First of all:

Well done!!
You guys have done well in class!
About the final. Topics

• The final will be on the entire course
• I know it is a lot of material, so focus in particular on the following:
  • Understand concepts, not names or facts
  • Make sure you understand basic physics concepts such as gravity, the nature of light, Newton’s laws, blackbody radiation, etc
  • Also, practice using small angle formula, inverse square law formula, kepler’s laws, unit conversions, etc
• Cosmology will not be part of the exam
A word about formulae

- Formulae tell a story. Understand the story and you will know what formula to use.
- Formulae that you need to know include:
  - Small angle formula
  - Luminosity vs Flux
  - Stefan-Boltmann’s Law
  - Blackbody Formulae
  - Newton’s Laws of dynamics
  - Newton’s Law of Gravity
  - Kepler’s Laws
  - Schwarzschild Radius
  - Doppler Effect
  - Relation between resolution and diameter of a telescope
  - Energy of a photon
About the final. Practicalities

- You have 3 hours for your final
- There will be 36 multiple choice questions, similar to the ones you did in the midterms and in lectures. Approximately 2/3 of the grade
- There will be 2 open problems. Approximately 1/3 of the grade
- The final is worth 40% of the total grade.
- The exam is open book-open notes. Bring a calculator.
- No laptops, cell phones, no extra-books, etc
- **BRING SCANTRONS!**
- **PUT NAME AND VERSION A/B ON EXAM!!!!!!**
About the final.
How to get a good grade

• Plan how to use your time: read all the questions before starting your exam.
• Read each question carefully
• **Pay attention to units**, ask yourself if the numbers that you are getting make sense.
Any questions?
The End

Final Exam March 16, noon
Good Luck!