

**THE COLLABORATION BETWEEN DISCOVERY BASED LEARNING
AND PROBLEM BASED LEARNING MODEL THAT USING
MACROMEDIA FLASH TO STUDENT'S ACHIEVEMENT
AND MOTIVATION IN ELECTROLYTE AND
NON ELECTROLYTE SOLUTION TOPIC**

By :

**Lady Ofina Boangmanalu
NIM 4123332008
Bilingual Chemistry Education Program**



SKRIPSI

**Submitted in Fulfillment of The Requirements for The Degree of
Sarjana Pendidikan**

**FACULTY OF MATHEMATIC AND NATURAL SCIENCES
STATE UNIVERSITY OF MEDAN
MEDAN
2016**