CS 5420 : TECHNIQUES OF SIMULATION

Semester Hours:	3.0	*Contact Hours:* 3
Coordinator:	Hassan Rajaei	
Text:	Simulation Using Promodel	
Author(s):	HARRELL, GHOSH, BOWDEN	
Year:	2012	

SPECIFIC COURSE INFORMATION

Catalog Description:

Principles of simulation and application of simulation languages to both continuous and discrete systems. Prerequisite: Full Admission to MS in CS program or consent of department.

Course type: **ELECTIVE**

SPECIFIC COURSE GOALS

- I can identify application areas of computer simulation such as industry defense, finance, and education.
- I can explain the differences between the types of simulation such as Monte Carlo, VS. Discrete Event, and/or Real-time simulation.
- I can analyze relevant research and communicate my findings.

LIST OF TOPICS COVERED

- Introduction
- Simulation Basics
- Stages of Simulation Model Development
- Abstract Representation Techniques
- Random Number Distribution
- Evaluation of Simulation Modeling