



INSTRUCTORS:

Dr Victoria Te Brugge (Lectures and Orillia Laboratories)

Orillia: OA 3021

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Dan Duckert (Thunder Bay Laboratories)

Thunder Bay: BB1006

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OFFICE HOURS: TBA

TEXTS:

Required: None

Suggested:

Forest Entomology

Bland, R.G. and H.E. Jaques. 1978. How to Know the Insects.

W.C. Brown Co. Dubuque Iowa. 409 pp.

Castner, J.A. 2001. Photographic Atlas of Entomology & Guide to

Insect Identification [Spiral-bound]

Lab Manual: On the course website (Modified from L. Sevean, Forest

Entomology Laboratory Guide)

LECTURES:

Tuesday and Thursday 4:00-5:30 pm

Thunder Bay, AT 1010

LABORATORY:

Monday 8:30 – 11:30 am

Thunder Bay, BB1006

First lab: week of January 12

EVALUATION:

Lecture Midterm 15% (TBA)

Lecture Final 30% (TBA, comprehensive)

Insect research paper/

Presentation 15%

Lab Assignments3%Quizzes7%Lab midterm15%

Lab Final 15% (TBA)

COURSE OBJECTIVES:

This course examines the theory and practice of Forest Entomology. In the course you will become familiar with the major insect orders and some families. Emphasis will be placed on the biology, ecology and damage caused by insect species that threaten or cause damage to harvestable and saleable timber. You will become familiar with current methods and strategies for controlling these insects and limiting the damage they cause to standing and cut timber. Laboratory periods will focus on insect anatomy. At the end of the course you should be able to identify and recognize select insect orders, families and species.

Important things to remember

- 1. Attend Lectures and Laboratories
- 2. Make good notes /ask questions
- 3. Read your lecture and laboratory materials
- 4. Make a list of scientific terms and learn them
- 5. Be prepared for laboratories
- 6. Keep neat, clear and detailed notes

Attendance in class is important because you get additional information through questions and discussions. Laboratories will not be available for missed material.

If a test or due date is missed because of medical or compassionate reasons (documentation may be required), you must contact the instructor as soon as possible.

Prior permission is required to miss a test or exam due to any other reasons and it is at the instructor's discretion.

Be courteous to others in class. Unnecessary noise, comments and any kind of distractions in class will not be tolerated. Cell phones should be turned off during lectures and labs.

A lab notebook is suggested (available at the campus bookstore) to be brought with you to all laboratories.

In both the lecture and laboratory there are assignments to be handed in. For all lecture and laboratory assignments be aware that plagiarism is an extremely serious academic offense and carries penalties. Students are encouraged to review the University Regulations regarding academic dishonesty. See LAKEHEAD CALENDAR 2014-2015 University Regulations IX Academic Misconduct (http://mycoursecalendar.lakeheadu.ca/pg39.html).

Lecture schedule*

Jan 6/8 Introduction to Forest Entomology/ In	sect anatomy external
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Jan 13/15 Insect anatomy/physiology

Jan 20/22 Insect reproduction

Jan 27/29 Insect populations

Feb 3/5 Defoliators

Feb 10 Mid-term

Feb 12 Defoliators

Reading week Feb 17-20

Feb 24/26 Defoliators

Mar 3/5 Cone and seed eaters

Mar 10/12 Weevils

Mar 17/19 Borers

Mar 24/26 Bark insects

Mar 31/Apr 2 Invasive species

Final exam TBA

* There may be some modifications to the lecture topic/schedule.

Lab schedule

Jan 12 Dissection Microscope and External Insect Anatomy

Jan 19 Arthropod Classification and Exopterygotes

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Jan 26 Quiz+ Endopterygota

Feb 2 Immature Insects

Feb 9 Quiz+ Defoliation insect and Hardwood defoliators

Feb 17-21 Study break

Feb 23 Mid-Term Lab Exam

Mar 2 Softwood Defoliators

Mar 9	Quiz+ Beneficial Insects
Mar 16	Leaf Mining Insects, Sap-sucking Insects, Gall Forming Insects
Mar 23	Quiz +Phloem Borers and Xylem Borers
Mar 30	Final Lab Exam