**INSTRUCTOR : Dr. Abdullah Alharbi**

**OFFICE : 273, The College of Business Administration**

**OFFICE HRS : by appointment**

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**COURSE TIME: Monday 1-4 pm**

**TEXT BOOK:**

* **Greasley, Andrew, Simulation Modeling for Business, Ashgate, 2004**
* **Hand-outs**

**COURSE DESCRIPTION:**

Modeling and analysis of complex dynamic systems using state-of-the-art software such as ARENA. Illustrative application areas include production systems, service systems, distribution systems and health care systems. Topics include creating reliable simulation models, analyzing the input and output from the model and managing simulation projects.

**CLASS PROCEDURE:**

The procedures followed in this class will be similar to those followed in other Business courses. The main method of instruction is lecture with student participation. There will be an in-class group discussion which helps students to exchange experiences and enrich the lecture.

**GROUP CASES:**

Groups will be assigned to work on few small cases during the semester. The group formation will be assigned by me. Due to the size of the class, we will try to form small groups.

**EXAMINATIONS:**

There will be one midterm exam which will cover about one half of the material and is scheduled to take 60 to 90 minutes. The final exam is usually given at the time set by the University.

**ATTENDANCE:**

Attendance is expected, and will be tracked daily. Since this class meets fewer than 15 times, missing more than 3 sessions is considered excessive and will adversely affect your final course grade. In addition, poor attendance explicitly affects your class participation score. If you miss class, I expect you to get the notes and be familiar with the material by the next class. You are responsible for all materials covered in class during your absence, including new assignments.

**HONOR CODE:**

Plagiarism in any form is not acceptable. While discussing homework and projects with classmates is encouraged, all work submitted must be your own work. Evidence of plagiarism on an assignment or an exam will result in a failing grade for that assignment/exam and might also result in failing the course.

**GRADES:**

Mid-Term Exams: 25% (Tuesday, Nov 29, 2016)

HW and Case Analysis & Presentation: 25%

Participation: 10%

Final Exam: 40%

Total: 100%

**COURSE OUTLINES:**

Introduction to Simulation Modelling

Introducing Simulation to the Organization

Building the Model

Validation and Verification

Analysis and Implementation

Case study

Note: The Simulation software (Flexsim) will be introduced to the class and will be used for all projects.