

## **11008 Explorations in Modern Mathematics (3)**

### **Learning Outcomes for Explorations in Modern Mathematics, MATH-11008**

#### **Knowledge**

The student should discover mathematical ideas that affect everyday life by comparing various voting methods in mathematics of social choice and demonstrating an understanding of mathematical concepts appearing in nature and management science.

#### **Comprehension**

Should understand the notions of growth and symmetry. Should get acquainted with the mathematics of social choice and statistics.

#### **Application**

The main and most important application is to solve many different problems related to the subject.

#### **Analysis**

Should be able to analyze the odds, the chances and probabilities of events.

#### **Synthesis**

Should continue developing abstract thinking.

#### **Evaluation**

Should complete homeworks, pass midterm tests and a final exam.

#### **Class Activities**

To solve problems in class and discuss theorems.

#### **Out of class Activities**

To submit homework assignments.