

## COURSE SYLLABUS (2 Page)

**Course Number:** CEGR 2102  
**Course Name:** Engineering Economic Analysis

**Credits and Contact Hours:** 3

**Instructor:** David Naylor

**Textbook:** *Title:* Engineering Economic Analysis, 12<sup>th</sup> ed.  
*Authors:* Newnan, Lavelle, Eschenbach  
*Year:* 2014

**Other Supplemental Materials:** Handouts

**Catalog Description:** Economic analysis of engineering solutions; present and annual worth analysis; cost benefit analysis; internal rate of return analysis; bonds and cost estimating.  
*Most Recently Offered (Day):* Spring 2016, Fall 2015, Summer 2015  
*Most Recently Offered (Evening):* Course has not been offered in 3 years

**Pre-Requisites/Co-Requisites:** ENGR 1201

**Course is: Required (R)**

**Goals:** Students will be able to analyze, economically, several solutions to engineering problems and then based on that analysis, choose the best solution.

### **Student Outcomes Addressed:**

In this course, students will develop the following Student Outcomes:

- E. an ability to identify, formulate, and solve engineering problems
- K. an ability to use the techniques, skills, and modern engineering tools necessary for engineering practice
- M. an ability to explain key concepts and problem solving processes used in business, public policy, and public administration

### **Course Topics:**

Class topics will include investment choice, equivalence, present worth analysis, annual worth analysis, cost benefit analysis, internal rate of return analysis, cost estimating, bonds, taxes, depreciation, risk, inflation and capital budgeting.