



## COURSE OUTLINE

### 1. **Course:** ZOOL 581, Principles in Parasitism - Winter 2022

Lecture 01 : MWF 11:00 - 11:50 in TI STUDIOB

Instructor	Email	Phone	Office	Hours
Dr Constance Finney	camfinne@ucalgary.ca	TBA	TBA	By appointment

To account for any necessary transition to remote learning in the winter 2022 semester, courses with in-person lectures, labs, or tutorials may be shifted to remote delivery for a certain period of time. In addition, adjustments may be made to the modality and format of assessments and deadlines, as well as to other course components and/or requirements, so that all coursework tasks are in line with the necessary and evolving health precautions for all involved (students and staff).

#### In Person Delivery Details:

##### LECTURE ORGANIZATION (recommended attendance)

ZOOL 581's lecture content is designed to be read **asynchronously** through thematic online D2L modules. During the scheduled lecture time, we will have **synchronous online or in person** discussions and collaborative active learning activities to accompany the posted lecture module content. Please refer to your course schedules for the dates of our synchronous meetings. These will vary from once a week to three times a week.

Discussions can also take place asynchronously through the course discussion boards which we will monitor.

During the first week of the course, we will have a "Welcome to ZOOL581" lecture outlining the syllabus and course details. During the last week of the course we will have a review session to go over any material that is unclear. Attendance to both these sessions is highly recommended.

You should plan for approximately **3 hours to complete the course reading each week**, and up to **3 hours to participate in synchronous weekly discussions and activities**.

**Asynchronous Activities.** Online module materials will be posted at least one week before class discussions so that you can work through and complete the associated quizzes (see Course Schedule on D2L).

**Synchronous (during scheduled lecture times):** During each week of the semester, we will meet synchronously in person or on zoom as a class. During the first week of the semester, we will have a synchronous "Welcome to ZOOL581" lecture (Monday), as well as our first in class discussion (Friday). Until reading week, we will meet synchronously online on Fridays only. During the rest of the course (pandemic restrictions permitting), we will meet together in person for thematic discussions and practice assignments three times a week at the scheduled lecture times. If conditions are such that we must maintain online rather than in person learning, we will continue with weekly zoom meetings. Attendance is strongly recommended to all synchronous activities. To encourage discussion, sessions will not be recorded but notes will be made available upon request. During the last week of the course we will have a review session to go over all the material.

Workshops: Due to the interactive activities that require group participation, synchronous **attendance is strongly recommended** to these workshops, where we will go through and practice the types of assignments that will come up in your midterm and/or final exams. Attendance to all thematic discussions is strongly recommended. If you are unable to attend a session/workshop, please contact the instructor immediately. When possible, materials/notes from the sessions will be posted following the session.

##### LAB ORGANIZATION (mandatory attendance)

ZOOL581 labs will be online until reading week and in person (after reading week, if permitted). Lab exercises and readings are designed to be completed both asynchronously and synchronously. The labs are scheduled as synchronous activities on Tuesdays (see Calendar on D2L for details).

It is recommended that you work on lab exercises and participate during the lab sessions as much as you can. The GTAs and Dr Finney will be there to answer questions, moderate discussions and help you with the material and assignments.

*Asynchronous.* Lab readings will be provided before the lab sessions. You will be expected to complete the readings in your own time before the lab.

*Synchronous.* During the scheduled lab time, you will have some time with your GTAs and Dr Finney to go over the material and exercises. Attending the labs is mandatory. If you are unable to attend a lab session, please contact the instructor/GTAs immediately.

#### Re-Entry Protocol for Labs and Classrooms:

To limit the spread of COVID-19 on campus, the University of Calgary has implemented safety measures to ensure the campus is a safe and welcoming space for students, faculty and staff. The most current safety information for campus can be found [here](#). **Online Delivery Details:**

This course is being offered online in real-time via scheduled meeting times, you are required to be online at the same time.

To help ensure Zoom sessions are private, do not share the Zoom link or password with others, or on any social media platforms. Zoom links and passwords are only intended for students registered in the course. Zoom recordings and materials presented in Zoom, including any teaching materials, must not be shared, distributed or published without the instructor's permission.

Changes in the COVID-19 pandemic guidelines during the semester may result in a switch from in person to online learning.

**Course Site:**

D2L: ZOOL 581 L01-(Winter 2022)-Principles in Parasitism

**Note:** Students must use their U of C account for all course correspondence.

**Equity Diversity & Inclusion:**

The University of Calgary is committed to creating an equitable, diverse and inclusive campus, and condemns harm and discrimination of any form. We value all persons regardless of their race, gender, ethnicity, age, LGBTQIA2S+ identity and expression, disability, religion, spirituality, and socioeconomic status. The Faculty of Science strives to extend these values in every aspect of our courses, research, and teachings to better promote academic excellence and foster belonging for all.

The Biological Sciences Equity Committee acknowledges there are persistent barriers that prevent such accessibility and hinder our progress towards EDI. Our representatives (faculty, staff, postdocs, graduate and undergraduate students) are committed to addressing any concerns and work towards proactive solutions that enact necessary change within the department. To submit anonymous questions, comments or concerns regarding EDI related issues, please reach out to our Chair, Constance Finney ([constance.finney@ucalgary.ca](mailto:constance.finney@ucalgary.ca)), or a committee representative of your choice at <https://science.ucalgary.ca/biological-sciences/about/equity-diversity-and-inclusion>

2. **Requisites:**

See section [3.5.C](#) in the Faculty of Science section of the online Calendar.

**Prerequisite(s):**

3 units from Cellular, Molecular and Microbial Biology 343, Zoology 375 or 401. Also known as: (formerly Zoology 483)

3. **Grading:**

The University policy on grading and related matters is described in [F.1](#) and [F.2](#) of the online University Calendar.

In determining the overall grade in the course the following weights will be used:

Course Component	Weight	Due Date (duration for exams)	Modality for exams	Location for exams
Quiz: Introduction and Syllabus <sup>1</sup>	1%	Jan 14 2022		
Ethics - Academic Misconduct Quiz <sup>2</sup>	1%	Jan 14 2022		
Theme 2 Quiz <sup>3</sup>	1%	Jan 19 2022		
Final Assignment Topic Outline <sup>4</sup>	2%	Jan 25 2022		
Platyhelminths I Worksheet <sup>5</sup>	2%	Feb 01 2022		
Theme 4 Quiz <sup>6</sup>	1%	Feb 04 2022		

Platyhelminths II Worksheet <sup>7</sup>	2%	Feb 08 2022		
Theme 5 Quiz <sup>8</sup>	1%	Feb 11 2022		
Theme 6 Quiz <sup>9</sup>	1%	Feb 14 2022		
Nematodes I Worksheet <sup>10</sup>	2%	Feb 15 2022		
Nematodes II Worksheet <sup>11</sup>	2%	Mar 01 2022		
Protozoa I Worksheet <sup>12</sup>	2%	Mar 08 2022		
Midterm <sup>13</sup>	15%	Mar 09 2022 at 12:00 pm (50 Minutes)	in-person	T1118
Theme 8 Quiz <sup>14</sup>	1%	Mar 14 2022		
Protozoa II Worksheet <sup>15</sup>	2%	Mar 15 2022		
Theme 9 Quiz <sup>16</sup>	1%	Mar 21 2022		
Arthropods Worksheet <sup>17</sup>	2%	Mar 22 2022		
Theme 10 Quiz <sup>18</sup>	1%	Mar 28 2022		
The importance of parasites Worksheet <sup>19</sup>	2%	Mar 29 2022		
Theme 11 Quiz <sup>20</sup>	1%	Apr 04 2022		
Parasitic Infection Treatment Options Worksheet <sup>21</sup>	2%	Apr 05 2022		
Final Lab Assignment <sup>22</sup>	20%	Apr 12 2022		
Registrar Scheduled Final Exam	35%	Will be available when the final exam schedule is released by the Registrar	in person	Will be available when the final exam schedule is released by the Registrar

<sup>1</sup> Asynchronous, available on D2L

<sup>2</sup> Asynchronous, available on D2L

<sup>3</sup> Asynchronous, available on D2L

<sup>4</sup> Asynchronous, available on D2L

<sup>5</sup> This timed assessment will be available on D2L during your online lab session. You will have the duration of the lab to complete and submit it.

<sup>6</sup> Asynchronous, available on D2L

<sup>7</sup> This timed assessment will be available on D2L during your online lab session. You will have the duration of the lab to complete and submit it.

<sup>8</sup> Asynchronous, available on D2L

<sup>9</sup> Asynchronous, available on D2L

<sup>10</sup> This timed assessment will be available on D2L during your online lab session. You will have the duration of the lab to complete and submit it.

<sup>11</sup> This timed assessment will be available on D2L during your online lab and/or as a paper worksheet during your in person lab session (depending on pandemic restrictions). You will have the duration of the lab to complete and submit it.

<sup>12</sup> This timed assessment will be available on D2L during your online lab and/or as a paper worksheet during your in person lab session (depending on pandemic restrictions). You will have the duration of the lab to complete and submit it.

<sup>13</sup> If pandemic restrictions are maintained, the midterm will be moved online. This timed assessment will be available on the 9th March at 11am until the 11th March at 12pm on D2L (This time frame includes two scheduled 50 mins lecture slots over which you can complete the assignment). The assessment is designed to take you 50 minutes of writing time with 25 mins of buffer time. It must be completed and submitted by the 11th March at 12pm.

<sup>14</sup> Asynchronous, available on D2L

<sup>15</sup> This timed assessment will be available on D2L during your online lab and/or as a paper worksheet during your in person lab session (depending on pandemic restrictions). You will have the duration of the lab to complete and submit it.

<sup>16</sup> Asynchronous, available on D2L

<sup>17</sup> This timed assessment will be available on D2L during your online lab and/or as a paper worksheet during your in person lab session (depending on pandemic restrictions). You will have the duration of the lab to complete and submit it.

<sup>18</sup> Asynchronous, available on D2L

<sup>19</sup> This timed assessment will be available on D2L during your online lab and/or as a paper worksheet during your in person lab session (depending on pandemic restrictions). You will have the duration of the lab to complete and submit it.

<sup>20</sup> Asynchronous, available on D2L

<sup>21</sup> This timed assessment will be available on D2L during your online lab and/or as a paper worksheet during your in person lab session (depending on pandemic restrictions). You will have the duration of the lab to complete and submit it.

<sup>22</sup> Asynchronous, available on D2L

Each piece of work (reports, assignments, quizzes, midterm exam(s) or final examination) submitted by the student will be assigned a grade. The student's grade for each component listed above will be combined with the indicated weights to produce an overall percentage for the course, which will be used to determine the course letter grade.

The conversion between a percentage grade and letter grade is as follows.

	<b>A+</b>	<b>A</b>	<b>A-</b>	<b>B+</b>	<b>B</b>	<b>B-</b>	<b>C+</b>	<b>C</b>	<b>C-</b>	<b>D+</b>	<b>D</b>
<b>Minimum % Required</b>	92 %	88 %	84 %	80%	76%	72 %	68 %	64%	60%	56 %	50 %

This course will have a Registrar Scheduled Final exam that will be delivered on-line. [The Final Examination Schedule](#) will be published by the Registrar's Office approximately one month after the start of the term. The final exam for this course will be designed to be completed within hours.

The student cannot pass the course as a whole unless they have passed (>50%) at least one component of the lab-based examinations (quizzes or exam) and one component of the lecture-based examinations (midterm or final exam).

If you experience an issue that affects your ability to complete the online assessments, which can include (but is not limited to) issues with technology, time zone issues, caregiving responsibilities, or distractions within your test-taking environment, you will need to contact your instructor as soon as possible.

The University of Calgary offers a [flexible grade option](#), Credit Granted (CG) to support student's breadth of learning and student wellness. Faculty units may have additional requirements or restrictions for the use of the CG grade at the faculty, degree or program level. To see the full list of Faculty of Science courses where CG is not eligible, please visit the following website: <https://science.ucalgary.ca/current-students/undergraduate/program-advising/flexible-grading-option-cg-grade>

#### 4. **Missed Components Of Term Work:**

The university has suspended the requirement for students to provide evidence for absences. Please do not attend medical clinics for medical notes or Commissioners for Oaths for statutory declarations.

In the event that a student legitimately fails to submit any online assessment on time (e.g. due to illness etc...), please contact the course coordinator, or the course instructor if this course does not have a coordinator to arrange for a re-adjustment of a submission date. Absences not reported within 48 hours will not be accommodated. If an excused absence is approved, one possible arrangement is that the percentage weight of the legitimately missed assignment could also be pro-rated among the components of the course. This option is at the discretion of the coordinator and may not be a viable option based on the design of this course.

#### 5. **Scheduled Out-of-Class Activities:**

There are no scheduled out of class activities for this course.

#### 6. **Course Materials:**

In order to successfully engage in their learning experiences at the University of Calgary, students taking online, remote and blended courses are required to have reliable access to the following technology:

- A computer with a supported operating system, as well as the latest security, and malware updates;
- A current and updated web browser;
- Webcam/Camera (built-in or external);
- Microphone and speaker (built-in or external), or headset with microphone;
- Current antivirus and/or firewall software enabled;
- Stable internet connection.

For more information please refer to the UofC [ELearning](#) online website.

## 7. Examination Policy:

No aids are allowed on tests or examinations.

Students should also read the Calendar, [Section G](#), on Examinations.

## 8. Approved Mandatory And Optional Course Supplemental Fees:

There are no mandatory or optional course supplemental fees for this course.

## 9. Writing Across The Curriculum Statement:

For all components of the course, in any written work, the quality of the student's writing (language, spelling, grammar, presentation etc.) can be a factor in the evaluation of the work. See also Section [E.2](#) of the University Calendar.

## 10. Human & Living Organism Studies Statements:

Students will not participate as subjects or researchers in human studies.

See also [Section E.5](#) of the University Calendar.

**STUDIES IN THE BIOLOGICAL SCIENCES INVOLVE THE USE OF LIVING AND DEAD ORGANISMS.** Students taking laboratory and field-based courses in these disciplines can expect involvement with and experimentation on such materials. Students perform dissections on dead or preserved organisms in some courses. In particular courses, students experiment on living organisms, their tissues, cells, or molecules. Sometimes field work requires students to collect a variety of living materials by many methods, including humane trapping.

All work on humans and other animals conforms to the Helsinki Declaration and to the regulations of the Canadian Council on Animal Care. The Department strives for the highest ethical standards consistent with stewardship of the environment for organisms whose use is not governed by statutory authority. Individuals contemplating taking courses or majoring in one of the fields of study offered by the Department of Biological Sciences should ensure that they have fully considered these issues before enrolling. Students are advised to discuss any concern they might have with the Undergraduate Program Director of the Department.

Students are expected to be familiar with [Section SC.4.1](#) of the University Calendar.

## 11. Reappraisal Of Grades:

A student wishing a reappraisal, should first attempt to review the graded work with the Course coordinator/instructor or department offering the course. Students with sufficient academic grounds may request a reappraisal. Non-academic grounds are not relevant for grade reappraisals. Students should be aware that the grade being reappraised may be raised, lowered or remain the same. See [Section I.3](#) of the University Calendar.

- a. **Term Work:** The student should present their rationale as effectively and as fully as possible to the Course coordinator/instructor within **ten business days** of either being notified about the mark, or of the item's return to the class. If the student is not satisfied with the outcome, the student shall submit the Reappraisal of Graded Term work form to the department in which the course is offered within 2 business days of receiving the decision from the instructor. The Department will arrange for a reappraisal of the work within the next ten business days. The reappraisal will only be considered if the student provides a detailed rationale that outlines where and for what reason an error is suspected. See sections [I.1](#) and [I.2](#) of the University Calendar
- b. **Final Exam:** The student shall submit the request to Enrolment Services. See [Section I.3](#) of the University Calendar.

## 12. Other Important Information For Students:

- a. **Mental Health** The University of Calgary recognizes the pivotal role that student mental health plays in physical health, social connectedness and academic success, and aspires to create a caring and supportive campus community where individuals can freely talk about mental health and receive supports when needed. We encourage you to explore the mental health resources available throughout the university community, such as counselling, self-help resources, peer support or skills-building available through the SU Wellness Centre (Room 370, MacEwan Student Centre, [Mental Health Services Website](#)) and the Campus Mental Health Strategy website ([Mental Health](#)).
- b. **SU Wellness Services:** For more information, see [www.ucalgary.ca/wellnesscentre](http://www.ucalgary.ca/wellnesscentre) or call [403-210-9355](tel:403-210-9355).
- c. **Sexual Violence:** The Sexual Violence Support Advocate, Carla Bertsch, can provide confidential support

and information regarding sexual violence to all members of the university community. Carla can be reached by email ([svsa@ucalgary.ca](mailto:svsa@ucalgary.ca)) or phone at 403-220-2208. The complete University of Calgary policy on sexual violence can be viewed at (<https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Sexual-and-Gender-Based-Violence-Policy.pdf>)

- d. **Misconduct:** Academic integrity is the foundation of the development and acquisition of knowledge and is based on values of honesty, trust, responsibility, and respect. We expect members of our community to act with integrity. Research integrity, ethics, and principles of conduct are key to academic integrity. Members of our campus community are required to abide by our institutional [Code of Conduct](#) and promote academic integrity in upholding the University of Calgary's reputation of excellence. Some examples of academic misconduct include but are not limited to: posting course material to online platforms or file sharing without the course instructor's consent; submitting or presenting work as if it were the student's own work; submitting or presenting work in one course which has also been submitted in another course without the instructor's permission; borrowing experimental values from others without the instructor's approval; falsification/fabrication of experimental values in a report. Please read the following to inform yourself more on academic integrity:

[Student Handbook on Academic Integrity](#)  
Student Academic Misconduct [Policy](#) and [Procedure](#)  
[Research Integrity Policy](#)

Additional information is available on the [Student Success Centre Academic Integrity page](#)

- e. **Academic Accommodation Policy:**

It is the student's responsibility to request academic accommodations according to the University policies and procedures listed below. The student accommodation policy can be found at: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Student-Accommodation-Policy.pdf>

Students needing an accommodation because of a disability or medical condition should communicate this need to Student Accessibility Services in accordance with the Procedure for Accommodations for Students with Disabilities: <https://www.ucalgary.ca/legal-services/sites/default/files/teams/1/Policies-Accommodation-for-Students-with-Disabilities-Procedure.pdf>.

Students needing an accommodation in relation to their coursework or to fulfil requirements for a graduate degree, based on a Protected Ground other than Disability, should communicate this need, by filling out the [Request for Academic Accommodation Form](#) and sending it to Lisa Gieg by email [imgieg@ucalgary.ca](mailto:imgieg@ucalgary.ca) preferably 10 business days before the due date of an assessment or scheduled absence.

- f. **Freedom of Information and Privacy:** This course is conducted in accordance with the Freedom of Information and Protection of Privacy Act (FOIP). Students should identify themselves on all written work by placing their name on the front page and their ID number on each subsequent page. For more information, see [Legal Services](#) website.
- g. **Student Union Information:** [VP Academic](#), Phone: [403-220-3911](tel:403-220-3911) Email: [suvpaca@ucalgary.ca](mailto:suvpaca@ucalgary.ca). SU Faculty Rep., Phone: [403-220-3913](tel:403-220-3913) Email: [sciencerep@su.ucalgary.ca](mailto:sciencerep@su.ucalgary.ca). [Student Ombudsman](#), Email: [ombuds@ucalgary.ca](mailto:ombuds@ucalgary.ca).
- h. **Surveys:** At the University of Calgary, feedback through the Universal Student Ratings of Instruction ([USRI](#)) survey and the Faculty of Science Teaching Feedback form provides valuable information to help with evaluating instruction, enhancing learning and teaching, and selecting courses. Your responses make a difference - please participate in these surveys.
- i. **Copyright of Course Materials:** All course materials (including those posted on the course D2L site, a course website, or used in any teaching activity such as (but not limited to) examinations, quizzes, assignments, laboratory manuals, lecture slides or lecture materials and other course notes) are protected by law. These materials are for the sole use of students registered in this course and must not be redistributed. Sharing these materials with anyone else would be a breach of the terms and conditions governing student access to D2L, as well as a violation of the copyright in these materials, and may be pursued as a case of student academic or [non-academic misconduct](#), in addition to any other remedies available at law.

Electronically Approved - Jan 21 2022 09:41

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**Department Approval**

Electronically Approved - Jan 22 2022 21:23

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**Associate Dean's Approval**