

**MATH 770 Course Outline as of Summer 2017****CATALOG INFORMATION**

Dept and Nbr: MATH 770 Title: SUPPLEMENTAL INSTRUCTION

Full Title: Supplemental Instruction: Math and Science

Last Reviewed: 10/25/2021

Units		Course Hours per Week		Nbr of Weeks	Course Hours Total	
Maximum	0	Lecture Scheduled	0	18	Lecture Scheduled	0
Minimum	0	Lab Scheduled	0	6	Lab Scheduled	0
		Contact DHR	10.00		Contact DHR	180.00
		Contact Total	10.00		Contact Total	180.00
		Non-contact DHR	0		Non-contact DHR	0

Total Out of Class Hours: 0.00

Total Student Learning Hours: 180.00

Title 5 Category: Non-Credit

Grading: Non-Credit Course

Repeatability: 27 - Exempt From Repeat Provisions

Also Listed As:

Formerly:

**Catalog Description:**

An open-entry, open-exit class for students who seek, through supplemental instruction and use of computers, to strengthen and reinforce mastery of skills developed in a referring course(s) including the following: Math 1A through Math 155, Physics 1 through Physics 43, Chemistry 1A through Chemistry 310, Engineering 6 through Engineering 45.

**Prerequisites/Corequisites:****Recommended Preparation:****Limits on Enrollment:****Schedule of Classes Information:**

Description: An open-entry, open-exit class for students who seek, through supplemental instruction and use of computers, to strengthen and reinforce mastery of skills developed in a referring course(s) including the following: Math 1A through Math 155, Physics 1 through Physics 43, Chemistry 1A through Chemistry 310, Engineering 6 through Engineering 45. (Non-Credit Course)

Prerequisites/Corequisites:

Recommended:

Limits on Enrollment:

Transfer Credit:

Repeatability: Exempt From Repeat Provisions

## **ARTICULATION, MAJOR, and CERTIFICATION INFORMATION:**

<b>AS Degree:</b>	<b>Area</b>	Effective:	Inactive:
<b>CSU GE:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>IGETC:</b>	<b>Transfer Area</b>	Effective:	Inactive:
<b>CSU Transfer:</b>		Effective:	Inactive:
<b>UC Transfer:</b>		Effective:	Inactive:

**CID:**

**Certificate/Major Applicable:**

Not Certificate/Major Applicable

## **COURSE CONTENT**

### **Student Learning Outcomes:**

At the conclusion of this course, the student should be able to:

1. Use and apply computer software and online resources to solve problems in mathematics, engineering and science.
2. Demonstrate increased skill and knowledge in the subject area and/or courses for which students sought assistance.

### **Objectives:**

Upon successful completion of the course, students will be able to:

1. Effectively utilize computer software to research, analyze, explore and solve problems in mathematics, engineering and science.
2. Research topics from the mathematics, engineering and science curriculum by efficiently using various computer and internet resources.
3. Identify and use appropriate computer software to generate reports for mathematics, engineering and science classes.
4. Use online homework systems to practice problem solving in mathematics, engineering, and science.
5. Apply knowledge obtained through individualized instruction, computer research, and use of software applications to enhance learning in mathematics, engineering, and science courses.

### **Topics and Scope:**

Topics may include:

- I. Problem solving using mathematics software
  - A. Maple/Mathematica

- B. Excel
- C. MyMathLab
- D. DataDesk
- II. Problem solving using Internet resources
  - A. Mathematics resources
  - B. Engineering resources
  - C. Science resources
- III. Online homework systems
- IV. Concepts & applications from referring courses

### Assignment:

Supplemental work on referring instructors' course assignments

### Methods of Evaluation/Basis of Grade:

**Writing:** Assessment tools that demonstrate writing skills and/or require students to select, organize and explain ideas in writing.

None

Writing  
0 - 0%

**Problem Solving:** Assessment tools, other than exams, that demonstrate competence in computational or non-computational problem solving skills.

None

Problem solving  
0 - 0%

**Skill Demonstrations:** All skill-based and physical demonstrations used for assessment purposes including skill performance exams.

None

Skill Demonstrations  
0 - 0%

**Exams:** All forms of formal testing, other than skill performance exams.

None

Exams  
0 - 0%

**Other:** Includes any assessment tools that do not logically fit into the above categories.

Improved knowledge in referring course material

Other Category  
100 - 100%

### Representative Textbooks and Materials:

Students will use texts assigned in the referring class.