IMPLEMENTATION OF PROBLEM BASED LEARNING INTEGRATED WITH MULTIMEDIA BASED ON COMPUTER TO IMPROVE RESPONSIBILITY AND STUDENT'S LEARNING OUTCOMES ON REACTION RATE SUBJECT MATTER IN SENIOR HIGH SCHOOL

By:

RAJA IHOT SIAHAAN Reg. No. 409332029 Bilingual Chemistry Education Program



THESIS

Submitted to Fullfill The Requirement for The Degree of Sarjana Pendidikan

JURUSAN KIMIA FAKULATAS MATEMATIKA DAN ILMU PENGETAHUAN ALAM UNIVERSITAS NEGERI MEDAN MEDAN 2014