CSC/CPE 406 Software Deployment

1. CSC/CPE 406 Software Deployment

2. credit units 4 contact hours 6

3. **Course Coordinator**: David Janzen

4. **Textbook**: (and/or other required material) Feathers, Working Effectively with Legacy Code, Prentice Hall, 2005

5. a. **Course Description**: Deployment of a sizeable software product by a student team. Software maintenance and deployment economic issues. Management of deployed software: version control, defect tracking and technical support. 3 lectures, 1 laboratory. Crosslisted as CPE/CSC 406.
   b. **Prerequisite**: Prerequisite: CSC/CPE 405
   c. **Required/Elective/Selective Elective for CPE, CSC, EE, SE**

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6. a. **Course Goals/Outcomes**
   - To learn skills required to deploy, maintain, and enhance a high-quality software product
   - To know and execute principles and concepts of software deployment
   - To know and execute principles and concepts of software maintenance
   - To know and execute principles and concepts of software quality assurance
   - To work effectively as a member of a team to meet project milestones
   - To understand and apply a software process
   - To understand and apply software metrics
   - To learn how to estimate software project work
   - To effectively write and speak about software engineering
   - To understand software marketing principles
   - To understand software licensing and vendor partnership issues

b. **How Student Outcomes addressed**
   (“B” = Basic level, “I” = Intermediate level, “A” = Advanced level)

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7. **Major Topics Covered:** (Each week is 3 hours of laboratory time)

- **Week 1:** Deployment issues: fundamental principles and processes
- **Week 2:** Deployment issues: marketing, licensing
- **Week 3:** Software systems testing: software metrics, quality attribute testing
- **Week 4:** Software systems testing: usability testing, coverage testing, acceptance testing
- **Week 5:** Software evolution: release management principles, defect tracking
- **Week 6:** Software maintenance
- **Week 7:** Software deployment: installation, media, configuration parameters
- **Week 8:** Software deployment: economics
- **Week 9:** Project reports
- **Week 10:** Project reports