**Instructors**

**Lecture:**
- Dr. John Stavrinides  LB 250
  - e-mail: john.stavrinides@uregina.ca
- Dr. Harold Weger  LB 255
  - e-mail: harold.weger@uregina.ca

**Laboratory:**
- Ms. Heather Dietz  LB 414.2
  - e-mail: heather.dietz@uregina.ca

E-mail is the preferred way to communicate with the instructors, but please don’t use the e-mail/messaging system within UR Courses; simply use the above listed e-mail addresses.

**Lectures:** MWF 1:30 PM - 2:20 PM, Classroom Building Rm 110 (CL 110)

**Labs:** Lab Building Rm 411.2 (LB 411.2)

**Text (optional):**
Reece, Urry (and 9 other authors). 2017. *Campbell Biology*, 2nd Canadian Edition. (Used copies of the 7th – 9th editions are also acceptable, as is the 1st Canadian Edition). The textbook is available in the Bookstore (both new and used textbooks). Use of a textbook is recommended. See “More Information about Textbooks” below.

**Lab Manual (required):**
Biology 101 Laboratory Manual (Winter 2020 Edition); this is available for download on the lab website (URCourses).

**Grading:**
- Midterm Exam #1 12.5%
- Midterm Exam #2 17.5%
- Laboratory (see lab description below) 30%
- Final Exam 40%

The final exam covers the entire course. Students must attend all laboratory sessions. Please note that this course falls under the Academic Regulations of the University of Regina and the Faculty of Science (these regulations are printed in the General Calendar, available at www.uregina.ca/gencal/ugcal/).

**Specialized Accommodations:** Students in this course who, because of a disability, may have need for specialized accommodations, should please contact the Centre for Student Accessibility (Riddell Centre 251.15, 585-4631, www.uregina.ca/student/accessibility/) and should discuss these accommodations with the instructor(s). Please note that instructors do not have the authority arrange for any accommodations independent of the Centre for Student Accessibility.

**Important Dates:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Jan. 6</td>
<td>First day of BIOL 101 lectures</td>
</tr>
<tr>
<td>Week of Jan. 13</td>
<td>BIOL 101 labs begin</td>
</tr>
<tr>
<td>Jan. 17 (F)</td>
<td>Last day to drop a course without a grade of “W”</td>
</tr>
<tr>
<td>Jan 31</td>
<td>Midterm Exam #1</td>
</tr>
<tr>
<td>Feb. 17-21</td>
<td>Winter Break</td>
</tr>
<tr>
<td>Mar. 11 (W)</td>
<td>Midterm Exam #2</td>
</tr>
<tr>
<td>Mar. 16 (M)</td>
<td>Last day to drop a course with a grade of “W”</td>
</tr>
<tr>
<td>Week of Mar. 30</td>
<td>Lab Exam</td>
</tr>
<tr>
<td>Apr. 8</td>
<td>Last day of BIOL 101 lectures</td>
</tr>
<tr>
<td>Apr. 13 (M)</td>
<td>First day of final exams</td>
</tr>
<tr>
<td>Apr. 17</td>
<td>BIOL 101 Final Exam (2pm; 2 hours)</td>
</tr>
</tbody>
</table>
Lecture Outline:
This chart represents an approximate lecture schedule, indicating the order of topics to be covered, the relevant chapters in the textbook (Campbell Biology; chapter numbers refer to the 2nd Canadian edition), and the approximate date of the lecture. For some of the topics, the text provides much greater detail than the lectures. You are responsible for understanding the material at the level of detail provided in the lectures.

<table>
<thead>
<tr>
<th>Week of</th>
<th>Topic</th>
<th>Chapters</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan 6</td>
<td>Introduction, Origin of Life, Phylogeny, Bacteria and Archaea</td>
<td>25, 26, 27</td>
</tr>
<tr>
<td>Jan 13</td>
<td>Bacteria and Archaea, Microbial Ecology</td>
<td>8, 9, 10, 27</td>
</tr>
<tr>
<td>Jan 20</td>
<td>Microbial Ecology, Genetics</td>
<td>17, 18, 27</td>
</tr>
<tr>
<td>Jan 27</td>
<td>Biotechnology, Viruses</td>
<td>19, 20</td>
</tr>
<tr>
<td>Feb 3</td>
<td>Exam I, Protista</td>
<td>27, 37, 28</td>
</tr>
<tr>
<td>Feb 10</td>
<td>Protista, Fungi</td>
<td>28, 31</td>
</tr>
<tr>
<td>Feb 17</td>
<td>WINTER BREAK</td>
<td></td>
</tr>
<tr>
<td>Feb 24</td>
<td>Plant diversity: Nonvascular, Seedless Vascular, Gymnosperms</td>
<td>29, 30</td>
</tr>
<tr>
<td>Mar 2</td>
<td>Plant diversity: Angiosperms, Plant Form and Function: Growth</td>
<td>30, 35</td>
</tr>
<tr>
<td>Mar 9</td>
<td>Plant Form and Function: Reproduction and Nutrition, Exam II</td>
<td>36, 37, 38</td>
</tr>
<tr>
<td>Mar 16</td>
<td>Animal diversity: Invertebrates and Vertebrates</td>
<td>32, 33, 34</td>
</tr>
<tr>
<td>Mar 23</td>
<td>Animal Form and Function: Growth and Reproduction</td>
<td>41, 46, 47</td>
</tr>
<tr>
<td>Mar 30</td>
<td>Ecology: Populations, Communities</td>
<td>53, 54</td>
</tr>
<tr>
<td>Apr 6</td>
<td>Ecology: Communities, Ecosystems</td>
<td>54, 55</td>
</tr>
</tbody>
</table>

Other Notes:
1) Biology majors should take CHEM 104, CHEM 105 and CHEM 140 as early as possible in their B.Sc. program.
2) Students looking to take an elective Biology course are welcome in BIOL 101, but should also consider BIOL 140 or BIOL 150 (BIOL 100 and 101 are majors Biology courses).

Policies and Procedures for BIOL101
1) There are no make-up mid-term exams. Marks for the missed mid-term exam will be reallocated to the final exam. Students who miss either of the two lecture mid-term exams, or the lab exam, must provide a valid reason supported by documentation.
2) Students will write lab exams in the section in which they are registered.
3) "Deferred" final exams can only be granted by the Associate Dean, Academic (for Faculty of Science students), or by the Deans and/or Associate Deans of other Faculties or Federated Colleges. Deferred final exams cannot be granted by the course instructors.
4) Dictionaries (paper or electronic) are not allowed to be used during exams; there are no exceptions to this rule. Cell phones and all other electronic devices must be turned off and be out of sight during exams.
5) The grading scheme for the course is the same for all students in the course. There is no opportunity to boost a grade by doing "extra work", and grade allocations to the various mid-terms etc. will not be adjusted.
6) Attendance in each laboratory session is mandatory. If you miss a laboratory session (with a valid excuse), contact the Lab Coordinator, Ms. Dietz (heather.dietz@uregina.ca). You must attend the lab section in which you are registered. You may attend a different day or time only under special circumstances, only with documentation and only with the permission of the Lab Coordinator.
7) For students who have previously taken the course and wish to apply for an official “lab exemption”, the minimum lab grade for an exemption is 70%.
**Laboratory Schedule:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Lab topic</th>
<th>Assignment Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jan. 13-16</td>
<td>Online Introductory Lab (pre-lab)*</td>
<td>Introductory pre-lab assignment (due online, before Jan. 11 at midnight)*</td>
</tr>
<tr>
<td></td>
<td>1 – Essential Skills in Biology</td>
<td>Lab 1 pre-lab assignment (due online, before the start of your lab session)</td>
</tr>
<tr>
<td>Jan. 27-30</td>
<td>2 – Microbes</td>
<td>Lab 2 pre-lab assignment (due online, before the start of your lab session)</td>
</tr>
<tr>
<td>Feb. 10-13</td>
<td>3 – Macro-organisms</td>
<td>Bioinformatics team project (due in lab before the end of lab)</td>
</tr>
<tr>
<td>Feb. 24-27</td>
<td>4 – Experimental Science</td>
<td>Lab 4 pre-lab assignment (due online, before the start of your lab session)</td>
</tr>
<tr>
<td>Mar. 2-5</td>
<td>Data collection for Lab 4</td>
<td></td>
</tr>
<tr>
<td>Mar. 9-14</td>
<td>RSM Trip (data collection for Lab 5)</td>
<td>Individual Lab Report (due online, before the start of your lab session.)</td>
</tr>
<tr>
<td>Mar. 23-26</td>
<td>5 – Field Science</td>
<td>Environmental Assessment team project (due in lab before the end of lab)</td>
</tr>
<tr>
<td>Mar. 30-Apr. 2</td>
<td>Final Lab Exam</td>
<td></td>
</tr>
</tbody>
</table>

*Due prior to the first week of laboratories.*

The week before each lab, Ms. Dietz posts lab materials: prelab questions, lab instructions (both text and video) and background information on the UR Courses lab website. Students are required to submit all prelab assignments online before their lab start time. Students are strongly advised to print out the week’s lab PDFs and bring them to the lab.

**Policies for the BIOL101 Laboratory room (LB411.2)**

1) No food or drink is allowed in the laboratory; this includes chewing gum. There is a small table outside the lab where drinks may be temporarily placed.

2) Students require a lab coat for Labs 1-5. Lab coats may be purchased from UR Stores (first floor of the Research and Innovation Centre).

3) Do not wear personal protective equipment (PPE; e.g. lab coats, safety glasses, gloves) outside of the lab.

4) Using a device to send or receive calls or texts is not allowed during lab time, except in cases of emergency. Documentation may be required.

5) Unsupervised work outside of lab hours is forbidden.
More Information about Textbooks
Student evaluation forms from previous years have made it very clear that some students find a textbook invaluable in BIOL 100, while other students consider a textbook unnecessary. Similarly, some students who have bought new textbooks consider the most useful part of the textbook to be access to the material on the publisher’s website. Others consider the publisher’s website to be of marginal utility. So, what to do about the textbook? To buy one or not to buy one? It really depends upon you as an individual, and your learning style. Comments about the textbook from previous course evaluations range from “The textbook is extremely useful” to “If you take good notes in class, then you don’t really need it”. The instructors of this course suggest using a textbook, but it is not obligatory.

The official textbook for this course is “Reece et al.; Campbell Biology, 2nd Canadian edition (2017).” New copies of the textbook may be purchased at the UofR Bookstore. Another option is to purchase a used copy of the 1st Canadian edition, 8th or 9th non-Canadian edition. As well, used copies of the 6th or 7th edition are also fine. However, as the name and authors of the textbook keep changing, thus it can be confusing when trying to figure out which textbook to buy. The 9th edition and the Canadian edition are both called Campbell Biology, by Reece et al.; the 8th edition is called Biology, by Campbell, Reece, & five others.

Copies of various editions of the text, and copies of other standard Biology textbooks are available for use in the LB 411 during most lunch hours with advance permission from Ms. Dietz (heather.dietz@uregina.ca).

Lastly, there is an open access Biology majors textbook (in PDF and web form). A link to the textbook is available on the BIOL 101 website, and the PDF may be downloaded from: https://openstax.org/details/books/biology, or http://open.bccampus.ca/find-open-textbooks/. The open access Biology majors textbook is Biology 2e, not Concepts of Biology (which is the non-majors textbook).

In summary, there are many different options for dealing with textbooks in BIOL 101.

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UR Courses for BIOL 101: There are two websites for the course.

Biology 101 UR Courses lecture website:
- **Forums** (a.k.a. Discussion Boards) – These are places to ask questions about the lecture material (“Lecture Questions”) as well as to chat with other students about non-biology topics (“Coffee Shop”). You may also use the Lecture Questions Forum as study tools. Both questions and answers are accessible to everyone in the course, and we encourage students to post questions (if you have a question about a topic, chances are that someone else also has that question, so post it!).
- **Lecture Slides** – Dr. Stavrinides posts PowerPoint slides with partial lecture notes. Dr. Weger posts slides that are mainly images related to lecture; students will need to attend lecture and take good lecture notes.
- **Other Useful and Important Info** is also on the course website.

Biology 101 UR Courses lab website:
- Lab Manual and associated materials
- Assignment information and submission instructions
- Lab forums
- Study resources

Getting help with UR Courses
There are two ways to get general help with the Biology 101 UR Courses websites: E-mail IT.Support@uregina.ca or phone (306) 585-4685.
University of Regina Counselling Services
(http://www.uregina.ca/student/counselling/)

Counselling Services is part of the University of Regina’s Office of Student Affairs. Counselling Services offers a wide variety of workshops (e.g. exam study strategies and skills), counselling and other services:

- Personal Counselling, including issues with stress
- Group Counselling
- Workshops (e.g. assertiveness training, body image, procrastination, disordered eating, stress management, and others)

This is a valuable resource for students (and much more information is available via their website).

University of Regina Student Success Centre
(http://www.uregina.ca/student/ssc/)

Part of the Office of Student Affairs, the Student Success Centre offers:

- Math and Stats Support
- Writing Support
- Student Success Workshops
- One on One Learning Skills Consultations
- Strategies & Skills for Academic Excellence
- And much more

University of Regina Career Centre
(http://www.uregina.ca/careercentre/)

- Career Exploration and Counselling
- Cooperative Education & Internships
- Student Employment Services

Program/Academic/Pre-Professional Advising

Academic advising (about programs and majors, and about pre-professional programs) is available to both UofR and federated college (First Nations University, Campion College and Luther College) students. For federated college students, advising appointments are made via the appropriate Registrar’s Office and/or Academic Advising Office. For UofR students who have questions about the Biology BSc program, book an advising appointment via Biology (contact the Biology Main Office [LB 244; 585-4145]), and advising about pre-professional programs is available is available via Science Student Services (science@uregina.ca; 306-585-4199; LB 238).
Student Code of Conduct

There is a huge emphasis on academic integrity at Canadian universities these days. The Undergraduate Calendar (available on the UofR website) is a very good source of information about academic integrity (and misconduct), and the section below is reproduced from the Calendar: Information regarding academic integrity as it pertains to lab reports and other written assignments in BIOL101 may be found at http://urbiolabreports.wikidot.com/plagiarism.

From the Undergraduate Calendar (https://www.uregina.ca/student/registrar/resources-for-students/academic-calendars-and-schedule/undergraduate-calendar/index.html):

Acts of Academic Misconduct
Acts of academic misconduct include acts which contravene the general principles of Academic Integrity. Some of these acts are described below. Others which are not explicitly described here may also be considered academic misconduct. All forms of academic misconduct are considered serious offences within the University community.

Cheating on Tests or Examinations
Cheating constitutes academic misconduct. Cheating is dishonest behaviour or the attempt to behave dishonestly. It includes, but is not limited to:

- using books, notes, diagrams, electronic devices, smart devices, or any other aids during an examination, either in the examination room itself or when permitted to leave temporarily unless explicitly authorized by the course instructor or examiner;
- copying the work of other students;
- communicating with others during an examination to give or receive information, either in the examination room or outside it or through the use of electronic communication devices;
- consulting others on a take-home examination unless authorized by the course instructor;
- commissioning or allowing another person to write an examination on one’s behalf;
- not following the rules of an examination;
- using for personal advantage, or communicating to other students, advance knowledge of the content of an examination;
- altering answers on an assignment or examination that has been returned;
- removing an exam or exam related materials from the examination room if not permitted to do so.

Note: In all cases of misconduct during an examination students will have a notation made in the examination booklet detailing the type of behavior observed, the date, and the time.

Plagiarism
Plagiarism is a form of academic misconduct where the work of another person is submitted without acknowledgement, whether from intent to deceive, lack of understanding, or carelessness. It is expected that students will examine and refer to the ideas of others unless the course instructor states otherwise. These ideas must be incorporated into the student’s own analysis and must be clearly acknowledged through citations, footnotes, endnotes, or other practices accepted by the academic community. Students’ use of others’ expression of ideas, whether quoted verbatim or paraphrased, must also be clearly acknowledged according to acceptable academic practice. It is the responsibility of each student to learn what constitutes acceptable academic practice in each class. Plagiarism includes, but is not limited to, the following practices:

- not acknowledging an author or other source for one or more phrases, sentences, thoughts, code, formulae, or arguments incorporated in written work, software, or other assignments;
- presenting passages and/or portions of another person’s paper, report, piece of software, etc., as an assignment for credit, even if that paper or other work is cited as a source in the accompanying bibliography or list of references. This includes copying sources of information found on the Internet;
Students who are uncertain of what plagiarism is are encouraged to discuss it with their instructors and should consult the vast resources available on this topic that can be found on the internet and in most libraries. The APA and MLA citation guides are also valuable sources of information but students may need to consult other sources of information to follow the format required by their instructor.

Other Forms of Academic Misconduct
In addition to the matters described above, academic misconduct subject to discipline also includes, but is not limited to, the following:

- copying the work of others;
- falsifying lab results;
- adding entries to a bibliography with works not read or used;
- enabling another student in an act of academic dishonesty; for example, writing a test or paper for someone else, or preparing materials for another student’s studio project;
- providing false or incomplete information or supporting documents/materials on an application for admission, re-admission, or transfer;
- providing false information to obtain a deferral of term work or examination;
- using a fictitious name and/or id number on an examination;
- altering or falsifying, or attempting to alter or falsify, grade information or other records of academic performance (one’s own or someone else’s);
- obtaining or attempting to obtain an academic advantage by non-academic means such as bribes or threats;
- hindering other students in obtaining fair access to University materials and facilities;
- theft of another student’s notes;
- alteration or destruction of the work of other students;
- behaviour that interferes with the evaluation of another student’s work, such as failure to participate in a group project;
- submitting the same work for credit in more than one course. Students who wish to submit work they have prepared for another course must consult the current course instructor(s) and receive permission to do so;
- working jointly, with another student or group of students, on an assignment that is to be graded if no explicit instructions are given by the instructor about group work. Students who wish to work together must request the instructor's permission in advance;
- misleading or plagiarized statements on scholarship or grant applications.

Non-Academic Misconduct
Acts of Non-academic misconduct include, but are not limited to, the following (“Violations”):

- a violation of the published rules, regulations, practices, procedures, or policies of the University or of any authorized rule-making body within the University, including all academic and administrative units, any residence, and a violation of any professional code of conduct applicable to a student’s faculty or department;
- theft, vandalism, and willful or negligent damage to the property of the University or of a member of the University community, the Student’s Union, or any other university organization;
- disruption of instructional activities (being any conduct which makes it difficult to proceed with scheduled lectures, seminars, discussion group meetings, and related activities, or with examinations, tests, or use of library, laboratory, or research facilities);
- assault of any nature, or the threat of any assault;
- the unauthorized use or the misuse of any university facilities, equipment, or services;
• the violation or breach of any Federal, Provincial, or Municipal laws, so far as they are relevant to student conduct;
• harassment or discrimination in contravention of the principles articulated in the policies of the University, The Saskatchewan Human Rights Code, or the Canadian Charter of Rights and Freedoms;
• illegal drug use and/or distribution of illegal drugs;
• refusal to produce a University issued student identification or government issued photo identification when asked to do so by a University officer or staff member;
• the failure to comply with the directions of officials of the University acting within the scope of their authority;
• any conduct which harms or threatens to harm the proper functioning of university programs or activities, the rights of members or guests of the University, the safety or well-being of members or guests of the University, or the property of the University, its members and guests;
• falsification or misuse of university records for improper or fraudulent purposes.

The reporting of a Violation, an investigation, and the assignment of discipline hereunder shall not disentitle an individual from seeking recourse or making a complaint under any other university policy, nor does the bringing of any complaint under the university policy prevent the University from investigating any violation and imposing any discipline hereunder therefore. All rights and remedies under all university policies are cumulative, and a student may be subject to discipline for a violation under more than one policy, code of conduct, regulation, or procedure of the University or any authorized rule-making body within the University, including all academic and administrative units, residences, faculties, or departments.

It is recognized that an offence can be of one or more of a criminal, non-academic, and academic character, (e.g. theft of a key to obtain a copy of an examination paper). In these cases it is understood that both academic and non-academic discipline, and criminal penalties may arise.

**Reporting Non-Academic Misconduct**
Any individual may report a Violation to:
- Campus Security;
- the dean of the student’s faculty;
- the manager of the student’s residence; or
- any other appropriate University officer or administrator such as a Vice President, an Associate Vice President, a Dean, the Registrar, or a Department Director.

Consequences of academic/non-academic misconduct are also outlined in the Undergraduate Calendar, as are the processes for dealing with misconduct.

One important point about plagiarism that many students don’t think about is that *it is possible to plagiarize yourself*. If a student is taking a course for the second time, it is not acceptable to re-submit work that was done in the first attempt. As well, coursework from other courses cannot be submitted to BIOL 101. This means that *all work submitted in BIOL 101 must be new and original.*

Please note that BIOL 101 uses Turnitin ([https://www.turnitin.com/](https://www.turnitin.com/)) for **all assignments**. This means that all student work is checked for similarity to other work (from BIOL 101 and other courses from other schools) and to various websites and publications.