

SC/BIOL 4360 3.0 Parasitology

Biology of animal parasites; developmental, structural and functional adaptations of animal parasites to their environment; responses to immune and other challenges by hosts; parasitic diseases.

Course Learning Objectives:

At the end of this course students should be able to....

1. describe general principles and concepts of animal parasitology
2. draw and describe some general principles of systematics and be able to classify major animal parasites of animals and humans
3. draw and describe the structure and function of tissues and organs of many animal parasites
4. describe and be able to compare and contrast the many strategies that parasitic animals have undertaken to successfully complete their life cycles in the face of discontinuity of hosts
5. describe many of the disease conditions that animal parasites cause and to consider measures that may lead to control of these disease agents
6. generalize on the intestine as a place for animal parasites to inhabit and to predict the changes that animal parasites may make to the intestinal milieu that are supportive of the parasite
7. detail how some animal parasites are well adapted to anaerobic environments
8. describe, with the aid of figures, some of the ways by which the host may respond to the presence of animal parasites, in particular in mounting an adaptive and protective immune response, and to consider the many ways by which animal parasites may circumvent the defense mechanisms of the host
9. work effectively and cooperatively in small groups to elucidate an answer to an enquiry based research topic (Students will use data base search engines to investigate the literature of animal parasites and provide a group-written report on the fruits of their investigation.)
10. have the opportunity to present the results of the enquiry based research topic to the class.

Meets:

Three lecture hours

One term - Three credits.

Prerequisites: SC/BIOL 2030 4.0.

Course credit exclusion: SC/BIOL 4360 4.0

Course Director: Dr. R. Webb

Telephone tba

eMail raw@yorku.ca (email will be answered, where possible, within 36

hrs). Responses to email enquiries for materials available in the course outline/lecture schedule will be terse.

Text: (Recommended, but not required) Gerald D. Schmidt & Larry S. Roberts' 'Foundations of Parasitology' 9th ed. Larry S. Roberts, et al. McGraw Hill.

Scheduling: Fall

Lectures

Tuesday and Thursday 10:00 - 11:30 am; Stedman Lecture Hall C. (see Lecture Schedule for topics – PPTs/notes for many lectures will be posted on the Moodle course site, often after the lecture has been given. However, these are but notes – they need to be viewed in a context that can only be obtained by attending lectures. Lectures will serve to enable students to more readily understand and situate the materials in context. Additionally, figures, diagrams and illustrative materials are not necessarily available on the Moodle site – they will be provided, in context, in the lectures)

Assignments and Grading:

Mid Term Exam (Date TBA - 1 hr duration – in class).....	30%
Inquiring based learning assignment.....	15%
Presentation of the enquiry based research topic	5%
Final Exam.....	<u>50%</u>
	<u>100%</u>

Official Course Drop Deadline – TBA.

Other Information:The lecture material for this course will be provided through a variety of media that will, include some on-line delivery and discussions using WebCT and classroom lectures, presentations and discussions. Students enrolled in the course will be provided with a WebCT account to access the materials. Some learning will be required on the part of the student to use the WebCT site most effectively.

Grading, Assignment Submission, Lateness Penalties and Missed Tests

Grading: The grading scheme for the course conforms to the 9-point grading system used in undergraduate programs at York(e.g., A+ = 9, A = 8, B+ = 7, C+ = 5, etc.). Assignments and tests will bear either a letter grade designation or a corresponding number grade (e.g.A+ = 90 to 100, A = 80 to 90, B+ = 75 to 79, etc.)

(For a full description of the York grading system see the York University Undergraduate Calendar -

http://calendars.registrar.yorku.ca/pdfs/ug2004cal/calug04_5_acadinfo.pdf

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Assignment submissions - group assignment and dates for submission of the Enquiry-based learning assignment report will be announced.

Submissions will be penalized for any instances of plagiarism - the size of the penalty will vary with the magnitude of the breach of integrity. All members of the group will be equally penalized - therefore, it is a group responsibility to ensure that all reports are checked before submission to ensure none is plagiarized. I undertake extensive examination of each report to ensure no content is plagiarized - if any is plagiarized I will find it!

Late submissions- will be penalized accordingly.

Missed Tests: Students with a documented reason for missing a course test, such as illness, compassionate grounds, etc., which is confirmed by supporting documentation (e.g., doctor's letter) may request accommodation from the Course Instructor. Submission of documentation does not mean accommodation will automatically be provided.

Further requests for accommodation will require students to submit a formal petition to the Faculty.

IMPORTANT COURSE INFORMATION FOR STUDENTS

All students are expected to familiarize themselves with the following information, available on the Senate Committee on Curriculum & Academic Standards webpage (see Reports, Initiatives, Documents) -

http://www.yorku.ca/secretariat/senate_cte_main_pages/ccas.htm

- York's Academic Honesty Policy and Procedures/Academic Integrity Website
- Ethics Review Process for research involving human participants
- Course requirement accommodation for students with disabilities, including physical, medical, systemic, learning and psychiatric disabilities
- Student Conduct Standards
- Religious Observance Accommodation

Accessibility - I welcome feedback on any aspect of the course at any time, including any comments you may have on accessibility