

Classes: Monday, Wednesday, Friday 1:30 - 2:35 PM

Instructor: David M Kender

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Office Hours: As posted and by appointment.

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Course Description: Explores engineering management practices involving basic problem formulation, process analysis, and system improvement using the methods and procedures for flow charting and process mapping; data and activity modeling; Gantt Charts and Pareto Charts; Critical Path Analysis, Work Breakdown Structure (WBS), and Program Evaluation and Review Technique (PERT). Application software programs include MS Excel, MS Visio and ARENA Simulation.

Course Objectives: Develop skill in using engineering management analytical tools and techniques; sharpen critical thinking, problem solving, and communication skills; foster collaboration among students through cooperative team project activities. Specifically, students will be able to critique the strengths and weaknesses of a process analysis and improvement scenario; and will be able to develop a process analysis and improvement project plan, written report, and oral presentation.

Course Requirements and Evaluation: Students are expected to attend and participate in all scheduled classes. Course grades will be based on several criteria including a subjective evaluation of effort, learning, and understanding. Class participation during lectures/discussions as well as contributions to projects and exercises and will be considered in assigning an overall course grade; absences from class may have a detrimental impact on your overall course grade.

Prerequisites: ISE 301 and ISE 471

Exercises: Multiple exercises (both in-class and out-of-class) will be assigned throughout the quarter. Students are encouraged to work collaboratively on all exercises.

Project: A comprehensive analysis project constitutes an important element of the course. The purpose of this project is to develop experience in defining, analyzing, evaluating systems and processes and to designing and recommending systems and process improvements. Please refer to the Systems and Process Analysis Project Handout which will be provided later in the course.

Tests: One exam (final) is scheduled. The exam will be closed-book, however students are permitted and encouraged to use their own self-generated review notes. The exam may include demonstrating proficiency with the course software application programs.

Academic Integrity: The instructor fully endorses the Wright State University policy to uphold and support standards of personal honesty and integrity for all students consistent with the goals of a community of scholars and students seeking knowledge and truth.

Reasonable Accommodations Policy: Any student with a disability that may prevent them from fully demonstrating their abilities should contact me personally as well as the **Office of Disability Services** as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities.

Grading Criteria: Grades will be based on all aspects of the course, including effort, attitude, participation, learning, comprehension, understanding and overall quality; and will be awarded as follows.

<u>Element</u>	<u>Number</u>	<u>Proportional Value</u>
Exercises	Points vary	50%
Project	Comprehensive Course Project	30%
Exam	Final	20%

<u>Grade</u>	<u>Grading Criteria</u>	<u>Approximate Numeric Equivalent</u>
A	The overall work can be described as excellent.	90 - 100%
B	The overall work can be described as very good.	80 - 89%
C	The overall work can be described as adequate.	70 - 79%
D	The work seems to represent poor or little effort.	60 - 69%
F	The work appears to be of little or no value.	< 60%

Last day to drop the class without a letter grade

Monday, September 28, 2009

Last day to drop the class with a letter grade of "W"

Monday, October 26, 2009

Veterans Day - No Classes

Wednesday, November 11, 2009

Last Day of Class - All assignments due

Friday, November 13, 2009

Final Exam

Monday, November 16, 2009 1:00 - 3:00 PM