

**THE EFFECTIVENESS OF HYPOTHETICAL-DEDUCTIVE LEARNING
CYCLE TO INCREASE SENIOR HIGH SCHOOL STUDENT'S
ACHIEVEMENT AND COOPERATION IN THE
TEACHING OF COLLOIDAL SYSTEM**

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THESIS

**Submitted to Fulfill the Requirement for Getting Degree of
Sarjana Pendidikan**

THE
Character Building
UNIVERSITY

**CHEMISTRY DEPARTMENT
FACULTY OF MATHEMATIC AND NATURAL SCIENCE
STATE UNIVERSITY OF MEDAN
MEDAN
2014**