CSCI 4800  Senior Project in Information Technology

Credit Hours:  3

Contact Hours:  3

Course Coordinator:  Terry Countermine

Text(s):  None

Catalog Description:

This course is designed for the last semester of study. It is a capstone course that enables the student to tie many of his/her learning experiences together. Students work in teams to identify software projects on campus and in the community that can be accomplished in 15 weeks. Lectures focus on professional issues that include the short-term and long-term future of IT; strategies for finding and securing employment; non-technical elements of professional competence; and strategies for continuing career development after college.

Prerequisite(s):  Senior status in Computer Science within two semesters of graduation

CS:  MAJOR ELECTIVE
IS:  MAJOR ELECTIVE
IT:  REQUIRED

Course Outcomes:

Understand teaching methods used in teaching technological concepts –
Discuss current topics relevant to computer science -
Use interpersonal and communication skills - ETSU Outcomes 1a, 1b; ABET Outcomes f
Understand the concept of service learning -
Solve real world technology problems -
Reconfigure older computers to be recycled to local schools –
Discuss current topics relevant to computer science -
Quantify the types of technological problems that computer users encounter - ETSU Outcomes 2a, 2b; ABET Outcomes e.1, e.5
Understand the need for technology support in the public schools and non-profit organizations ETSU Outcomes 2a, 2b; ABET Outcomes e.1, e.5
Understand the need for and the environmentally safe way to dispose of eWaste –
Understand the concept of service learning -
Major Topics:

- Evaluation of Teaching
- Evaluation of IT Curriculum
- Outsourcing, Home-sourcing, Crowd-sourcing
- Cheating in Education
- History of Computing
- Mobile Devices and Applications
- Public Domain Software and Shareware
- Recycling, eCycling, and eWaste
- eLearning
- Funding of Public Education
- Software as a Service (SaaS)
- Cloud Computing
- Resume creation, Interview skills, job searches
- Ethical and Legal Issues dealing with Technology