

CLS 427: CLINICAL PARASITOLOGY
Fall 2018

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Office hours: Tuesday/Thursday 10-11, or by appointment.

COURSE DESCRIPTION

Clinical Parasitology. 1 cr. This course will be taught as a hybrid course utilizing online instruction with in-person laboratories addressing the study and identification of human parasites of medical significance. Identify clinical signs, symptoms, treatment and epidemiology associated with human parasitic disease. Examine specimen collection and transportation. Explore laboratory methods used to detect and identify parasites.

PREREQUISITE Biology 333

CORE ABILITIES:

- Communicate Effectively ~verbally & in writing
- Think Critically
- Exercise Problem-Solving Skills
- Work Collaboratively in Diverse Teams
- Respect Cultural Diversity & Pluralism

LEARNING OUTCOMES

Following completion of CLS 427 Clinical Parasitology, students will:

1. Gain an appreciation of the importance of parasitic infection in human health and disease.
2. Define general terms used in parasitology.
3. Develop a working knowledge of laboratory techniques and procedures pertaining to specimen collection, concentration, staining and identification of parasites.
4. Use appropriate safety protocol when in the laboratory.
5. Detect and identify parasites of medical importance.
6. Utilize given case history and pertinent information to identify the causative parasite.
7. Complete projects successfully as a member of the class, as a member of a group, and as an individual.

COURSE GRADING

93 – 100	A	77 – 79	C+
90 – 92	A-	73 – 76	C
87 – 89	B+	70 – 72	C-
83 – 86	B	67 – 69	D+
80 – 82	B-	60 – 66	D
		Below 60	F

Plus or minus grades may be used at the discretion of the instructor.

QUIZZES/EXAMS

1. Lecture quizzes (D2L) (See schedule for due dates/times)
2. Post Lab Quizzes (See schedule for due dates/times)
2. One laboratory (practical) final exam
3. Comprehensive written final exam

SAFETY

Safety is imperative in the clinical laboratory. In our lab we will utilize universal precautions and wear the proper personal protective equipment (PPE). This information will be highlighted by the instructor in the beginning labs, and throughout the year. Students will be required to complete associated MTS safety training modules as assigned at the beginning of the course.

JOURNAL REVIEW

Evidence Based Practice/Medicine is an important component to being a competent clinical professional. Evidence based practice is useful for clinical laboratory scientists to use as a means to finding answers to clinical problems. It involves generating questions (often because of a clinical problem) and then finding answers to those problems in the literature using online databases such as pubmed, google scholar, etc and then taking those findings and implementing them into your practice.

Part of the laboratory requirement thus includes weekly journal reviews. Each week 2-3 students will come ready to discuss a recent (within the last 3 years) literature article that pertains to an organism covered in the current week's lab. A sign-up sheet will be provided during the first laboratory period. Students simply need to provide an overview of the article to the class. Students are to post citation information or the URL of the article to the appropriate discussion board so all students can have access to the information.

DERIVATION OF COURSE GRADE

Laboratory (Post Lab quizzes, journal review, professionalism, etc.)	25%
D2L Lecture Quizzes	25%
Final exam (written comprehensive)	25%
Practical Laboratory Final Exam	25%

TEXTBOOK AND REFERENCES

1. **Required Text:**
Leventhal & Cheadle, *Medical Parasitology, A Self-Instructional Text*
6th ed.
2. **Reference Texts**
 - 1) Zeibig *Clinical Paristology A Practical Approach* 2nd Edition.
 - 2) Forbes, Sahm, Weissfeld, Bailey & Scott's *Diagnostic Microbiology*
12th ed.
3. Bailey and Scotts *Diagnostic Microbiology* 14th edition.
4. **Web Resources**
 - 1) <http://www.dpd.cdc.gov/DPDx/>
 - 2) <http://www.rph.wa.gov.au/labs/haem/malaria/>
 - 3) <http://www.medtraining.org>
Laboratory safety
Parasitology

ATTENDANCE:

1. **Attendance is mandatory in both lecture & lab.** However, if your schedule takes you away, please ask a peer for notes or to record the lecture for you. It is your responsibility to obtain missed lecture material. **There will be no make-up labs**, therefore it is expected that you will attend one of the two lab sessions for the week. Please notify the instructor prior to the planned absence so arrangements can be made for unknowns on the appropriate day.
2. **Absences will be excused only with appropriate proof** (i.e., note from a physician, funeral notice/card, etc.).

Missed/Late Work Policy

Any late work (assignments/quizzes/exams, etc.) will result in point deductions. Students will receive up to a maximum of 50% on the first day late. **Anything turned in after 1 day of the assignment due date will result in a zero.** It is the student's responsibility to complete all work on time. It is also the student's responsibility to turn in any late work within the one-day timeframe to receive up to 50% of the original grade (i.e. the instructor will not contact you for late work to be turned in).

Note: Having to work is not an acceptable reason for missing class and the absence will be deemed unexcused, and result in a zero for any missed school work.

UNIVERSITY POLICIES

Academic Integrity

The board of regents, administrators, faculty, academic staff and students of the University of Wisconsin system believe that academic honesty and integrity are fundamental to the mission of higher education and of the University of Wisconsin system. The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Students who violate these standards must be confronted and must accept the consequences of their actions. (Excerpt from UWSP 14.01 STATEMENT OF PRINCIPLES)

As a student in this class you are expected to maintain academic standards, ethics, and honesty, including UWSP, SHCP, and individual course standards.

Academic Accommodations

Support services are available for students with disabilities. Any student who has a disability and is in need of classroom and/or exam accommodations, please contact the instructor and the Office of Disability Services as soon as possible.

The instructor reserves the right to make changes to the syllabus and course content. Any in-class announcements (verbal or written) are considered official addendum to this syllabus. It is the student's responsibility to know what changes have been made. It is the student's responsibility to check D2L and emails for course announcements.