

CSCI Course Descriptions

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October 2014

CSCI 430 Software Engineering

3.0 FA WP

Prerequisites: CSCI 311 for CSCI/CINS/APCG majors or EECE 337 for Engineering majors; ENGL 130 or JOUR 130 (or equivalent) all with a grade of C- or higher.

An overview of software engineering principles, practices, and tools. Topics include: agile software engineering methodologies, requirements engineering, test-driven development, software design patterns, MVC architecture, version control, software metrics, and static analysis. Students work in groups to design and implement a semester-long open source software project.

2 hours discussion, 2 hours activity. This is an approved Writing Proficiency course; a grade of C- or better certifies writing proficiency for majors.

CSCI 431 Usability Engineering

3.0 SP

Prerequisites: CINS 110, CINS 465, or CSCI 430 for CSCI/CINS majors; CDES 322, CDES 327, CDES 437 or APCG 360 for other majors.

An in-depth study of user experience (UX) design with an emphasis on usability evaluation methods. Students practice hands-on techniques including: usability testing, survey design, card sorting, contextual inquiry, wireframing and rapid prototyping. Students work in multi-disciplinary teams on user experience design projects.

2 hours discussion, 2 hours activity.