BIOLOGY 3FF3 Evolution

Time
2018 Fall term

Coordination
person: Doc Roc
office: LSB 327
telephone number: 905-525-9140 (+26136)
e-contact: use avenue to learn course folder Discussion Tool

Objectives
Successful participants synthesise and apply the main theoretical concepts and evaluate and analyse the major empirical observations related to evolution upon completing this course.

Topics
Course content could include items presented subsequently:

Introduction
   The Pattern of Evolution
   Evolution by Natural Selection
   Estimating Evolutionary Trees
Mechanisms of Evolutionary Change
   Mendelian Genetics in Populations I: Selection and Mutation
   Mendelian Genetics in Populations II: Migration, Genetic Drift, and Nonrandom Mating
   Evolution at Multiple Loci: Linkage and Sex
   Evolution at Multiple Loci: Quantitative Genetics
Adaptation
   Studying Adaptation: Evolutionary Analysis of Form and Function
   Sexual Selection
The History of Life
   Mechanisms of Speciation
   Development and Evolution
   Human Evolution.

Resources
New York: Prentice Hall.

e-learning management tool: an ‘information and repository’ course folder is accessible via the McMaster University Centre for Leadership in Learning Internet site, at the URI http://avenue.mcmaster.ca (the software avenue to learn will be used); course participants must be familiar with how to use this resource.
Core
Core sessions are delivered in ITB 137 on Mondays, Wednesdays, and Thursdays from 1030 to 1120.

Tutorial
Tutorials sessions usually start with teaching assistants answering questions or addressing issues related to core material and thereafter generally involve informal (enjoyable) activities, which could include games, ‘practicals,’ or discussions.

Evaluation
A 100 point scale is implemented for evaluation. The final grade is calculated as a sum over the components listed immediately below;

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>online quizzes</td>
<td>10</td>
</tr>
<tr>
<td>reports (major and minor)</td>
<td>15</td>
</tr>
<tr>
<td>assessments</td>
<td>15</td>
</tr>
<tr>
<td>tutorial assignments</td>
<td>30</td>
</tr>
<tr>
<td>examination</td>
<td>30</td>
</tr>
</tbody>
</table>

It then is converted trivially to a percentage and thence to the McMaster University 12-point grading system.

Messages From University Administration
1. Academic Integrity – course participants are expected to exhibit honesty and use ethical behaviour in the learning process. Academic credentials earned are rooted in principles involving honesty and academic integrity.

   Academic dishonesty is defined as knowingly acting or failing to act in a way that results or could result in unearned academic credit or advantage. Engaging in this behaviour can result in serious consequences (e.g., zero grade for an evaluation component item), missed course credit with a notation on academic transcript (reading “Grade of F assigned for academic dishonesty”), or suspension or expulsion from the university.

   Course participants are responsible for understanding what constitutes academic dishonesty. Access the Academic Integrity policy by surfing to the URI www.mcmaster.ca/academicintegrity to acquire additional information; common instances include
   • plagiarism (e.g. submitting work completed by another person or for which credit already has been obtained);
   • improper collaboration in group work;
   • copying or using unauthorised aids in tests and examinations.

2. Authenticity-Plagiarism Detection – Internet-based services (e.g., Turnitin.com) might be used to reveal authenticity and ownership for submitted work. Course participants may be requested to submit work electronically either directly to a service or via the
avenue to learn system plagiarism detection service (supported by Turnitin.com) so that work can be checked for academic dishonesty.

Course participants who refuse to submit work through Turnitin.com or avenue to learn will be required to submit an electronic or hardcopy version to Doc Roc; no penalty will be assigned to these course participants. All submitted work is subject to normal verification that academic integrity standards have been upheld. Access the Turnitin.com policy by surfing to the URI www.mcmaster.ca/academicintegrity to acquire additional information.

3. Online Element – Course participants should be aware that private information such as first and last names, user names for McMaster University e-mail accounts, and program affiliation may become apparent to other course participants in the course via the electronic components in this course. Information available is dependent on the technology used. Continuation in this course will be deemed consent to this disclosure.

4. Academic Accommodation for Course Participants with Disabilities – Course participants with disabilities who require academic accommodation must contact Student Accessibility Services to make arrangements with a program coordinator. Student Accessibility Services can be contacted by telephone (905-525-9140 x. 28652) or email (sas@mcmaster.ca). Access the Academic Accommodation of Students with Disabilities policy by surfing to the URI https://www.mcmaster.ca/policy/Students-AcademicStudies/AcademicAccommodation-StudentsWithDisabilities.pdf to acquire additional information.

5. Request for Relief from Missed Academic Work (McMaster Student Absence Form) – Course participants should review and follow the Academic Regulation in the Undergraduate Calendar “Requests for Relief for Missed Academic Term Work” in circumstances involving missed work or absence for medical or other reasons.

6. Academic Accommodation for Religious, Indigenous, or Spiritual Observances (RISO) – Course participants requiring academic accommodation based on religious, indigenous, or spiritual observances should follow the procedures set out in the RISO policy. Course participants requiring a RISO accommodation should submit their request to their faculty office normally within 10 working days of the beginning of term in which they anticipate a need for accommodation or to the Registrar's Office prior to their examinations. Course participants also should contact their instructors as soon as possible to make alternative arrangements for classes, assignments, and tests.

7. Extreme Circumstances – the university reserves the right to change dates and deadlines for any or all courses in extreme circumstances (e.g., severe weather, labour disruptions). Changes will be communicated through regular McMaster University communication channels, such as McMaster Daily News, McMaster University email, or the avenue to learn system.