# EXAMPLE

# Middlesex Community College:

**COURSE PROPOSAL AND CHANGE FORM**

**Name of person making proposal: Lin Lin**

## I. Type of Change

Change to Existing Course   New Course

Specify Change in a few words: **Prerequisite Change for EGR\*221 Introduction to Electric Circuit Analysis**

## II. Course Information

**Course Description below EXACTLY as it would appear in the catalog description.**

**EGR\*221, Introduction to Electric Circuit Analysis (4 credits)**

This course covers basic concepts, theorems, laws, methods of analysis, and application examples in DC and AC circuits. Topics include resistance, capacitance, inductance, operational amplifiers, Ohm’s Law, Kirchhoff’s Laws, Thevenin’s and Norton’s Theorems, Nodal and loop analysis, first and second order transient circuits, steady-state analysis, and polyphase circuits. Laboratory experiments involve using simulation software and using instruments for circuit building and testing. Four hours of lecture/laboratory per week. *Prerequisite: MAT\*254.*

Division Program

**Science, Allied Science & Engineering** **Technology Studies: Computer Engineering Technology Option**

*What term would you like this course/change to become effective?* ***Fall 2014***

*Will the creation of this course have a significant impact on existing courses?*  Yes  No *If yes, how?*

## III. Justification for New Course or Change to Existing Course

*Original course prerequisite was: EGR\*111 and MAT\*254.*

EGR\*111 (Introduction to Engineering) and EGR\*221 are not sequenced courses. EGR\*111 introduces a broad range of topics in Engineering, as well as engineering analysis methods. EGR\*221 introduces the basic concepts and laws and analysis methods in DC and AC circuits. Students are able to take EGR\*221 without taking EGR\*111 first, as long as they take MAT\*254 Calculus I. Therefore, EGR\*111 was removed from the prerequisite.

In addition, due to the student enrollment numbers in these courses, currently both courses are only offered once per year. If some students miss EGR\*111 due to schedule conflicts, they are not able to take EGR\*221even if they are mathematically ready. The students have to wait for a semester or two to take EGR\*111, and then wait for another semester or two to take EGR\*221. The change of the prerequisite should greatly reduce student’s waiting time to take EGR\*221 and therefore help improve the retention and graduation rate.

IV. Attach Course Outline and Draft Syllabus

V. Further Course Information (*FOR NEW COURSES ONLY*)