Department of Earth and Planetary Sciences
Suggestions for Thematic Plan of Study 15-16
Questions? Ask Chenoweth (moffatt@eps.harvard.edu)

Students must discuss and develop individual plans of study together with their concentration adviser. This ensures that the upper-level courses in EPS and related fields provide a coherent focus. The following lists may help focus these discussions, but students should have the option to suggest and develop their own themes outside these boundaries.

- **Focus on Atmospheric and Ocean Science**
  EPS/ES 112 Thermodynamics by Case Study
  EPS/ES 131 Introduction to Physical Oceanography and Climate
  EPS/ES 132 Introduction to Meteorology and Climate
  EPS/ES 133 Atmospheric Chemistry
  EPS 134 Global Warming Debates: The Reading Course
  EPS/ES 135 Physics and Chemistry: In the Context of Energy and Climate
  EPS 136 Introduction to Ocean Circulation Physics
  OEB 118 Biological Oceanography
  AM 104 Series Expansions and Complex Analysis
  AM 105 Ordinary and Partial Differential Equations

- **Focus on Energy and Climate**
  EPS 109 Earth Resources and the Environment
  EPS/ES 112 Thermodynamics by Case Study
  EPS/ES 131 Introduction to Physical Oceanography and Climate
  EPS/ES 132 Introduction to Meteorology and Climate
  EPS 134 Global Warming Debates: The Reading Course
  EPS/ES 135 Physics and Chemistry: In the Context of Energy and Climate
  EPS/ES 162 Hydrology and Environmental Geomechanics

- **Focus on Environmental Geoscience**
  EPS 51 Intro to Planetary Materials and Earth Resources
  EPS 109 Earth Resources and the Environment
  EPS/ES 112 Thermodynamics by Case Study
  EPS/ES 133 Atmospheric Chemistry
  EPS/ES 135 Physics and Chemistry: In the Context of Energy and Climate
  EPS 136 Introduction to Ocean Circulation Physics
  EPS/ES 160 Space Science: Theory and Applications
  EPS/ES 162 Hydrology and Environmental Geomechanics
  EPS 189 Analytical and Field Methods in Geobiology
  ES 164 Environmental Chemistry

- **Focus on Geobiology**
  EPS/OEB 56 Geobiology and the History of Life
  EPS 74 Field Experiences in Earth and Planetary Sciences
  EPS/OEB 107 Evolution of Plant Life in Geologic Time
  EPS 181 Historical Geobiology
  EPS 182 Stratigraphy and Sedimentology
  EPS 186 Low Temperature Geochemistry I: Introduction to biogeochemical cycles
  EPS 187 Low Temperature Geochemistry II: Modern and ancient biogeochemical processes
  EPS 189 Analytical and Field Methods in Geobiology

- **Focus on Geochemistry**
  EPS 51 Intro to Planetary Materials and Earth Resources
  EPS/ES 112 Thermodynamics by Case Study
  EPS/ES 133 Atmospheric Chemistry
  EPS/ES 135 Physics and Chemistry: In the Context of Energy and Climate
  EPS 141 Isotope and Trace Element Geochemistry and Geochronology
  EPS 145 Introduction to Igneous Petrology and Petrogenesis
  EPS 146 Ocean Ridges and the Earth Systems
  EPS 150 Earth-like Planets and Planetary Materials
  EPS 186 Low Temperature Geochemistry I: Introduction to biogeochemical cycles
  EPS 187 Low Temperature Geochemistry II: Modern and ancient biogeochemical processes
  EPS 189 Analytical and Field Methods in Geobiology

- **Focus on Geology**
  EPS 51 Intro to Planetary Materials and Earth Resources
  EPS 56 Geobiology and the History of Life
  EPS 74 Field Experiences in Earth and Planetary Sciences
  EPS/ES 112 Thermodynamics by Case Study
  EPS 145 Introduction to Igneous Petrology and Petrogenesis
  EPS 146 Ocean Ridges and the Earth Systems
  EPS 150 Earth-like Planets and Planetary Materials
  EPS 152 Global Geophysics: A Primer
  EPS 171 Structural Geology and Tectonics
  EPS 181 Historical Geobiology
  EPS 182 Stratigraphy and Sedimentology
  EPS 189 Analytical and Field Methods in Geobiology

- **Focus on Planetary Sciences**
  EPS 51 Intro to Planetary Materials and Earth Resources
  EPS/ES 112 Thermodynamics by Case Study
  EPS 150 Earth-like Planets and Planetary Materials
  EPS 152 Global Geophysics: A Primer
  EPS/ES 160 Space Science: Theory and Applications
  Astro 16 Stellar and Planetary Astronomy
  Astro 189 Exoplanet Systems
  AM 104 Series Expansions and Complex Analysis
  AM 105 Ordinary and Partial Differential Equations

- **Focus on Solid Earth Geophysics**
  EPS 146 Ocean Ridges and the Earth Systems
  EPS 152 Global Geophysics: A Primer
  EPS/ES 162 Hydrology and Environmental Geomechanics
  EPS 166 Consequences of Earthquakes
  AM 104 Series Expansions and Complex Analysis
  AM 105 Ordinary and Partial Differential Equations

- **For preparation for advanced work in any sub-discipline**
  EPS 100 The Missing Matlab Course: An Introduction to Programming and Data Analysis
  EPS/ES 112 Thermodynamics by Case Study
  AM 111 Introduction to Scientific Computing
  AM 115 Mathematical Modeling
  CS 50 Introduction to Computer Science I