

ZOO 4232 HUMAN PARASITOLOGY
FALL SEMESTER, 2024
Hybrid
In-person in FLG 0230 and Distance (canvas site)
MWF 8:30 – 9:20 am

INSTRUCTOR: Dr. PETER KIMA, Micro. Cell Science Building, Room 1005, 392-0384. Email: pkima@ufl.edu

Credits: 3

Textbook: **Human Parasitology. Burton J. Bogitsh and Thomas C. Cheng. Academic Press. San Diego CA., 4th Edition. ISBN. 978-0-12-415915-0.** Other recommended texts: Cell and Molecular Biology by Gerald Karp. John Wiley & Sons, Inc.; Immunobiology, The Immune System in Health and Disease. Charles Janeway and Paul Travers. Garland Publishing Inc, New York NY.

Students are required to have access to a computer. All class materials will be displayed in the course website on canvas. Exams and quizzes will be accessed through the course website

- **Office hours – Tuesdays 3 - 5pm**

Peter Kima is inviting you to a scheduled Zoom meeting.

Topic: ZOO4232 office hours

<https://ufl.zoom.us/meeting/register/tJ0odO6gqT0uHNxNHNJ80bl4OexzulgBSfak>

Meeting ID - 995 3787 6468

Passcode - 954600

Course Website The course website on canvas contains pertinent information on the course. The website is subdivided into 3 pages:

Lectures: Most lectures will be delivered in in-person class sessions. The lectures will be recorded and made accessible to all

students. Some lectures will be pre-recorded. Here is the zoom link to access lectures synchronously.

You are invited to a Zoom meeting.

<https://ufl.zoom.us/j/91885231195>

Meeting ID - 918 8523 1195

Passcode - 966608

All recorded lectures will be placed in a library of recorded lectures with links in the Lectures module. Powerpoint presentations for each lecture (saved as pdf) will be posted in the 'Lectures' module. **Exam questions will be extracted from material in lectures.**

Lecture-associated readings: The Lecture-associated module will contain insightful case reports of infections as well as short discussions of useful topics. The material in the Lecture-associated module is intended to reinforce the course objectives and to enhance your overall understanding of parasitism and host-pathogen interactions.

Assigned readings. Assigned readings module will contain recent review articles or primary source articles. You will be assigned case reports, primary papers and review articles to compliment the concepts discussed in lecture. You will be expected to gain a detailed understanding of the assigned readings. The assigned readings will have some annotations to help enhance your understanding of the articles. Teaching Assistant(s) will be available to discuss the readings with you. **A quiz with at least 10 questions will be extracted from the assigned readings. You will have up to 10 days to complete the assigned readings and quiz.**

Scope: This course will present information concerning parasite life cycles, **biology of host-parasite relationships**, vectors of parasites, epidemiology, methods of diagnosis, prevention and control of parasitic infections of public health importance.

Objectives: The student is expected to

- obtain a detailed understanding of the life cycle patterns of major parasites of importance to humans.

- Appreciate the cell biological aspects of the biology of these parasites and host/parasite interactions.
- Obtain some understanding of the host immune response to these infections as presented in lecture, the assigned textbook and suggested reviews.
- Learn the epidemiology of the diseases associated with these parasites.
- Become familiar with Vectors of parasites; vector-parasite relationships.
- Understand strategies to control or limit their effects on humans.
- Gain a basic appreciation of significant unresolved questions relating to some of these parasites and their relationships with humans.

Class Attendance: Class attendance is discretionary. Gainesville students are encouraged to attend in person lectures. However, all material will be recorded and made available to everyone.

Exams and quizzes: There will be 4 proctored class exams.

Gainesville students are encouraged to take the exam in person at the scheduled class time. Alternatively, students can take the exam proctored through ProctorU. The exams will be proctored by ProctorU. Each student will **schedule a time to take the exam on the exam dates in the syllabus**. Each exam will be available for 2 days. Each student is expected to have sufficient **battery life** to last for the entire 50 min exam. **Please note the exam make-up policy below.**

Quizzes:

There will be 2 types of quizzes.

Type 1 quizzes will be extracted from lectures. Following lecture blocks, quizzes extracted from those lectures will be made available. You will have 7 to 10 days to complete each quiz. Students are expected to work independently.

Type 2 quizzes will be extracted from the assigned readings. Availability of the assigned readings will be communicated by email to all students. Type 2 quizzes will be 'open book'. You will have 2 tries for each quiz. Only your higher score will be recorded. Although the quizzes are 'open book', students are expected to take them independently.

Grading: Students in this class will be graded based on Exams and Quizzes.

There will be 4 exams each worth 15% of the final Grade (Exams will be worth 60% of your grade). Quizzes will add up to 40% of your grade (Type 1 quizzes will be worth 20%; Type 2 quizzes will be worth 20%) of your final grade.

No exam make-ups: Exams are available over a 2-day period and can be taken from any where that has accessible WIFI. Make notice of exam dates in the syllabus and make appropriate arrangements!

You have 7 or 10 days to complete each quiz. Please make every effort to complete your quizzes and exams at scheduled times.

Letter grades including minus grades will be determined solely from scores on exams and quizzes. The point cut offs for letter grade assignment will be posted after the second exam.

ZOO 4232 Human Parasitology Lecture Schedule
Fall Semester, 2024

Date	Topic	Instructor
August 23 (Fri)	Introduction to Course	P. Kima
26 (Mon)	Primer/Review- The Eukaryotic Cell	P. Kima
28 (Wed)	The Host Immune Response Primer	P. Kima
30 (Fri)	Primer	P. Kima
September 2 (Mon)	No Class - Labor day	
4 (Wed)	Protozoa: General Features/Visceral Protozoa	P. Kima
6 (Fri)	Visceral Protozoa (Amoeba and Ciliates)	P. Kima
09 (Mon)	Visceral Protozoa (Amoeba and Ciliates)	P. Kima
11 (Wed)	Visceral Protozoa (Flagellates)	P. Kima
13 (Fri)	Visceral Protozoa (Flagellates)	P. Kima
16 (Mon)	Visceral Protozoa (Flagellates)	P. Kima
18 (Wed)	Visceral Protozoa (Flagellates)	P. Kima
19-20 (Thu/Fri)	Exam 1 (Eukaryotic cell/Immune Response/Visceral Protozoa)	
23 (Mon)	Blood and Tissue Protozoa (Hemoflagellates)	P. Kima
25 (Wed)	Blood and Tissue Protozoa (Hemoflagellates)	P. Kima
27 (Fri)	Blood and Tissue Protozoa (Hemoflagellates)	P. Kima
30 (Mon)	Blood and Tissue Protozoa (Apicomplexa)	P. Kima
October 2 (Wed)	Blood and Tissue Protozoa (Apicomplexa)	P. Kima
4 (Fri)	Blood and Tissue Protozoa (Apicomplexa)	P. Kima

7 (Mon)	Blood and Tissue Protozoa	P. Kima
09 (Wed)	Trematodes: General Features	P. Kima
11 (Fri)	Visceral flukes	P. Kima
14/15 (Mon/Tues)	Exam II (Vectors / Hemoflagellates / Apicomplexa)	
16 (Wed)	Visceral Flukes	P. Kima
18 (/Fri)	UF Homecoming – no class	
21 (Mon)	Visceral flukes	P. Kima
23 (Wed)	Blood Flukes	P. Kima
25 (Fri)	Blood Flukes	P. Kima
28 (Mon)	Cestodes: General Characteristics	P. Kima
30 (Wed)	Intestinal Tapeworms	P. Kima
November 1 (Fri)	Intestinal Tapeworms	P. Kima
04 (Mon)	Extraintestinal Worms	P. Kima
06 (Wed)	Extraintestinal Worms	P. Kima
08 (Fri)	Extraintestinal Larval worms	P. Kima
11 (Mon)	Veterans Day	
13/14 (Wed/Thurs)	Exam III (Lectures on Flukes/Cestodes)	P. Kima
15 (Fri)	Nematodes – General features	P. Kima
18 (Mon)	Intestinal Nematodes	P. Kima
20 (Wed)	Intestinal Nematodes	P. Kima
22 (Fri)	Intestinal Nematodes	P. Kima
25 (Mon)	Blood and Tissue Nematodes	P. Kima
27 (Wed)	Thanksgiving break	

	29 (Fri)	Thanksgiving break	
Dec	02 (Mon)	Blood and Tissue Nematodes	P. Kima
	04 (Wed)	Blood and Tissue Nematodes	P. Kima

Tuesday 12/12/2022 @ 10:00am -12:00pm (in class). Accessible via ProctorU all day, 12/14/2022.
(Final Exam [Exam 4] - Lectures on Nematodes)

IMPORTANT NOTES

Academic Honesty: As a result of completing the registration form at the University of Florida, every student has signed the following statements: ***I understand that the University of Florida expects its students to be honest in all academic work. I agree to adhere to this commitment to academic honesty and understand that my failure to comply with this commitment may result in disciplinary action up to and including expulsion from the University.***

University of Florida Counseling Services: On-campus resources are available for students having personal problems or lacking clear career and academic goals that interfere with their academic performance. These resources include:

- 1 University Counseling Center: 301 Peabody Hall, 392-1575, personal and career counseling.
- 2 Student Mental health: Student Health care Center, 392-1171
- 3 Sexual Assault Recovery Services (SARS): Students Health Care Center, 392-1161, sexual counseling.
4. Career Resource Center: Reitz Union, 392-1601, career development assistance and counseling.
5. Consult resources for students on your campus (Distance)