

Course ID:	Course Title:	Spring 2021
ZOO 399	Human Parasitology	Prerequisite: ZOO 261 or ZOO 263 or permission of the Department of Biology
		Credits: 3

Spring two-week MODULE (half days)

Class Information		Instructor Information		Important Dates	
Days:	Tues May 25 - Friday June 4 2021	Instructor:	Dr. Harry E. Peery, AAS, BS, MS, ABD, PhD, RN (Arizona, New York)	First day of classes:	Tuesday, May 25, 2021
Time:	9-12:30	Email:	harry.peery@ambrose.edu	Last day to add/drop, or change to audit:	End of May 21, 2021
Room:	A2131	Phone:	By e-mail at harry.peery@ambrose.edu	Last day to request revised exam:	n/a
Lab/ Tutorial:	none	Office:	By e-mail at harry.peery@ambrose.edu	Last day to withdraw from course:	End of the 2 nd day of the 2 nd week
	none	Office Hours:	e-mail any time.	Last day to apply for coursework extension:	One month before final due date
Final Exam:	Final Exam not cumulative. Friday-Sunday June 4-6, 2021. Online			Last day of classes:	June 4, 2021

Course Description

This course covers topics such as the definition of parasitism, immune response to parasites, survey of common parasites organized on the basis of taxonomical hierarchy. Students will enhance these topics and include the most up-to-date research in these areas. Presentations will be part of the course work.

This course will rely on lecture material in conjunction with research papers and a PowerPoint presentation which will be **submitted by email by June 30.**

Expected Learning Outcomes

An understanding of the most common parasites that affect humans and the immune response to those parasites.

Textbooks

Human Parasitology, 5th ed., by Burton J. Bogitsh, Clint E. Carter and Thomas N. Oeltmann. Academic Press, 2019. ISBN 978-0-12-8137-12-3

Course Schedule

Date and Time	Lecture # and subject	Textbook Reference	Other Reference
	PART I Parasitism and the environment		
Tuesday, May 25, 2021 9-10 AM	1. Introduction to Course	None	
Tuesday, May 25, 2021 10:10 – 11:10 AM	2. Symbiosis and parasitism	Chapter 1	
Tuesday, May 25, 2021 11:20 AM – 12:20 PM	3. Basics of epidemiology	None	
Wednesday, May 26, 2021 9-10 AM	4. Effects of Parasites on Host a. Immune response: The innate immune system	Chapter 2	
Wednesday, May 26, 2021 10:10 to 11:10 AM	4. b. The adaptive immune response.	Chapter 2	
Wednesday, May 26, 2021 11:20 AM to 12: 20 PM	c. Some opportunistic parasites.	Chapter 2	
	Part II Unicellular Parasites		
Thursday, May 27, 2021 9-10 AM	Lecture 5. Visceral Protozoa (Protista)	Chapter 4	
Thursday, May 27, 2021 10:10-11:10 AM	Lecture 5 (Continued)	Chapter 4	
Thursday, May 27, 2021 11:20 AM-12:20 PM	Lecture 6. Visceral Protozoa: The Flagellates	Chapter 5	
Friday, May 28, 2021 9-10 AM	Lecture 6. (Continued)	Chapter 5	
Friday, May 28, 2021 10:10 to 11:10 AM	Lecture 7. Blood and Tissue Protozoa I: hemoflagellates	Chapter 6	
Friday, May 28, 2021 11:20 AM to 12:20 PM	Lecture 7. (Continued)	Chapter 6	
Saturday, May 29, 2021 9-10 AM	Review for Exam		
Saturday, May 29, 2021 10:10-11:10 AM	Review for Exam		
Saturday, May 29, 2021	Free Period		

11:20 AM-12:20 PM			
Saturday May 29-Sunday May 30, 2021 Exam #1 Covers lectures 1-7	Online 1 PM Saturday to 11 PM Sunday		
Monday, May 31, 2021 9-10 AM	Lecture 8: Malaria	Chapter 8	
Monday, May 31, 2021 10:10 to 11:10 AM	Lecture 8: (Continued)	Chapter 8	
Monday, May 31, 2021 11:20 AM-12:20 PM	Lecture 9: Visceral Flukes	Chapter 10	
Tuesday, June 1, 2021 9-10 AM	Lecture 10: Blood Flukes	Chapter 11	
	Part III: Multicellular Parasites		
Tuesday, June 1, 2021 10:10 – 11:10 AM	Lecture 11. Intestinal tapeworms	Chapter 13	
Tuesday, June 1, 2021 11:20 AM – 12:20 PM	Lecture 12: Extraintestinal tapeworms	Chapter 14	
Wednesday, June 2, 2021 9-10 AM	Lecture 12: (Continued)	Chapter 14	
Wednesday, June 2, 2021 10:10 to 11:10 AM	Lecture 13: Intestinal Nematodes	Chapter 16.	
Wednesday, June 2, 2021 11:20 AM to 12:20 PM	Lecture 13: (Continued)	Chapter 16	
Thursday, June 3, 2021 9-10 AM	Lecture 14: Blood and Tissue Nematodes	Chapter 17	
Thursday, June 3, 2021 10:10 to 11:10 AM	Lecture 14: (Continued)	Chapter 17	
	Part IV: Arthropods		
Thursday, June 3, 2021 11:20 AM to 12:20 PM	Lecture 15: Arthropod vectors	Chapter 18	
Friday, June 4, 2021 9-10 AM	Lecture 15: Arthropod vectors and arthropods as parasites	Chapter 18/None	
Friday, June 4, 2021 10:10 to 11:10 AM	Review for Exam #2		
Friday, June 4, 2021 11:20 AM to 12:20 PM	Review for Exam #2		
Friday June 4, 2021 to Sunday June 6, 2021 Exam #2 Covers lectures 8-15	Online 1 PM Friday to 11 PM Sunday		
PowerPoint Presentation	Online		June 30, 2021

Requirements:

2 Exams (50 questions over 70 minutes) online via Moodle open book	2 @30 points =60%
Participation and attendance	1@10 points = 10%
PowerPoint Presentation due June 30, 2021	1@25 points = 30%
	100 points = 100%

Exams are open book and questions are taken from the objectives for each lecture. The exams are multiple choice (choices a-d) and will be available on Moodle. Students will answer on Moodle. There are 50 questions to be taken within 70 minutes.

First exam is available Saturday May 29 at 1 PM and you have until Sunday May 30 at 11 PM to take it.

Second exam is available Friday, June 4 at 1 PM and you have until Sunday, June 6 at 11 PM to take it.

There are no retakes of these exams. In the allotted time period, you can go back and change your answer(s). After the time period has passed for the exam, you cannot go back and change your answer(s).

Attendance:

Attendance is expected and will be taken each day

PowerPoint Presentations – Due June 30, 2021.

One PowerPoint Presentation per student on a parasite subject of their own choosing.

Specifications: No more than 30 PowerPoints slides in a presentation.

Font: 18 point except for headings – do not use script type.

No more than 8 lines of text per slide

Lots of illustrations

References: At least 3 references (can be from the web)

Keep same 18-point type

Can use more than one slide for references.

Format: Sections of the Presentation

Title – **include your name and date here**

Introduction

Subject

Evidence

Conclusions

References

- **PowerPoint Suggestions**

- Do not load each slide with lots of print.
- Use images wherever possible
- Present your approach to a problem that you would eventually like to work on.
- Always state your hypothesis at the beginning
- You should limit the slides to 40 or less
- You will not do any presentation live.
- Post them to Moodle

Grade Summary:

The available letters for grades are as follows:

Grade	Percent	Grade Point Value	Description
A+	96-100	4.00	Outstanding
A	92-96	4.00	Excellent - superior performance, showing comprehensive understanding of subject matter.
A-	88-92	3.70	
B+	83-88	3.30	
B	78-83	3.00	Good-clearly above average performance with knowledge of subject matter generally complete.
B-	73-78	2.70	
C+	68-73	2.30	
C	64-68	2.00	Satisfactory – basic understanding of the subject matter. Grade point average below 2.00 is not sufficient for promotion.
C-	60-64	1.70	Minimum grade required if needed as a prerequisite course
D+	55-60	1.30	
D	51-55	1.00	Minimal pass – marginal performance; generally insufficient preparation for subsequent courses in the same subject.
F	<50	0	Fail – unsatisfactory performance or failure to meet course requirements.

Please note that final grades will be available on student registration system. Printed grade sheets are not mailed out.

Because of the nature of the Alpha 4.00 system, there can be no uniform University-wide conversion scale. The relationship between raw scores (e.g. percentages) and the resultant letter grade will depend on the nature of the course and the instructor’s assessment of the level of each class, compared to similar classes taught previously.

Please note that final grades will be available on student registration system. Printed grade sheets are not mailed out.

Other:

Classroom Etiquette:

It is expected that students will take an active role in the learning process. This includes: (a) regular class attendance, (b) reading course material in advance of class, and (c) engaging in discussions during class.

In respect to the professor and to your fellow students, we ask that you:

- a) Turn your phone off during class and that you don't use it for texting during lecture
- b) Do not have conversations with the people beside your during lecture – it is very distracting to the people around you
- c) Use your laptops for lecture material and assignments only – that you are not using the internet or Facebook during class time.
- d) Arrive to lecture **on time**

Ambrose University Academic Policies:

Communication

All students have received an Ambrose e-mail account upon registration. It is the student's responsibility to check this account regularly as the Ambrose email system will be the professor's instrument for notifying students of important matters (cancelled class sessions, extensions, requested appointments, etc.) between class sessions. If students do not wish to use their Ambrose accounts, they will need to forward all messages from the Ambrose account to another personal account.

Registration

During the **Registration Revision Period** students may enter a course without permission, change the designation of any class from credit to audit and /or voluntary withdraw from a course without financial or academic penalty or record. Courses should be added or dropped on the student portal by the deadline date; please consult the List of Important Dates. After that date, the original status remains and the student is responsible for related fees.

Students intending to withdraw from a course after the Registration Revision Period must apply to the Office of the Registrar by submitting a "Request to Withdraw from a Course" form or by sending an email to the Registrar's Office by the **Withdrawal Deadline**; please consult the List of Important Dates on the my.ambrose.edu website. Students will not receive a tuition refund for courses from which they withdraw after the Registration Revision period. A grade of "W" will appear on their transcript.

Students wishing to withdraw from a course, but who fail to do so by the applicable date, will receive the grade earned in accordance with the course syllabus. A student obliged to withdraw from a course after the Withdrawal Deadline because of health or other reasons may apply to the Registrar for special consideration.

Exam Scheduling

Students, who find a conflict in their exam schedule must submit a Revised Examination Request form to the Registrar's Office by the deadline date; please consult the List of Important Dates. Requests will be considered for the following reasons only: 1) the scheduled final examination slot conflicts with another exam; 2) the student has three final exams within three consecutive exam time blocks; 3) the scheduled final exam slot conflicts with an exam at another

institution; 4) extenuating circumstances. Travel is not considered a valid excuse for re-scheduling or missing a final exam.

Electronic Etiquette

Students are expected to treat their instructor, guest speakers, and fellow students with respect. It is disruptive to the learning goals of a course or seminar and disrespectful to fellow students and the instructor to use electronics for purposes unrelated to the course during a class session. Turn off all cell phones and other electronic devices during class. Laptops should be used for class-related purposes only. Do not use iPods, MP3 players, or headphones. Do not text, read, or send personal emails, go on Facebook or other social networks, search the internet, or play computer games during class. Some professors will not allow the use of any electronic devices in class. The professor has the right to disallow the student to use a laptop in future lectures and/or to ask a student to withdraw from the session if s/he does not comply with this policy. Repeat offenders will be directed to the Dean. If you are expecting communication due to an emergency, please speak with the professor before the class begins.

Academic Policies

It is the responsibility of all students to become familiar with and adhere to academic policies as stated in the Academic Calendar. Personal information (information about an individual that may be used to identify that individual) may be required as part of taking this class. Any information collected will only be used and disclosed for the purpose for which the collection was intended. For further information contact the Privacy Compliance Officer at privacy@ambrose.edu.

Extensions

Although extensions to coursework in the semester are at the discretion of the instructor, students may not turn in coursework for evaluation after the last day of the scheduled final examination period unless they have received permission for a course Extension from the Registrar's Office. Requests for course extensions or alternative examination time must be submitted to the Registrar's Office by the deadline date; please consult the List of Important Dates. Course extensions are only granted for serious issues that arise "due to circumstances beyond the student's control."

Note: Students are strongly advised to retain this syllabus for their records.

Appeal of Grade

An appeal for change of grade on any course work must be made to the course instructor within one week of receiving notification of the grade. An appeal for change of final grade must be submitted to the Registrar's Office in writing and providing the basis for appeal within 30 days of receiving notification of the final grade, providing the basis for appeal. A review fee of \$50.00 must accompany the appeal. If the appeal is sustained, the fee will be refunded.

Academic Integrity

We are committed to fostering personal integrity and will not overlook breaches of integrity such as plagiarism and cheating. Academic dishonesty is taken seriously at Ambrose University as it undermines our academic standards and affects the integrity of each member of our learning community. Any attempt to obtain credit for academic work through fraudulent, deceptive, or dishonest means is academic dishonesty. Plagiarism involves presenting someone else's ideas, words, or work as one's own. Plagiarism is fraud and theft, but plagiarism can also occur by accident when a student fails or forgets to acknowledge to another person's ideas or words. Plagiarism and cheating can result in a failing grade for an assignment, for the course, or immediate dismissal from the university. Students are expected to be familiar with the policies in the current Academic Calendar that deal with plagiarism, cheating, and the penalties and procedures for dealing with these matters. All cases of academic dishonesty are reported to the Academic Dean and become part of the student's permanent record.

Mental Health Support

All of us need a support system. We encourage students to build mental health supports and to reach out when help is needed.

On Campus:

- Counselling Services: ambrose.edu/counselling
- Peer Supportive Listening: One-to-one support in Student Life office. Hours posted at ambrose.edu/wellness.
- For immediate crisis support, there are staff on campus who are trained in Suicide Intervention and Mental Health First Aid. See ambrose.edu/crisissupport for a list of staff members.

Off Campus:

- Distress Centre - 403-266-4357
- Sheldon Chumir Health Care Centre - 403-955-6200
- Emergency - 911

Sexual Violence Support

All staff, faculty, and Residence student leaders have received *Sexual Violence Response to Disclosure* training. We will support you and help you find the resources you need. There is a website with on and off campus supports – ambrose.edu/sexual-violence-response-and-awareness.

Off Campus:

- Clinic: Sheldon Chumir Health Centre - 403-955-6200
- Calgary Communities Against Sexual Abuse - 403-237-5888