• Prologue: The Three Questions
  ◦ Is there life in the Universe?
  ◦ Is there intelligent life in the Universe?
  ◦ If you were in charge, where would you be looking for life?

• The roles of astronomy, planetary science, biology, chemistry...

• The significance of finding life elsewhere

• When we say *life*, what do we mean?

• How to define life?
  - does it have order?
  - does it reproduce?
  - does it grow?
  - does it utilize energy?
  - does it respond to the environment?
  - does it evolve and adapt?

• The biological definition of *life*

• Is a computer program alive? Artificial intelligence. Siri.