

Department of Earth and Planetary Sciences
Suggestions for Thematic Plan of Study 18-19
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 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