

Final syllabus (pensum):

I. “*An introduction to seismology, earthquakes, and earth structure*” by Stein and Wysession:

- Chapter 1: all
- Chapter 2: all, up to (incl.) 2.8.2
- Chapter 3: 3.2.2, 3.4 – 3.7
- Exercises Chap. 2: 3, 5a, 6 – 16, 19 – 23, 25, 28, 29, 31, 32. Chap. 3: 1, 2, 5, 6, 12, 13

Errata: errors in the book are listed at <http://epscx.wustl.edu/seismology/book/errata.html>

II. “*The use of Ambient Seismic Noise in Seismology - When noise becomes a signal*”:

- Lecture notes by A. Köhler, distributed in class

III. “*Body waves and Ray Theory*”:

- Lay and Wallace – *Modern Global Seismology*, Chapter 3.1-3.4, pp 70-93
- Nolet – *A Breviary of Seismic Tomography*. Chapter 2.10, pp 30-32. Exercise 1 and 2 on Fresnel zone

IV. Mandatory computer exercise on reflection and transmission coefficients.