online Quizzes	10%
Assignment 1	15%
Assignment 2	15%
Assignment 3	15%
Final examination	45%
Total	100%

GRADING SCALE

Letter grade	Percentage range	Description
A+	90 – 100	Exceptional
A	80 – 89	Excellent
B+	76 – 79	Very good

B	70 – 75	Good
C+	65 – 69	Satisfactory
C	55 – 64	Adequate
D	50 – 54	Marginal
F	less than 50	Failure

Please note: All final grades are subject to departmental review.

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PLAGIARISM, CHEATING, AND EXAMINATION IMPERSONATION

You should acquaint yourself with the University's policy on plagiarism, cheating, and examination impersonation as detailed in the General Academic Regulations and Policy section of the *University of Manitoba Undergraduate Calendar*.

Note: These policies are also located in your *Distance and Online Education Student Handbook* or you may refer to Student Affairs at <http://www.umanitoba.ca/student>.

Important Note

Students are encouraged to work with other students on the assignments. Working with another student or group of students is a great way to learn. Please be sure that when you hand in your assignment that it is **your** work. You must answer all questions in your own words! When assignments are too similar all students involved will receive a grade of 0 on that assignment.

You must submit a signed copy of the 'Honesty Declaration Individual Work' located in the course website.

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ASSIGNMENTS

ONLINE QUIZZES

Throughout the term there will be 5 bi-weekly, short online quizzes. These quizzes will be available from 12:01 AM to 11:59 PM (Winnipeg time) on the date indicated in the course schedule. Once you login and start the quiz you must complete it by 11:59 PM Winnipeg time. If you log out your quiz is over even if you have not answered all the questions. The dates for the 5 online quizzes are outlined in the course schedule.

ASSIGNMENTS

Each unit has an assignment that is to be completed and submitted for grading. The assignments will be marked on correctness and completeness and will be returned to you showing the mark earned. If you hand in an assignment early it will not be returned until after the due date has passed since other students may submit assignments up to the due date.

Note: Detailed instructions about the assignments are found in your course website.

ASSIGNMENT DUE DATES

Note: Consult your course schedule for the assignment due dates.

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EXAMINATION

The final exam will be written at the University of Manitoba (UM), Fort Garry campus or at an approved off-campus location. **Students needing to write at an off-campus location must declare a location by the specified deadline date** (see off-campus declaration and policy under Student Resources on course homepage). **Students writing at the UM Fort Garry campus do not need to declare an exam location.**

The Registrar's Office is responsible for the [final exam schedule](#) which is available approximately one month after the start of the course.

Your final exam will be two hours long. The format will be the same as the practice final exam found in your course.

A WORD OF CAUTION ABOUT THE ASSIGNMENTS AND THE FINAL EXAMINATION

Some students find that they do very well on the assignments, but they do not do nearly as well on the final examination. While your grades on the assignments will give you some idea of how well you are mastering the material, they may not indicate how well you will do on the examination, because the examination is written under very different circumstances. Because the assignments are open book, they do not require the amount of memorization that a closed-book examination requires nor are they limited to a specific time period. Some students have told us that, based on the high marks they received on the assignments, they were overconfident and underestimated the time and effort needed to prepare for the final examination.

Please keep all this in mind as you prepare for the examination. Look at the sample exam and practice for the examination by setting a time limit and writing out some of the long answers while not having any books available. Pay careful attention to the description of the type of questions that will be on your final examination. Preparing for multiple choice questions involves a different type of studying than preparing for essay questions.

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CONTACTING YOUR INSTRUCTOR

For information on contacting your instructor as well as other important information from your instructor see the Instructor Letter in your course website.

DISTANCE AND ONLINE EDUCATION (DE) STUDENT RESOURCES

In your course website there are links for the following:

- Contacting Distance and Online Education Staff
- Distance and Online Student Handbook
- Distance and Online Education Website

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ACKNOWLEDGEMENTS

CONTENT SPECIALIST:

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Dr. Scott has been an instructor at the University of Manitoba since 2006. He completed his Ph.D. dissertation entitled "*The Role of T-Cells in the Pathogenesis of Small Intestinal Injury and Malfunction in Giardiasis*" at the University of Calgary. His teaching career started in Kelowna, BC, moved to Calgary, AB and **finally settled** in Winnipeg during which time he has taught courses ranging from Introductory Biology, Physiology, Anatomy, Developmental Biology, Parasitology and Immunology.

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