BIOLOGY 400 – History of Biology

Summer 2024

Department of Biology, University of Victoria

A. Basic Course Information

Course Description

The historical development of the major techniques and ideas of biology, including the significance of the important contributors to biology. The treatment will be part chronological, part topical.

Meetings

A01 (CRN 31196) ±Monday, Wednesday and hursday 10:30 AM ±12:20 PM, David Turpin A110.

We will be talsing a 100 mienoute Sovietable 1271/log & F101n933tn6661/6006442001124.7 t2 /g a 10 men/AUES will be t07Q

Office: 006 Petch

Email: gregoryb@uvic.ca. If you send an email, please put "Biology 400" in the message line.

Phone: 7247140

Office hours: Wednesday, \$12:30 ±2:00 PM, or by appointment, or drop by

Prerequisite

Third year standing.

Readings

I will post pdfs of selected readings on the Brightspace site when they become relevant as we

Course Topics (tentative)

Introduction

The roots of biology

Biology in the ancient world

The Islamic world and medieval Europe

Hidden and mythical organisms

The human body: the Scientific Revolution and after

The early days of microscopy

Biology and the emerging physical sciences: chemistry

Describing and arranging organisms

Biology and the emerging physical sciences: geology

Evolution before Darwin

Darwin

Cells, theunits of life

Heredity

Evolution and genetics come together

The hereditary material

TD Lysenko and Soviet biology

B. Evaluation

Components of your course grade Packback participation

Please do not ask me to raise your percent grade in order to qualify you for a higher letter grade.

You will receive an F in the courseyour aggregate grade is less nits % (rounded to the nearest whole number). It is not necessary to the sadividual course components the Packback component, the dterm or the final exam± in order to pass the course.

You will receive an N in the coursifeyou miss the final exam infuneand do nowrite a deferred final exam

No supplemental final exam (secodolance final exam) will be given in this course, although, as described above, you may defer the final exam for any of the reasons given.

C. Packback

What is it?

Packback is an online platform for discussion among students. Yoluewithntacted by the company about signing up.

Since Biology 400 has only thirgear standing as a prereq, there are students from many different academic backgrounds registered here. That has always been one of the strengths of the course and one of its pleasures to mediate Packback will be able to bring together students with different knowledge, ideasiewpointsand values

Cost

The cost is \$9+tax(CAN).

How it works, what you will do, and how you will be assessed

The idea behind the platform is theteryweek you will post

- x one discussion question related to the course material in some way
- x threeresponses tquestionsposted byother students

Each question and response is worth 3 poliots total of 12 points everyweek $< RX GRQ \PW KD$ to respond only to questions posted be current be earlier questions.

You should participate uring everyweekly cycle < R X F Da Cy file slide behold then post 2 questions and responses in the next cle.

The questionand response LOO EH DVVHVVHG IRU WKHLU TXDOLW\ E\ that pertain to specific, easily okuppable matters getlow scoremore operended questions VFRUH KLJKHU 7KH VFRUH D SRVW JHWV LV FDOOHG LWV 3 curiosity score at 60which will be fairly easy to achiev After the AI tells you what it thinks of your question or response, you may edit and improve it. It is only your edited post that will count, or your original post if you choose not to edit.

If the AI thinks your final post deserves a score of 60 or more, you get 3 points in the course grade book for that post. If your post goes below this 60 minimum, you will get 1.5 points. If you do not post at all that yele, you get 0 points.

Although I have to allot marks for your Packback participation on should not be sabout marks the wayyou might before a test The minimum curiosity score of 60 is quite modes important thing is to enjoy participating in the discussions.

Your participation in Packback will be wort \(\delta \gamma \) of your course grade.

:KHQ \RX ORJ LQ WR 3DFNEDFN WKHUH ZLOO EH D EXWWRQ started.

Packback Deadlines

The deadline for your one question **ahr**eeresponse**s**very weekis Saturday at 11:59 PM, PDT. The full list of deadlines:

SaturdayMay 18, 11:59 PM (PDT) ±1 question, 3 responses SaturdayMay 25, 11:59 PM (PDT) ±1 question, 3 responses SaturdayJune 11:59 PM (PDT) ±1 question, 3 responses SaturdayJune 8,11:59 PM (PDT) ±1 question, 3 responses SaturdayJune 15,11:59 PM (PDT) ±1 question, 3 responses SaturdayJune 22,11:59 PM (PDT) ±1 question, 3 responses

A few more notes

If you post your question earling the week you have a greater chance that other students will respond to it., $W \parallel V DOZDV JUDWLIVLQJZKHQDQRWKHUVWXGHQW$ post are sponse.

I will not be looking at all your posts, but I will be reading some of inthe is is for my own interest., ZRQ \P W JHW XSVHW LI, UHDGI Will Rhet in the GLVDJUHHV\VWHP \P V JUDGLQJ

When you post either a question or a reply, please try to bear inamic plractice the valuable academic habit of respectful, impersonal discourse.

- $x 'RQ \PW XVH IR(\partial f Cou G e D).QJXDJH$
- x 'RQ¶W LQVXOW DQ\ SHUVRQ RU DQ\ JURXS RI SHRSOH group of people; disagreemetnyt itself is not insultand is not³ YHUEDO . YBLLTROHQFH 'GRQ¶W FDOO SHRSOH QDPHV
- x 'RQ¶W DWWULEXWH VRPHRQH¶V VWDWorthdentityQ Welk XR¶U MDOX MXVW VD\LQJ WKDW EHFDXVH \RX DUH DQ; ´ 7KLV LV E disrespectfustereotyping and assumes the person to be no more than a mindless member of a group, rather than a thinking individual. And two, it commaits gical fallacy, the

Genetic Fallacy (evaluating the truth value of a statement according to who says it, or their motive for saying it, instead of the evidence for or against it).

- x Practice humility. You're not right about everything. Nobod**\(\mathbb{M}\) is** one of the things you are wrong about.
-) LQDOO\ GRQ¶W sarheo GybuV questions that nobody responded to. Some questions attract more responses than others, but this does not necessarily reflect on the quality of the question.
- , ¶YH LQFOXGHG VRPH cbr@plaRybhRhDe Wast peagle of tital non-new to register, and it directs you to a YouTube video you show at the.

D. Important Dates

On the UVic website you will find a fuller list of