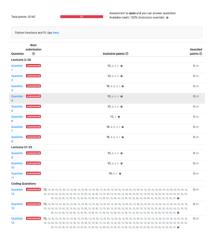
CAMPUSWIRE post #1573

4) Final Exam

I am not completely done with the final exam, but decided to post the current status now, in case it is helpful when you are studying. I will be posting the final updated version on Wednesday (I am expecting little or no changes).



You will still have the full 3 hours to complete the final exam, which was designed to be a 90 min test (so you are getting double the time!)

Two of the coding question refer to lectures 3-20 and the other one refers to lectures 21-25

For the non-coding questions in the first zone (lectures 3-20), you will have one question for each of the following topics:

- 1. Conditioning (and consequently, linear systems and norms)
- 2. Errors/convergence
- 3. Taylor Series
- 4. Sparse matrices
- 5. Nonlinear system of equations
- 6. Optimization
- 7. Eigenvalues
- 8. Floating point / IEEE / Rounding

You can find on PrairieLearn a sample final exam. **Note that this assessment does NOT represent the difficulty or length of the actual final exam.** I basically just compiled a lot of the HW questions in one assessment. You can create multiple instances of this sample final exam, to see different question variants.

Final exam policies:

- you can use any of the course resources available online
- you should not use physical notes or books
- you can use software/resources such as jupyter notebooks
- you are not allowed to communicate with others about any content of the final exam (students and non-students) during the exam period, starting from December 11 until December 19.