**CSCI 6380 Problems in Computer Science**

**Spring 2013**

**Instructor:** [**Xiang Lian**](http://faculty.utpa.edu/lianx/index.html)

**Office:** ENGR 3.275

**Web:** <http://faculty.utpa.edu/lianx/index.html>

**Email:** [lianx@utpa.edu](mailto:lianx@utpa.edu)

**Prerequisite:** Consent of instructor

**Syllabus**

## Description

An area of computer science is examined under the direction of a faculty member prior to enrollment in master’s thesis or project courses.

## Learning Outcomes

* An ability to apply knowledge of computing and mathematics appropriate to the discipline
* An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
* An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs
* Recognition of the need for and an ability to engage in continuing professional development
* An ability to use current techniques, skills, and tools necessary for computing practice
* An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices
* An ability to apply design and development principles in the construction of software systems of varying complexity

## Disclaimer

The instructor reserves the right to alter this syllabus as necessary.