Exam 2 Notes

CEN 5035
Software Engineering

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Coverage

- Lectures covering *topics* 9-14 (from syllabus) for students who have **NOT** taken CEN 4072 or CEN 6070, Soft. Testing & Verification.

- Students who **HAVE** taken CEN 4072 or CEN 6070 will be given questions on Sommerville Chapters 11 and 15 (which concern system dependability and security) in lieu of questions on (1) the *Intro to Proofs of Correctness* lecture notes and (2) all four “Self-Check” Exercises.

- Reading: Sommerville Chapters 27 (on-line), 18, 21 (except 21.3.1-2), 22, and 26.

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Lesson from Exam 1...

Students who would like to perform well on exam 2

Students who should read Sommerville chapters 27, 18, 21, 22, and 26!

Students who have **not** read Sommerville chapters 27, 18, 21, 22, and 26!
Coverage (cont’d)

- **Topics:**
  - **Formal Specification:** formal specification in the software process, sub-system interface (algebraic) specification, behavioral (model-based) specification, functional specification, etc.
  - **Introduction to Proofs of Correctness:** axiomatic verification, predicate transforms, functional verification, etc. (NOT for students who have taken CEN 4072/6070)

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Coverage (cont’d)

- **Topics: (cont’d)**
  - **Distributed Software Engineering**: distributed systems issues, client-server computing, architectural patterns for distributed systems, Software as a Service (SaaS), etc.
  - **Aspect-Oriented SE**: the separation of concerns, aspects, join points, and pointcuts, V&V in aspect-oriented SE, etc.

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Coverage (cont’d)

- Topics: (cont’d)
  - **Project Management**: risk management, managing people, teamwork, etc.
  - **Process Improvement**: the process improvement *process*, process measurement, process analysis, process change, the CMMI process improvement framework, etc.
Other resources

- Self-check exercises and sample solutions (NOT for students who have taken CEN 4072/6070)
  - Pre- and Post-Condition Specification Exercise
  - Axiomatic Verification Exercises
  - Predicate Transform Exercises
  - Functional Verification Exercises

- Practice exam problems (All but the THREE most recent are based on EARLIER editions of the text and may therefore include problems that are obsolete and/or irrelevant.)

- Optional outside readings (not required for the exam)
Exam Logistics

- Exam 2 will be held on Friday, Nov. 22 from 11:45 AM - 1:40 PM in CSE 122 (our normal classroom) for ALL GAINESVILLE AREA STUDENTS.

- EDGE students residing outside the Gainesville area ONLY should make arrangements with their EDGE-approved proctor to take the exam NO EARLIER THAN NOON, Eastern Standard Time, on Nov. 22, or anytime Nov. 25 or 26.
Ground Rules and Format

- You will have 90 minutes to work on the exam.
- No notes, books, calculators, cell phones, PDAs or other electronic devices (other than a watch) are allowed.
- Bring your UF picture ID card.
- Problem format may be short answer/essay, matching, true/false, proofs, fill-in-the-blank, etc.
- All answers should be printed in the spaces provided on the exam only.
- The point-value of each problem will be indicated.
- Please do NOT ask questions about problems during the exam. If you are unsure of what is being asked or what is meant, either skip the problem or just use your best judgment.
Exam Procedures for OUT-OF-TOWN EDGE Students

- Proctors will be asked to schedule a SINGLE EXAM TIME for all students at each site.

- Please make prior arrangements with your proctor to take the exam Friday **afternoon** (Nov. 22), or anytime the following Monday or Tuesday.

- Proctors should return electronic copies of completed exams via e-mail or FAX directly to the instructor ASAP after administration.
Make-Up Exam Policy

- Students are expected to be available at the scheduled exam time. Do **NOT** schedule conflicting elective activities (family gatherings, interview trips, vacations, etc.).

- If missing an exam is unavoidable (e.g., due to sickness, accident, or other reasons beyond your control), contact the instructor as far in advance as possible.

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Make-Up Exam Policy (cont’d)

- Make-up exams, when permitted, may be administered orally.
- If it is not practical to administer a make-up exam before the end of the term, a course grade of "I" (incomplete) may be assigned.
Questions?
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