

## CSCE 390 - Professional Issues in Computer Science and Engineering

**Credit Hours:** 1 hours

**Contact Hours:** 1 lecture hour

**Instructor:** Drs. Valtorta and Thatcher

**Required Textbooks:** Robert N. Barger. *Computer Ethics: A Case-based Approach*. Cambridge University Press, 2008.

**Bulletin Description:** Professional issues in the information technology professions; history and social context of computing; professional responsibilities; privacy; intellectual property; risks and liabilities of computer-based systems. Note: Carolina Core: VSR

**Prerequisites:** none

**Required Course** in CE, CIS, and CS programs

**Learning Outcomes:** Students will be able to:

1. Relate computing issues to philosophical systems and ethics
2. Resolve ethical dilemmas in the field of computing
3. Apply professional codes of conduct to realistic situations
4. Demonstrate familiarity with current social and ethical issues related to computing
5. Investigate different professional career paths and the lifelong learning involved
6. Present results and opinions on ethical and professional issues in written and oral formats

**Student (Program) Outcomes addressed by course** (Detailed mappings of these course outcomes to the Student Outcomes of the programs are in the detailed syllabus and the Assessment plan.)

Student Program Outcomes	SOs supported	SOs Moderately supported
Computer Engineering	f, g, i,	j
Computer Information Systems	e, f, g, h	IS-j
Computer Science	e, f, g, h	

**Topics covered:**

1. Social role of computing (2)
2. Professional codes of conduct (1)
3. Privacy and civil liberties (3)
4. Intellectual property (3)
5. Risks and liabilities (3)
6. Professional organizations (1)
7. Career options (1)