



Biological Diversity (BIOL-1111) Course Outline – Winter 2022

Professor: Dr. Trevor Pitcher (<http://www.uwindsor.ca/pitcher>)

Lectures: Lectures are Tuesdays and Thursdays at 11:30 AM to 12:50 PM or 1:00 to 2:20 PM (depending on your section); recordings of all lectures will be posted on Blackboard, although you are encouraged to participate in live lectures (see ZOOM Live Lecture & Open Learning Session Link on Blackboard). The alternation of live lecture and open learning sessions will follow in the same format as Dr. Cavallo-Medved's class (details about times and dates will be posted under the ZOOM Live Lecture & Open Learning Session Link on Blackboard).

Office hours: Live Zoom Office Hours are Wednesdays from 1:00- 2:00 PM (see ZOOM Live Lecture & Open Learning Session Link on Blackboard).

Contacting Dr. Pitcher: Course-related correspondence should be done via the “**Contact Prof. Pitcher**” link on Blackboard in the Office Hours discussion board on our Blackboard site. This will take you to the “Course Messages” and you can message me with any questions about the course materials (lab questions should be directed to the lab coordinator – see below). I will check the Course messages daily.

Online Laboratories: Lab schedule is below (see the lab related links provided on Blackboard homepage for each section, which will be updated in the coming weeks)

Term tests*: Tuesday February 15, 11:30AM-12:50PM (Section 1 students) or 1:00 to 2:20 PM (Section 2 students)
Tuesday March 17, 11:30AM-12:50PM (Section 1 students) or 1:00 to 2:20 PM (Section 2 students)
*Term exams will occur during normal online class time (specific instructions will follow via announcements)

Final Exam: T.B.D. (scheduled by the registrar, you must write you exam during your respective section)

Course webpage: Accessible through Blackboard: www.uwindsor.ca/blackboard

Textbook: (REQUIRED) - Russell, P.J. et al. **Biology Exploring the Diversity of Life, 4th Canadian Edition**. Nelson Education Ltd. (Note: UWindsor Bookstore has 3 versions: eBook, Looseleaf and Hard Cover. It's up to you which format you prefer.)

Evaluation:

25% . . . Term test 1 (multiple choice format)

25% . . . Term test 2 (multiple choice format)

25% . . . Final exam (multiple choice format)

25% . . . Laboratories (5 labs worth 5% each (for a total of 25%), see details below)

Missed tests/exams: If you miss a term test or the final exam (for reasons approved by Candy Donaldson or myself) your final grades will be pro-rated based on your completed evaluations. During the pro-rating process 25% of the pro-rated mark will come from the lab components that are completed and 75% will come from the exams completed. There will not be make-up tests or make-up exams in this course.

Academic integrity: We will follow a code of academic integrity during this course: “*Students of the University of Windsor pursue all endeavours with honour and integrity, and will not tolerate or engage in academic or personal dishonesty.*” As defined in the Windsor Student Code of Conduct and Senate Bylaw 31 on Academic Integrity, this code covers but is not limited to cheating, plagiarizing or misrepresenting the ideas of someone else, unauthorized assistance/collaboration, and falsifying data.

Lecture Schedule (approx. dates)

Jan 18	Introduction to Course & Evolution: Development of the Theory (CH 16*)
Jan 20/25	Evolution: Development of the Theory (CH 16*)
Jan 27/ Feb 1	Microevolution: changes within populations (CH17*)
Feb 3/8	Speciation & Macroevolution (CH 18*)
Feb 10	Systematics and Phylogenetics (CH 19*)
Feb 15/17	TERM TEST #1 ON February 15 (IN CLASS) & Systematics and Phylogenetics (CH 19*)
Feb 22/24	Winter Reading Week; No classes
Mar 1/3	Humans and Evolution (CH 20*) & Conservation Biology (CH 28*)
Mar 8/10	Conservation Biology (CH28*) & Population Ecology (CH 29*)
Mar 15/17	TERM TEST #2 ON TUESDAY March 17 (IN CLASS); Community Ecology (CH 30*)
Mar 22/24	Ecosystems (CH 31*)
Mar 29/31	Animal Behaviour (CH 32*)
Apr 5/7	Life History (material outside of textbook)
Apr 12/14	Sexual Selection (material outside of textbook)

***Notes:**

(1) Asterisk above in the lecture schedule indicates materials beyond those in the textbook will be used during the lecture. For most chapters I teach the fundamental concept based on textbook materials and then I cover an applied use of the concept using materials from other sources (e.g. peer-reviewed journals, guest appearance, movies, etc..).

(2) In addition to the textbook chapters we will cover together in class (see schedule above) there may also be additional readings from the textbook (& other sources) and movies etc. you will be responsible to read or watch independently and material will appear on the exams.

Participation: Live lectures will be delivered on Zoom (see links in Blackboard) at the regularly scheduled class times. Students are **highly encouraged** to attend live lectures and participate. Lectures will also be recorded and links to the recordings will be posted on Blackboard so that you may review them at your own time.

Student teaching evaluation: SET will be administered during the last 2 weeks of classes.

Laboratory Outline

Laboratory coordinator: Candy Donaldson (Email: candy@uwindsor.ca)

Laboratories: Each student is required to (1) attend all laboratory sessions, either online or in-person (depending on which section you are registered in, see below for details) and (2) complete the lab exercises. You will receive an email in the first two weeks of class with more information about how to join your online lab sections. All lab exercises are to be completed **INDEPENDENTLY**.

Missed labs: If you are going to miss a lab, you must contact Candy Donaldson (candy@uwindsor.ca) to explain your absence prior to your lab session. Candy Donaldson will notify your GA.

Lab Grades: Lab activities are worth 25% of your final grade (5 labs worth 5% each).

Late Lab Assignments: All lab assignments are due at the times indicated by Candy and the GAs. Late assignments will be docked 10% per day. Exceptions will be made when you request a medical exemption from Candy Donaldson (candy@uwindsor.ca) before the lab begins, and if you receive support for the exemption by email.

Participation: Participation for laboratories is **highly encouraged** and can include (among others) 2 major parts: (1) attendance of your lab section and (2) discussion and engagement during session (which includes answering and asking questions – using the chat function or the microphone etc..). GA/TAs will encourage engagement by leading discussions and asking questions. Students are expected to ask questions of the concepts presented at the start of lab and throughout the lab session.

Online lab sessions **will NOT be recorded** so you should make every effort to attend those online sessions. In the case of unavoidable temporary conflicts, it is the students' responsibility to contact Ms. Donaldson prior to the scheduled lab session so that, if possible, alternative arrangements may be made.

Face to Face Lab Schedule (Sections 51-61, in the Bio Learning Centre (BLC) – room 223 Biology Building):

Week	Lab
Jan. 17	NO LABS
Jan. 24	NO LABS
Jan. 31/Feb 2	Lab 1: Web of Science (Online)
Feb. 7-9	Lab 2: Co-evolutionary Biology (Online)
Feb. 14	NO LABS (TERM TEST #1 – Feb 15th)
Feb. 21	Reading Week – NO LABS
Feb. 28 – Mar 2	Lab 3: Evolution, Taxonomy and Phylogeny
Mar. 7-9	Lab 4: Plant Diversity
Mar. 14	NO LABS (TERM TEST #2)
Mar. 21-23	Lab 5: Protist Diversity

Synchronous Online Lab Schedule (sections 63 & 63, see Blackboard for links to join lab):

Week	Lab
Jan. 17	NO LABS
Jan. 24	NO LABS
Jan. 31/Feb 2	Lab 1: Web of Science
Feb. 7-9	Lab 2: Co-evolutionary Biology
Feb. 14	NO LABS (TERM TEST #1 – Feb 15th)
Feb. 21	Reading Week – NO LABS
Feb. 28 – Mar 2	Lab 3: Climate Change
Mar. 7-9	Lab 4: Plant Diversity
Mar. 14	NO LABS (TERM TEST #2)
Mar. 21-23	Lab 5: Protist Diversity