

**GEO 302c Climate: Past, Present and Future
Review Questions for Final Exam**

Note that Final Exam will have 100+ multi-choice questions. The contents to be tested are mainly from the book (see below for specific chapters) plus some additional materials that have been emphasized in class.

For Chapters 1–18, please see review questions for previous three exams.

Chapter 19

1. **Key term:** greenhouse surprise
2. What factors will determine how much CO₂ humans add to the atmosphere in the future?
3. Where will all this excess carbon eventually go?
4. In what sense will future CO₂ warming be like past CO₂ warming? Unlike them?
5. In a 2×CO₂ world, what ice will be melting and what vegetation changes will be under way?
6. How many trends under way in the last few decades can be expected to continue?
7. In a 2×CO₂ world, what ice will be melting and what vegetation changes will be under way?
8. What techniques will allow us to monitor future changes in the thickness of ice sheets?
9. What techniques will allow us to monitor future changes in subsurface ocean temperature?
10. Will future temperature changes be readily apparent to the average person? Why (or why not)?
11. How will climate change impact human health?
12. What are the alternative energy sources that help reduce CO₂ emissions?
13. What are the options that humans can do when facing climate change?