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 50 The Fluid Earth: Oceans, Atmosphere, Climate & Environment
- EPS-ESE 112 Thermodynamics by Case Study
- EPS-ESE 130 Biogeochemistry of Carbon Dioxide and Methane
- EPS-ESE 131 Introduction to Physical Oceanography and Climate
- EPS-ESE 132 Introduction to Meteorology and Climate
- EPS-ESE 133 Atmospheric Chemistry
- EPS 134 Climate Change Debates: The Reading Course
- EPS-ESE 135 Physics and Chemistry: In the Context of Energy and Climate
- EPS 138 Mysteries of Climate Dynamics
- EPS 139 Paleoclimate as Prologue

**Focus on Energy and Climate**
- EPS-ESE 109 Earth Resources and the Environment
- EPS-ESE 112 Thermodynamics by Case Study
- EPS-ESE 130 Biogeochemistry of Carbon Dioxide and Methane
- EPS-ESE 131 Introduction to Physical Oceanography and Climate
- EPS-ESE 132 Introduction to Meteorology and Climate
- EPS-ESE 133 Atmospheric Chemistry
- EPS 134 Global Warming Debates: The Reading Course
- EPS-ESE 135 Physics and Chemistry: In the Context of Energy and Climate
- EPS 139 Paleoclimate as Prologue
- EPS-ESE 162 Hydrology

**Focus on Environmental Geoscience**
- EPS 51 Introduction to Planetary Materials and Earth Resources
- EPS-ESE 109 Earth Resources and the Environment
- EPS-ESE 112 Thermodynamics by Case Study
- EPS-ESE 130 Biogeochemistry of Carbon Dioxide and Methane
- EPS-ESE 133 Atmospheric Chemistry
- EPS-ESE 135 Physics and Chemistry: In the Context of Energy and Climate
- EPS-ESE 160 Space Science and Engineering: Theory and Applications
- EPS-ESE 162 Hydrology
- EPS 189 Analytical and Field Methods in Geobiology
- ESE 164 Environmental Chemistry
• **Focus on Geobiology**
  EPS 53 Marine Geochemistry
  EPS-OEB 56 Geobiology and the History of Life
  EPS-OEB 107 Evolution of Plant Life in Geologic Time
  EPS 174 Field Experiences in Earth and Planetary Sciences
  EPS 182 Stratigraphy and Sedimentology
  EPS 187 Low Temperature Geochemistry II: Modern and Ancient Biogeochemical Processes
  EPS 189 Analytical and Field Methods in Geobiology

• **Focus on Geochemistry**
  EPS 51 Introduction to Planetary Materials and Earth Resources
  EPS 53 Marine Geochemistry
  EPS-ESE 112 Thermodynamics by Case Study
  EPS-ESE 130 Biogeochemistry of Carbon Dioxide and Methane
  EPS-ESE 133 Atmospheric Chemistry
  EPS-ESE 135 Physics and Chemistry: In the Context of Energy and Climate
  EPS 139 Paleoclimate as Prologue
  EPS 141 Isotope and Trace Element Geochemistry and Geochronology
  EPS 142 Mineralogy
  EPS 145 Introduction to Igneous Petrology and Petrogenesis
  EPS 146 Ocean Ridges and the Earth System
  EPS 187 Low Temperature Geochemistry II: Modern and Ancient Biogeochemical Processes
  EPS 189 Analytical and Field Methods in Geobiology

• **Focus on Geology**
  EPS 51 Introduction to Planetary Materials and Earth Resources
  EPS 52 Global Geophysics: A Primer
  EPS-OEB 56 Geobiology and the History of Life
  EPS-ESE 112 Thermodynamics by Case Study
  EPS 139 Paleoclimate as Prologue
  EPS 142 Mineralogy
  EPS 145 Introduction to Igneous Petrology and Petrogenesis
  EPS 146 Ocean Ridges and the Earth Systems
  EPS 171 Structural Geology and Tectonics
  EPS 174 Field Experiences in Earth and Planetary Sciences
  EPS 182 Stratigraphy and Sedimentology
  EPS 189 Analytical and Field Methods in Geobiology

• **Focus on Planetary Sciences**
  EPS 51 Introduction to Planetary Materials and Earth Resources
  EPS 52 Global Geophysics: A Primer
  EPS-ESE 112 Thermodynamics by Case Study
  EPS 120 Planetary Sciences
  EPS 142 Mineralogy
  EPS-ESE 160 Space Science and Engineering: Theory and Applications
• **Focus on Solid Earth Geophysics**
  EPS 52 Global Geophysics: A Primer
  EPS 55 Earthquakes and Tectonics
  EPS 120 Planetary Sciences
  EPS 142 Mineralogy
  EPS 146 Ocean Ridges and the Earth System
  EPS-ESE 162 Hydrology
  EPS 166 Introduction to Seismology

• **For Preparation for Advanced Work in Any Sub-Discipline**
  EPS 100 The Missing Matlab Course: An Introduction to Programming and Data Analysis
  EPS-ESE 112 Thermodynamics by Case Study