Minnesota State University Moorhead

MATH 477: Abstract Algebra II

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 3

Lab Hours/Week: 0

OJT Hours/Week: *.*

Prerequisites:
This course requires the following prerequisite
    MATH 476 - Abstract Algebra I

Corequisites: None

MnTC Goals: None

Fields, Field Extensions, Galois Theory, Sylow Theorems, Finite Simple Groups, Generators and Relations and Cayley Graphs of Groups.

B. COURSE EFFECTIVE DATES: 02/01/2017 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Fields, field extensions and Galois Theory
2. Sylow Theorems, Finite Simple Groups, Generators and Relations and Cayley Graphs of Groups

D. LEARNING OUTCOMES (General)

1. Student will categorize some finite groups.
2. Student will understand free groups.
3. Student will understand the interaction between groups and fields.

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted