

This course covers fundamental principles underlying wireless communications and networking. Topics covered include wireless transmission principles, protocols, satellite communications, cellular wireless networks, cordless systems, the wireless local loop, mobile IP, and wireless networking technologies, including IEEE 802.11 and Bluetooth standards.

CENG 492 Senior Design Project I (2:0:6)

Pre-requisite(s): Senior Standing

Co-requisite: ECEN 491

The course requires seniors to work in small teams to solve significant problems. Over the duration of CENG 492 and CENG 493, students design, implement, and evaluate a solution to the problem in conjunction with a faculty advisor. The course reinforces gained design principles and serves as a capstone for computing knowledge obtained in the BSCE curriculum. The recognition of the ethical and legal principles are also aspects of the course.

CENG 493 Senior Design Project II (4:0:12)

Pre-requisite(s): CENG 492

Implementation of the project for which preliminary work was done in CENG 492. Project includes designing and constructing software and/or hardware, conducting experiments or studies, and testing and validating a complete system. At the end of the term, each team presents to a committee information related to its project in both written and oral formats.