Due no later than 10:30AM, Tuesday, November 16, 2004. 
Late submittals will absolutely incur substantial points penalty.

You must work independently. Consultation with fellow students is NOT permitted.
If you have questions, you can reach me by email at dkender@wright.edu or at home by phone 937 323-1980.
Be sure to complete the certification on the bottom of this test sheet. If this test sheet is not turned in with your answer sheet, ten points will be automatically deducted from your overall exam score!

1. Game Theory
   a. Describe two examples of partial conflict (variable sum) games.
   b. List two assumptions that are fundamental to game theory applications.

2. Simulation Modeling
   a. List three advantages of using simulation models.
   b. Compare/contrast deterministic vs. stochastic models.
   c. Define verification and give an example.
   d. List four different queuing behaviors.
   e. List four different queuing disciplines.

3. Rapid Prototyping
   a. List three goals of early prototyping.
   b. Discuss horizontal vs. vertical prototyping.
   c. List and discuss three advantages of prototyping.
   d. List and discuss two pitfalls of prototyping.
   e. List three different methods for creating physical rapid prototypes.

4. Engineering Ethics
   List the six fundamental canons of the National Society of Professional Engineers Code of Ethics.

5. Personal Development
   Are you a member of a student chapter of an engineering society? If so, which one(s)?
   If you are not a member, list four good reasons for joining a professional engineering society.

6. Engineering Education System
   Our textbook, Section 6.3, pp 248 - 253, discusses the Accreditation Board for Engineering and Technology (ABET) accreditation process. Fundamental to the process is the recognition that students and graduates are important members of the constituency and as such, play a major role in defining an engineering program. Criterion 2 (Program Educational Objectives) defines the program objectives as those statements that describe the expected accomplishments of graduates during the first few years after graduation. List six accomplishments you expect to achieve during the first three years after you graduate from Wright State University with a Bachelors Degree in Engineering. Describe how one might measure whether or not you succeeded in achieving these objectives.

I certify that I did not receive nor provide any help from or to fellow student(s) with respect to this test. Any exceptions to the foregoing are listed on the reverse side.

Printed Name __________________________ Signature __________________________ Date ___________

In-Class
The in-class portion of the final exam deals with an engineering ethics scenario. Be prepared to write a brief essay explaining how you might deal with the situation. Be sure to bring a copy of the NSPE Code of Ethics for Engineers.