



**Mathematics Department Engineering Mathematics I for  
Mechanical Technology  
201-941-DW**

## **COURSE OBJECTIVES**

The purpose of this course is to make the students think. The area in which this is practiced consists of the mathematical problems arising from current procedures in mechanical engineering e.g. robotics, numerical control techniques, estimation, CAD and design in general. Basic techniques of geometry and algebra will be reviewed, expanded, and applied to a set of exercises specifically designed for students in the Mechanical Technology

Program. The student will be given the mathematical knowledge to solve these problems and at the same time the student will get the preparation needed for the Technical Calculus course.

## **COURSE COMPETENCIES**

This course contributes to the partial achievement the competency:

***012E: Solve problems related to industrial mechanics.***

### **Elements of the Competency:**

1. To analyze situations involving variables.
2. To identify dimensions and coordinates for complex objects.
3. To prepare estimates using matrices.
4. To analyze the forces exerted on an object.
5. To analyze the variables of outputs, speeds, and accelerations.
6. To reason with rigor.
7. To communicate clearly and precisely.
8. To extend to different fields of application.

# Mechanical Engineering Mathematics Past Year Papers 201

**Lingjun Ying**



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