

Bio: M.Sc. in Science and Technology Studies. Worked in industry, then as a research director for a university medical school and as a futurist consultant for large companies and governments. Started two nanotech companies. Climate Reality Leadership Corps instructor. Currently finishing a Cli-Fi thriller about climate change.

Course Description 500 characters who what when why how

- Everyone's talking about climate change. Do you know enough about it to hold up your end of a conversation? Each week, we will focus on a set of climate change challenges with lecture, videos, and discussion. Topics include human and natural causes, how the climate has changed over time, and sea level rise. We will also discuss possible solutions (some easy, some hard, and some currently unfeasible), some producing noticeable improvement, and some both necessary and politically impossible.

Course Content

Climate Change Challenges

Week 1: What causes climate change?

- Human causes; natural forces; climate change over time

Week 2: Current effects of climate change (Part 1)

- Weather patterns changing
- Increasingly violent storms
- Draughts

Week 3: Current effects of climate change (Part 2) and near-term outlook

- Forest fires
- Sea level rise
- Near-term outlook

Week 4: Long-term outlook

- 2030s to 2048
- 2048 and beyond

Week 5: Solutions?

- Easy
 - *Electric vehicles
 - *Better insulation
 - Solar/wind/geothermal power
- Harder
 - End coal extraction and burning
 - End oil extraction and burning

- End gas extraction and burning
 - End all fracking
- Currently unfeasible
 - Large-scale carbon removal
 - Co² disassembly (nanotechnology)