COMP 5620, User Interface Design and Evaluation

**Credit hours:** 3 lecture  
**Contact hours:** 3 lecture

**Catalog Description:** Theory and practice of designing interfaces for interactive systems, usability engineering techniques; implementing and evaluating interfaces.

**Prerequisites:** COMP 3270 or departmental approval  
**Corequisites:** None

**Selected Elective Course** (CSCI, SWEN, WIRS)

**Instructor or Course Coordinator:** Dr. Hari Narayanan

**Required Textbook**  

**Reference Materials**  
Articles and references from conferences, journals, and other resources as appropriate.

**Course Outcomes**  
The student will be able to
- design, develop, implement, and evaluate user interfaces for interactive systems.
- use interface development tools.

**Topics Covered**
- User interface design, process and product (2 hours)
- Human factors (2 hours)
- User interaction and design guidance (2 hours)
- Interaction devices (2 hours)
- Interaction styles (2 hours)
- Managing the design process (5 hours)
- Interaction design (5 hours)
- Usability engineering (5 hours)
- Rapid prototyping (3 hours)
- Formative evaluation (6 hours)
- User interface development tools (3 hours)
- Exams (3 hours)

**Course Requirements**
- Homework assignments (30%)
- Exams (40%)
- Presentation (10%)
- Project (20%)