

August 19, 2020  
MSE 2101 topics

- 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.
- Is life elsewhere expected?
- Drake's equation