



**Literature for GEOM12, Bedrock Geology: Sedimentary
Geology and Basin Analysis applies from autumn semester
2023**

Literature established by Study programmes board, Faculty of Science on
2022-12-06 to apply from 2022-12-06

See appendix.

Litteraturlista för GEOM12, Berggrundsgeologi: Sedimentär geologi och bassänganalys, 15 hp gällande från och med höstterminen 2023

Reading list for GEOM12, Bedrock Geology: Sedimentary Geology and Basin Analysis valid as of the autumn semester 2023

Lecture Sedimentary basins: overall types and stratigraphic signatures

1) Tectonics of Sedimentary Basins: Recent Advances, First Edition. Edited by Cathy Busby and Antonio Azor. 2012 Blackwell Publishing Ltd. '

Chapter 1, p. 3-43 : R. V. Ingersoll: Tectonics of sedimentary basins, with revised nomenclature

Chapter 20, p. 405-426 P. G. DeCelles Foreland basin systems revisited: variations in response to tectonic settings

Chapter 30, p. 602-620 P.A. Allen and J.J. Armitage: Cratonic basins

Lecture Facies and microfacies analyses

2) M.E. Tucker and V. P. Wright, 1990: Carbonate Sedimentology, Blackwell Publishing Ltd.

Chapter 1 Carbonate sediments and limestones: constituent, p. 1-27

Lecture Diagenesis

2) M.E. Tucker and V. P. Wright, 1990: Carbonate Sedimentology, Blackwell Publishing Ltd.

Chapter 7 Diagenetic processes, products and environments, p. 314-364

Lectures on sequence stratigraphy

3) Catuneanu, O. 2006. Principles of sequence stratigraphy. Elsevier, Amsterdam

Chapter 5 Systems Tracts, p 165-234

Lectures on paleoenvironmental proxies

4) Sharp, Z., 2017. Principles of stable isotope geochemistry. University of New Mexico.
https://digitalrepository.unm.edu/unm_oer/1/

Chapter 1; 2.1 to 2.6; 3.1-3.3; 5.1-5.5; 6; 7.3-7.4; 9.1-9.3

5) Frank, M. 2002 Radiogenic isotopes: tracers of past ocean circulation and erosional input, *Review of Geophysics* 40. 1-38.

The part on Nd, Sr and Os

- 6) Smrzka, D., Zwicker, J., Bach, W., Feng, D., Himmler, T., Chen, D. & Peckmann, J. (2019). The behavior of trace elements in seawater, sedimentary pore water, and their incorporation into carbonate minerals: a review. *Facies*, 65, Article 41. <https://doi.org/10.1007/s10347-019-0581-4>
- 7) Pogge von Strandmann, Philip A.E. and Kasemann, S. and Wimpenny, J. (2020) Lithium and Lithium Isotopes in Earth's surface cycles. *Elements* 16 (4), pp. 253-258. ISSN 1811-5209.