

CSI 2999: Sophomore Project

**Credits Hours:** 4 credits, 3.57 contact hours/week.

**Instructor:** Tao Shu, Ph.D.

**Text book:** Creative Problem Solving and Engineering Design, 2nd Edition, by E. Lumsdaine, M. Lumsdaine, J. W. Shelnutt, and G. E. Dieter, McGraw-Hill, 2005.  
Formal Languages and Automata [paperback] Peter Linz, Jones & Bartlett Learning ISBN-13: 978-1-4496-1552-9

### **Specific course information**

A team-oriented project work consisting of a small project to build skills in needs assessment, group problem solving, and written and oral technical presentations.

**Prerequisites:** CSI 2300

**Required course** for CS and IT major

**Course Objectives:** Upon successful completion of this course, students should be able to

- Demonstrate ability to elicit and formulate requirements and scope of software projects [ABET CS: (b, g), IT: (b, g, k)]
- Effectively use software engineering tools to develop and manage software project [ABET CS: (a, c, h, i, j, k), IT: (a, c, h, i, j, k, l, m, n)]
- Demonstrate ability to effectively work in a team environment [ABET CS: (d), IT (d)]
- Illustrate and apply concepts of ethics [ABET CS: (e), IT: (e)]
- Demonstrate competency in oral and written communications [ABET CS: (f), IT: (f)]

### **List of Topics:**

- Project scope and software requirements
- Software engineering tools
- Ethics of work
- Communicating the project idea