

# **ECE 6615 – Sensor Networks**

## **Topical Outline**

Introduction

Sensor Networks Architecture and Protocol Stack

Factors influencing the design of sensor networks

Sensor Network Applications

Application Layer

Transport Layer Protocols

Routing Algorithms

Medium Access Control Protocols

Error Control Algorithms

Physical Layer Solutions

Localization and Target Detection Algorithms

Time Synchronization Algorithms

Sensor and Actor (Actuator) Networks

Coordination and Communication Problems

Underwater Sensor Networks

Application Examples