Revised July, 1985

SAULT COLLEGE OF APPLIED ARTS & TECHNOLOGY

SAULT STE. MARIE, ONTARIO

COURSE OUTLINE

Course Title: FOREST ENTOMOLOGY

Code No.: FOR 112-3

Program: Forestry

Semester: Two

Date: June, 1983

Author: Stan Fischer

New: _____ Revision: x

APPROVED: _____ _____
Chairperson Date

CALENDAR DESCRIPTION

Forest Entomology	FOR 112-3
Course Name	Course Number

PHILOSOPHY/GOALS:

A student completing FOR 112-3 will be familiar with the terminology of forest insect study. The economic importance of forest insect damage, their benefits and control, be able to recognize damage in the field and realize the significance of it.

The student will have a working knowledge of Ontario's major insect problems and will study major pest under hosts range life cycle, seasonal occurrence, feeding type and control.

METHOD OF ASSESSMENT (GRADING METHOD):

Test - Week 5	20%
- Week 9	30%
- Week 13	40%
Lab Assignments	10%
	100%

TEXTBOOK(S):

Insects of Eastern Pines

LAB PERIODS	TOPIC INFORMATION
1-2	Adult Characteristics - insect structure - using specimens and a key, study the six orders of insects most important in forestry
3	Immature Lepidoptera on Conifers - using specimens and slides, study the characteristics of immature Leps. - using slides, study life cycle of important insects of this order on Conifers
4-5	Immature Coleoptera - using specimens and slides, study the characteristics of this order - using slides, study life cycle of important insects of this order
6-7	Immature Hymenoptera - using specimens and slides, study the characteristics of this order - using slides, study life cycle of important insects of this order
8-9	Immature Diptera Hemiptera Homoptera - using specimens and slides, study the characteristics of this order - using slides, study life cycle of important insects of this order
10-11	Immature Lepidoptera on Deciduous - using specimens and slides, study the characteristics of this order - using slides, study life cycle of important insects of this order
12	Shade Tree Insects
13	Test
14	Field Trip

LECTURES	TOPIC INFORMATION
1	Introduction - history of Entomology in Ontario - insects' role in the forest - economic impact - technician's role in entomology
2	Insect Ecology - environmental resistance factors - reproductive potential factors - interrelationship of these
3	Introduction to Leps on Conifers
4	Introduction to Coleoptera
5	Test - 20%
6	Introduction to Hymenoptera
7	Introduction to Diptera Homoptera and Hemiptera
8	Damage and Effect - types of damage and their effect on the forest trees a) shoot feeders b) defoliators c) root feeders d) gall insects e) wood borers f) bark beetles
9	Test
10	Introduction of Leps. on broadleaf trees
11	Biological Control - control options other than chemical are discussed
12	Chemical control - chemicals - methods - precautions
13	Guest Lecturer from Great Lakes Forest Research Centre

S Fischer

ENTOMOLOGY COURSE EVALUATION

Jan-May, 1983

TEST #1	20 %
#2	30 %
#3	40 %
Lab Assignments	10 %
	100 %
General performance	10
	110 (65 is a pass)

BONUS:

Performance
- punctuality
- interest
- initiative
- reliability
- attitude

Start with 10 marks:

- 1 mark is lost for each late lab or is absent without a good reason
- 5 marks are lost for entering lectures late.

Bonus marks up to 5 in total may be added for outstanding performance, participation, effort or initiative.