To best prepare for the first Systems II exam, you should familiarize yourself with the following subjects.

- 2 categories of air pollution
- Inversions and air pollution
- Acid rain and its causes
- Monsoons
- High pressure systems & deserts
- Milankovitch cycles
- Ocean acidification & climate change
- Seasonal zig-zag pattern to atmospheric CO₂
- Ekman transport and upwelling/downwelling
- Extent of wave disturbance in water
- Average depth of ocean-abyssal plain
- Bathymetry
- Active vs Passive coastal margins
- Trenches
- Percentage of salt in seawater
- Depth of salt formation if the entire ocean evaporated
- Causes of seawater density differences
- Gyres
- Aragonite vs Calcite Seas
- Calculation of apparent sedimentation rate
- Celerity of deep and shallow water wave
- Settling velocity of particle in water
- Difference in response to temperature rise in arctic as opposed to the tropics
- Origin point and formation mechanisms of ocean water masses
- Distribution of marine sediments and their causes.

Should you have any questions about the list, please contact me at any time. If I’m sleeping, I’ll address your question after I wake up. If you wait until the day before the exam to look over this list, don’t expect a timely answer to your questions. 😊