Title: **TCCN:**	**Engineering Economics** **ENGR ####**
Draft Course Description	Methods used for determining the comparative financial desirability of engineering alternatives. Provides the student with the basic tools required to analyze engineering alternatives in terms of their worth and cost, an essential element of engineering practice. The student is introduced to the concept of the time value of money and the methodology of basic engineering economy techniques. The course will address some aspects of sustainability and will provide the student with the background to enable them to pass the Engineering Economics portion of the Fundamentals of Engineering exam. Prerequisites: MATH 2413—Calculus I and ECON 2301—Principles of Macroeconomics or ECON 2302—Principles of Microeconomics
Draft Course Outcomes	Upon successful completion of this course, students will: 1. Apply different methods to calculate the time value of money. 2. Construct cash flow diagrams for a given problem. 3. Estimate total revenue, total cost, and break-even points. 4. Calculate the uniform series payment, given principal, interest rate, and pay period. 5. Perform project evaluation, including cost/benefit analysis. 6. Articulate principles of taxation and depreciation. 7. Perform capital budgeting, cost comparisons, and replacement analyses. 8. Solve problems at a level consistent with expectations of the engineering economics portion of the Fundamentals of Engineering exam.

NOTE: The prerequisite Engineering Graphics I, as originally proposed for this course by the Tuning Committee for Industrial Engineering, has been proposed for deletion by the Tuning Committee for Electrical Engineering so that this course can be included in the Voluntary Transfer Compact for Electrical Engineering.