## A MATHEMATICAL MODEL OF INTER-COLONY SPREAD OF AMERICAN FOULBROOD IN EUROPEAN HONEYBEES (APIS MELLIFERA L.)

## **KIEFFER PATANI SANTOS**

A SPECIAL PROBLEM SUBMITTED TO

THE FACULTY OF THE COLLEGE OF ARTS AND SCIENCES

UNIVERSITY OF THE PHILIPPINES LOS BAÑOS

IN PARTIAL FULFILLMENT OF THE

REQUIREMENT FOR THE DEGREE OF

**BACHELOR OF SCIENCE** 

(Applied Mathematics)

## The Faculty of the Mathematics Division Institute of Mathematical Sciences and Physics College of Arts and Sciences U.P. Los Baños hereby accepts the Thesis entitled

## A MATHEMATICAL MODEL OF THE SPREAD AND CONTROL OF AFRICAN SWINE FEVER (ASF) IN THE PHILIPPINES

by KIEFFER P. SANTOS

In Partial Fulfillment of the Requirements for the Degree of B.S. Applied Mathematics

DR. EDUARDO O. JATULAN
Thesis Adviser
Date
DR. MARK LEXTER D. DE LARA
Head, Mathematics Division
Date
PROF. EDITHA C. JOSE
Director, Institute of Mathematical Sciences and Physics
Date