

15 SP GENERAL PARASITOLOGY LABORATORY (BIOL 4235) 1 hrs.

CRN #27309 section 01 W 2:00pm-4:50 pm Science 127

Instructor: Patt Allen, D.V.M. **Phone:** (435) 652-7776. **Email:** allen_p@dixie.edu

Office: Sci room 134. **Office hours:** T & TH 1:15-2:15 pm & 4-5:00 pm **or by appointment**

Description: Lab portion for BIOL 4230, emphasizing morphology and identification of representative groups of parasites and diagnostic techniques of parasitic disease.

See Assessments for Biology at: http://dixie.edu/biology/course_assessments.php

General Life Science Course Objectives: after successful completion of **General Parasitology Lecture**, the student will through testing, written or oral reports **fulfill the bolded outcomes:**

- Goal 1: Demonstrate breadth of discipline-specific knowledge
 - **Outcome 1: Students will describe and explain fundamental topics in five principal perspectives of biology:**
 - a) **The chemical and molecular machinations operating within all biological processes**
 - b) **The centrality of genetic systems' governance of life's actions from the cellular to the phyletic**
 - c) **The coordinated regulation of integrated cellular systems and their effect on the physiological functioning of organisms**
 - d) The dynamic interaction of living systems with each other and their environments
 - e) **The transforming role of evolution in changing life forms and how evolution explains both the unity and diversity of life**
- Goal 2: Demonstrate the capacity to think independently and critically
 - **Outcome 2: Students will employ scientific methods to acquire, analyze and apply knowledge of biological phenomena.**
 - Outcome 3: Students will evaluate scientific ideas and information while maintaining receptivity to potential alternative predications.
- Goal 3: Effectively convey scientific literacy through various mediums of communication
 - Outcome 4: Reading Comprehension: Students will analyze and critique scientific literature: identifying hypotheses, critiquing methods, interpreting data and results, and articulating the context of discussions.
 - Outcome 5: Written Communication: Students will produce well-written reports and/or research papers covering topics in biology. These papers will be presented in the accepted formats of scientific research articles.
 - Outcome 6: Oral Presentation: Students will publicly present scientific information covering specific topics in the biological sciences. Presentations will adequately communicate data and information in a clear and logical format.

Specific General Parasitology Laboratory Course Objectives: this course explores protistans and invertebrate animals that are of veterinary and medical important parasites. After successful completion of this course, the student will through testing, written or oral reports:

- explain the evolutionary associations between parasite and host
- identify the innate and acquired immune responses in vertebrate hosts
- diagram the taxonomic relationships between parasitic protistan groups
- distinguish among the diversity of protistans with respect to morphology and life cycle
- discuss the importance and magnitude of diseases caused by flatworms
- diagram the taxonomic relationships between plathyelminthic (flatworm) groups
- identify the physical characteristics and reproductive cycles of flatworms
- discuss the importance and magnitude of diseases caused by flatworms
- diagram the taxonomic relationships between nematode (roundworm) groups
- identify the physical characteristics and reproductive cycles of roundworms
- diagram the taxonomic relationships between arthropod groups
- identify the physical characteristics and reproductive cycles of various arthropods
- discuss the importance and magnitude of diseases caused by arthropods
- identify adaptations of arthropods, which contribute to their success as a group

Prerequisite: BIOL 3045 (Grade C or higher).

Corequisite: BIOL 4230. SP (Odd years).

PARASITOLOGY LAB WON'T MEET THE FIRST WEEK OF SCHOOL

Required Texts: Gerald D. Schmidt & Larry S. Robert's *Foundations of Parasitology* (9th Edition is used in PowerPoint presentations). **Students should bring text to each laboratory period.**

Optional reference: none

Library, Computer Lab, Writing Center, Testing Center, and Tutoring Center

- Library – there is no library component but link at: <http://library.dixie.edu>
- Computer Lab – there is no computer lab component
- Writing Center - there is no writing center component but link at : http://new.dixie.edu/english/dsc_writing_center.php

Tutoring: No peer tutors are available so come to the instructor for help.

Tutoring Center: Students work on assignments independently while having the opportunity to have assistance when needed. Located in room 431 Holland Centennial Commons (email:

Reasonable Accommodation: If you suspect or are aware that you have a disability that may affect your success in the course you are strongly encouraged to contact the **Disability Resource Center (DRC)** located at the North Plaza Building (phone (435) 652-7516). The disability will be evaluated and eligible students will receive assistance in obtaining reasonable accommodations. Students should contact the DRC **within the first two weeks of the beginning of classes** for eligibility determination. Proper documentation of impairment is required in order to receive services. Call to schedule an appointment for further information regarding the process to receive accommodations. The DRC Coordinator determines eligibility for and authorizes the provision of services. A link is at: <http://dixie.edu/drcenter/>

Dixie State University Policies and Statements can be linked from the website for the **Spring 2015** course schedule at: <http://dixie.edu/reg/?page=spring2015>

Academic dishonesty/academic integrity policy 34.1 Academic dishonesty in any form will not be tolerated at Dixie State University, including but not limited to plagiarism on written assignments, submitting other person's work as one's own, and cheating on exams or quizzes. Teachers at Dixie State University may discipline students proven guilty of academic dishonesty by:

- 34.1.1 Giving a **failing grade on the specific assignment** where dishonesty occurred,
- 34.1.2 **Failing the student in the entire course,**
- 34.1.3 Immediately dismissing and **removing the student from the course,** and/or
- 34.1.4 Referring the student to Student Affairs Committee which may **reprimand, place on probation, suspend, and/or expel the student.**

Disruptive Behavior policy 34.2: Teachers at Dixie State University have the right to manage the classroom environment to ensure a good learning climate. Toward this end, teachers (or University security) **may dismiss and remove disruptive students from individual class** activities. If a student's behavior continues to disrupt class activities, the teacher may dismiss and **cause the removal of disruptive students from their course.**

Disruptive Behavior (continued)

- **Text or instant messaging, gaming,** and any other extraneous use of electronic devices during lecture is annoying to the instructor, and equally damaging to you as a student. Peer reviewed investigations conclude that less information is absorbed and retained when these devices are in use. If your instructor observes you using a device, **10 points will be deducted from your course grade for every time.**
- **Cell phones must not be audible** during class. If it tings, beeps, rings, chirps, etc., **10 points will be deducted from your course grade for every time.**

Student Appeals policy 34.3: Students who believe themselves wrongfully disciplined may appeal those disciplinary actions through the standard grievance procedure. (Policy 5-35)

Attendance and Make-Up Policy

- **Students should attend each class period**, however, if an absence occurs, email and/or phone your instructor as soon as possible.
- **If you feel ill, stay home** and email and/or phone instructor as soon as possible.
- **IF YOU PLAN ON MISSING SCHOOL DUE TO A VACATION, WEDDING, or FAMILY REUNION, etc... THERE WILL BE NO MAKE-UP ALLOWED FOR THESE ABSENCES!**

If a student fails to complete **an assignment** on the scheduled date(s), a “make-up” may be allowed based on the following criteria:

- A) **faster** that the instructor is notified
- B) **better the reason** for an absence and **written documentation** for that absence
- C) **more timely completion** of make-up

Should a make-up be allowed, from 0-90% points will be deducted before grading.

The following circumstances will likely allow a make-up with few or no points deducted:

1) **Written statement** from a **health care provider** that student was **too injured or too ill** to participate on the scheduled date. Call the instructor **as soon as you know** that you will miss a lecture, assignment or exam.

2) **Written evidence of military service or jury duty**, or other mitigating circumstances that the instructor agrees were justifiable and unavoidable. Call the instructor **as soon as you know** that you will miss a lecture, assignment, or exam.

3) Students who must miss class because of a **DSU sanctioned activity**, such as an athletic event, club activity, class assignment, or other approved event, are responsible to assuring that their instructors have been notified and for completing any missed assignments.

(Excerpts from Policy 23.5.3 follows)

23.5.3.1 **Prior to the absence**, students traveling with a club, team, or other group on an university-sanctioned activity must request leave.

23.5.3.1.1 Students involved in a club event or an activity related to another course or program requirement must provide written notification from the faculty or staff member supervising the activity that explains the nature of the activity.

23.5.3.1.2 By the **second day of class**, students with recurring absences must provide each instructor written notification from the appropriate department that includes a schedule of competition, the names of those students on specific teams likely to travel, and the dates and approximate times of departure and return to campus.

23.5.3.2 Students must arrange with the instructor to complete missed instruction and/or coursework.

23.5.3.2.1 **One week prior to an absence**, the student will meet with the instructor to arrange a reasonable accommodation, if feasible, to allow the students to complete any missed coursework and/or exams. **Instructor may require the student to submit work prior to the due date if the student will be absent.**

Communication: Students are required to frequently check their Dmail account. Important class and University information will be sent to the Dmail account, including DSC bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at DSC and in your courses. To access your Dmail account, visit go.dixie.edu/dmail. If you do not know your Dmail username or you have forgotten your PIN, visit go.dixie.edu/mydixie and follow the respective instructions

All announcements and other **important class business will occur at the Canvas site.** If you do not know your username or password, see:

http://new.dixie.edu/helpdesk/usernames_and_passwords.php

A copy of the syllabus will be posted under “Files” on **Canvas** and if needed, students may download another copy. (NOTICE...will not be under the syllabus portion of Canvas).

Laboratory handouts will usually be handed out in class. Sometimes, they will be posted under “Files” on **Canvas** and students will then be informed.

ATTENDANCE IS REQUIRED! Attendance is essential to the student’s understanding of both laboratory and lecture topics.

- If a student misses more than 10 minutes of a particular lab exercise, it is considered an absence.
- **If a student is absent for two or more exercises, they FAIL the entire laboratory course no matter how many points they have earned.**
- Each week’s laboratory period is to augment study time for the lecture portion....use this time wisely!
- Come see me for help on a regular basis- don’t wait until the day before an exam when it is too late for much assistance.
- Use the world wide web (sites listed at end of each chapter and within PowerPoint presentations)
- **There will be no FINAL exam for the laboratory.**

Grading:

Attendance and participation.....10 weeks (10 points each)..... 100 points

Grading: There will be 1000 points possible for the course. NO ROUNDING UP OF SCORES WILL OCCUR. Final grades will be based on these ranges:

	B+ = 87-89.99%	C+ = 77-79.99%	D+ = 67-69.99%
A = 94-100%	B = 84-86.99%	C = 74-76.99%	D = 64-66.99%
A- = 90-93.99%	B- = 80-83.99%	C- = 70-73.99%	D- = 60-63.99%
			F = <59.99%

Tentative schedule is provided. This schedule may change and the actual chapters covered for a particular exam may change; attend class on a regular basis to know about such changes.

Mon	Tues	Wed	Thurs	Fri
12 JAN	13 JAN <i>Syllabus</i>	14 JAN	15 JAN <i>Ch 1 Intro to Parasitology</i>	16 JAN <i>LAST DAY TO ADD without Instruct Signature</i>
19 JAN <i>MARTIN LUTHER KING HOLIDAY</i>	20 JAN <i>Ch 2 Basic Principles</i>	21 JAN	22 JAN <i>Ch 3 Immune Response</i>	23 JAN
26 JAN	27 JAN <i>Ch 4 Protistans</i>	28 JAN LAB PROTISTS	29 JAN <i>Ch 5 Protists Kinetoplasta</i>	30 JAN EX 1 Ch 1 Ch 2 & Ch 3
2 FEB <i>LAST DAY REFUND LAST DAY DROP WITHOUT "W"</i>	3 FEB <i>Ch 6 Protists Flagellates</i>	4 FEB LAB PROTISTS COURSES DROPPED FOR NON-PAYMENT	5 FEB <i>Ch 7 Protists Amebas</i>	6 FEB <i>LAST DAY ADD/AUD</i>
9 FEB	10 FEB <i>Ch 8 Protists Apicomplexa (coccidian)</i>	11 FEB LAB PROTISTS	12 FEB <i>Ch 9 Protists Apicomplexa</i>	13 FEB EX 2 Ch 4, Ch 5, Ch 6 & Ch 7

Mon	Tues	Wed	Thurs	Fri
16 FEB <i>PRESIDENT DAY HOLIDAY</i>	17 FEB <i>Ch 10 Protists Ciliated</i>	18 FEB LAB PROTISTS	19 FEB <i>Ch 11 Protists Microsporidia</i>	20 FEB
23 FEB	24 FEB <i>Ch 13 Platyhelminthes Ch 15 Flukes</i>	25 FEB LAB FLATWORMS	26 FEB <i>Ch 16 Flukes</i>	27 FEB EX 3 Ch 8, Ch 9, Ch 10 & Ch 11
2 MAR	3 MAR <i>Ch 17 Flukes</i>	4 MAR LAB FLATWORMS	5 MAR <i>Ch 18 Flukes</i>	6 MAR <i>LAST DAY TO DROP INDIVID CLASS</i>
9 MAR <small>Testing Center Closed</small> <i>SPRING BREAK HOLIDAY</i>	10 MAR <small>Testing Center Closed</small> <i>SPRING BREAK HOLIDAY</i>	11 MAR <small>Testing Center Closed</small> <i>SPRING BREAK HOLIDAY</i>	12 MAR <small>Testing Center Closed</small> <i>SPRING BREAK HOLIDAY</i>	13 MAR
16 MAR	17 MAR <i>Ch 20 Tapeworms</i>	18 MAR LAB TAPE WORMS	19 MAR <i>Ch 21 Tapeworms</i>	20 MAR EX 4 Ch 13, Ch 15, Ch 16, Ch 17 & Ch 18
23 MAR	24 MAR <i>Ch 22-30 Nematodes</i>	25 MAR LAB ROUNDWORMS	26 MAR <i>Ch 22-30 Nematodes</i>	27 MAR

Mon	Tues	Wed	Thurs	Fri
30 MAR	31 MAR <i>Ch 22-30</i> <i>Nematodes</i>	1 APR LAB ROUNDWORMS	2 APR <i>Ch 22-30</i> <i>Nematodes</i>	3 APR
6 APR	7 APR <i>Ch 22-30</i> <i>Nematodes</i>	8 APR LAB ROUNDWORMS	9 APR <i>Ch 22-30</i> <i>Nematodes</i>	10 APR EX 5 Ch 20, Ch 21, Ch 22-30 LAST DAY COMPLETE W ALL COURSES
13 APR	14 APR <i>Ch 36 Lice</i>	15 APR NO LAB	16 APR <i>Ch 37 Bugs</i>	17 APR
20 APR	21 APR <i>Ch 38 Fleas</i>	22 APR NO LAB	23 APR <i>Ch 39 Flies</i>	24 APR
27 APR	28 APR <i>Ch 41 Ticks &</i> <i>Mites</i>	29 APR NO LAB LAST DAY of CLASSES	30 APR <i>NO CLASSES</i> <i>(reading day)</i>	1 MAY
4 MAY	5 MAY	6 MAY	7 MAY	

Important Dates for 2015 Spring Semester (<http://dixie.edu/reg/?page=spring2015>)

Oct 31 Spring 2015 Bachelor's degree Graduation Application Deadline

Nov 17 Spring Registration open to Seniors (90+ earned credits)

Nov 18 Spring Registration open to Juniors (60+ earned credits)

Nov 19 Spring Registration open to Sophomores (30+ earned credits)

Nov 20 Spring Registration open to All Students

Jan 12 Classwork Starts

Jan 15 Last Day for Waitlist

Jan 16 Last Day to Add Without Signature

Jan 19 Martin Luther King Jr. Day

Jan 22 Drop/Audit Fee Begins (\$10 per class)

Jan 22 Residency Application Deadline

Jan 27 \$50 Late Registration/Payment Fee

Feb 2 Spring 2015 Associate's degree Graduation Application Deadline

Feb 2 Pell Grant Census

Feb 2 Last Day for Refund

Feb 2 Last Day to drop without receiving a "W" grade

Feb 4 Courses dropped for non-payment

Feb 6 Last Day to Add/Audit

Feb 16 President's Day

Mar 2 Summer 2015 Bachelor's degree Graduation Application Deadline

Mar 2 Mid-Term Grades Due

Mar 6 Last Day to Drop Individual Class

Mar 9-13 Spring Break

Mar 23 Fall Class schedule available online

Mar 23 Summer Registration open to Seniors (90+ credits)

Mar 24 Summer Registration open to Juniors (60+ credits)

Mar 25 Summer Registration open to Sophomores (30+ credits)

Mar 26 Summer Registration open to all students

Apr 1 Fall 2015 Bachelor's degree Graduation Application Deadline

Apr 10 Last Day for Complete Withdrawal

Apr 13 Fall Registration open to Seniors (90+ credits)

Apr 14 Fall Registration open to Juniors (60+ credits)

Apr 15 Fall Registration open to Sophomores (30+ credits)

Apr 16 Fall Registration open to all students

Apr 29 Classwork Ends

Apr 30 Reading Day

May 1 Associate's degree Graduation Deadline - Summer 2015

May 4-7 Final Exams

May 8 Commencement