CSC 300 – Professional Responsibilities

1. CSC 300 – Professional Responsibilities

2. credit units 4  contact hours 6

3. Course Coordinator: Clark Turner

4. Textbook (or other required material):
   Johnson, Computer Ethics, Prentice-Hall OR Baase, A Gift of Fire, Prentice Hall

5. a. Course Description:
   The responsibilities of the computer science professional. The ethics of science and the
   IEEE/ACM Software Engineering Code of Ethics. Quality tradeoffs, software system safety,
   intellectual property, history of computing and the social implications of computers in the
   modern world. Applications to ethical dilemmas in computing. Technical presentation
   methods and practice. 3 lectures, 1 laboratory.

   b. Prerequisite: CSC/CPE 357 and junior standing.

   c. Required/Elective/Selective Elective for CPE, CSC, EE, SE

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6. a. Course Learning Objectives
   The student will be able to:
   • Discuss the field of software reliability and software safety
   • Discuss the legal principles of liability for unsafe software systems
   • Discuss the legal principles underlying intellectual property
   • Discuss and write about the social impacts of software and computers
   • Evaluate and make rational computer and software engineering tradeoffs
   • Apply the IEEE/ACM Software Engineering Code of Ethics to real situations
   • Evaluate and justify alternative software design rationales in professional presentations.

   b. Level at which Student Outcomes are addressed
   (“B” = Basic level, “I” = Intermediate level, “A” = Advanced level)

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7. **Major Topics Covered: (number of lecture hours per)**
   - Ethical Basics in Technical Context (4)
   - IEEE/ACM Software Engineering Code of Ethics (2)
   - Social Case Studies (4)
   - Information Privacy (issues, policies and laws) (4)
   - Software Safety (issues, policies and laws) (6)
   - Computer Crime (2)
   - Intellectual Property (2)
   - Technical Presentation Principles (2)
   - Student Presentations (10)