

# ECSE 496x/696x Courses

- **ECSE-4964/6965 Distributed Systems and Sensor Networks**

Recent developments in systems, sensors, communications and networking technologies enable the emergence of large-scale distributed systems incorporating many individual nodes. Such systems are used in applications ranging from environmental sensing, distributed robotic systems, and medical systems, to web-based ad hoc networks in urban environments. This course will include topics on sensors, sensor fusion, localization and tracking, sensor networking, distributed robotics and sensor-based control, sensor network databases, and distributed architectures for sensor networks. Applications of special interest will include environmental monitoring and security-related tracking problems. Textbook: *Wireless Sensor Networks: An Information Processing Approach*, F. Zhao and L. Guibas, Morgan Kaufmann, 2004. Prerequisites: ECSE 2410 – Signals and Systems. Cr: 3. Instr: Sanderson

