

Evolution

BIOL-3142



Course Outline – Winter 2022

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

Lectures: Live Zoom Lectures are Mondays and Wednesdays from 10:00 to 11:20 AM; recordings of all lectures will be posted on Blackboard, although you are encouraged to participate in live lectures (see ZOOM link on Blackboard)

Office hours: Live Zoom Office Hours are Fridays from 1:00- 2:00 PM (see 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.

Term tests: Wednesday February 16, between 10:00AM-11:20AM (online and during your normal class time)
Wednesday March 16, between 10:00AM-11:20AM (online and during your normal class time)

Final Exam: T.B.D. (scheduled by the registrar)

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

Textbook: (REQUIRED) – Herron J.C & Freeman S. **Evolutionary Analysis, 5th edition.** Pearson Education Inc.

Evaluation:

33% . . . Term test 1 (multiple choice format)

33% . . . Term test 2 (multiple choice format)

33% . . . Final exam (multiple choice format)

Missed tests/exams: If you miss a term test or the final exam (for reasons approved and confirmed by Prof. Pitcher) your final grades will be pro-rated based on your completed evaluations. There will not be 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.

Participation: Live lectures will be delivered on Zoom (see link on 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.

Lecture Schedule (approx. dates)

Jan 17/19	Introduction and Pattern of Evolution (CH 2*)
Jan 24/26	Evolution by Natural Selection (CH 3*)
Jan 31/ Feb 2	Estimating Evolutionary Trees (CH 4*)
Feb 7/9	Variation Among Individuals (CH 5*)
Feb 14/16	Mendelian Genetics in Populations 1 (CH6*); TERM TEST #1 ON February 16
Feb 21/23	Winter Reading Week; No classes
Feb 28/March 2	Mendelian Genetics in Populations 1 (cont'd) & 2 (CH 7*)
Mar 7/9	Evolution at Multiple Loci (CH 8* & 9*)
Mar 14/16	Studying Adaptation (CH 10*); TERM TEST #2 ON March 16 (IN CLASS)
Mar 21/23	Sexual Selection (CH 11*)
Mar 28/30	Evolution of Social Behaviour (CH 12*)
Apr 4/6	Ageing and Life History (CH 13*)
Apr 11/13/18	Speciation (CH 16*), Evolution and Human Health (CH 14*)

***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, research lectures, guest appearance, movies, etc..) and we will also use simulations etc.. to learn more about certain concepts. All of this material will appear on the exams.

(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.

(3) Student evaluations (SET Scores) will take place in the last 2 weeks of the semester.