

ADVANCED SCHOLARS

UNIVERSITY OF NEBRASKA-LINCOLN

Faculty

MICHAEL W. RILEY

*Professor
Industrial and Management
Systems Engineering*

Professor Riley is a registered professional engineer.

He is a teaching award recipient and UNL Parents Association award winner.

ENGINEERING ECONOMY I (IMSE 206)

3 Credits

Course Description

IMSE 206 is an introduction to methods of economic comparisons of engineering alternatives. Methods include present worth, annual worth, rate of return, and benefit of cost analysis. Concepts presented include time value of money depreciation, taxes, activity based costing, cost estimating, nominal interest rate, effective interest rate, interest factors, payback period, capitalized cost, capital recovery, bonds, and inflation. This course consists of solving quantitative economic analysis problems. IMSE 206 is a required or elective course in many engineering programs. Topics presented in this course are included on the Fundamentals of Engineering Examination which is the first exam in obtaining professional licensure.

Course Objectives

1. Develop general problem solving skills.
2. Gain an understanding of basic cost concepts used in economic analysis.
3. Become familiar with concepts of time value of money, economic equivalence, and commonly used methods for comparing investment alternatives.
4. Learn and demonstrate techniques for incorporating depreciation and income tax calculations into an economic analysis.
5. Understand the procedures for performing benefit cost analysis for projects in the public sector.

Course Components

- Reading Exercises
- Audio Lectures
- One Project
- Three Exams

Technology Requirements

Must meet EDU requirements.

Access to Internet and e-mail required.