

☆☆☆☆☆☆☆☆☆☆ COURSE GOALS ☆☆☆☆☆☆☆☆☆☆☆

**PLANETOLOGY 143353
INTRODUCTION TO PLANETOLOGY**

Wintersemester 2014-2015, Mo, 8:30-10:00 AM, IG 1, SR E

Harald Hiesinger
Institute of Planetology, Wilhelm-Klemm-Str. 10, Room 111c, Phone: 83-39057
Hiesinger@uni-muenster.de
Office hours: Wed 8-10, Thu 8-10, or by appointment

Planetary Geology: Six Basic Course Goals:

1. Understand approach to scientific study and analysis: Science 'appreciation':

- How does science work?
- Why is it important?
- History and evolution

2. Understand basic astronomical concepts:

- Celestial sphere and orbits
- Electromagnetic spectrum
- Our place in the Universe

3. Understand how the planets work:

- Features
- Processes
- Interior
- History: past and future

4. Where does Earth fit in context of the Solar System?

- We have a 'terra-centric' view.
- Data point of one: need perspective and context; other planetary bodies provide this.

5. What are the basic themes in the formation and evolution of the planets?

- Birth, Formative Years, Middle Age, Death.
- What can we learn from other planets?

6. How does this perspective give us to a better understanding of our own home planet, Earth?

- Why is the Moon different from the Earth? Mars?
- What about environmental change?
- When did life originate? And WHERE?