



# Network Programming

## CSE 5462

**Credit Hours:**

3.00

---

**Course Levels:**

Undergraduate (1000-5000 level)

Graduate (5000-8000 level)

---

**Course Components:**

Lecture

Lab

---

**Course Description:**

IP-based socket programming in C/C++, TinyOS programming in NesC.

---

**Prerequisites and Co-requisites:**

Prereq: 3461, 5461, or ECE 3561.

---

**Course Goals / Objectives:**

- Master socket programming in C or C++
  - Master TinyOS programming in NesC
  - Be competent with application development and debugging in Unix environments
  - Be competent with application development and debugging in TinyOS environment
- 

**Course Topics:**

- Review of C pointers and memory allocation/deallocation
  - Review of the Unix environment
  - NesC
  - Communication using UDP sockets
  - Communication using TCP sockets
- 

**Designation:**

Elective