



Literature for NGEN25, Physical Geography: Algorithms and Data Structures in GIS applies from the spring semester 2026

**Literature established by The Education Board of Faculty of Science on
2025-06-06 to apply from 2025-06-06**

The main literature used in the course:

- Harrie, L., 2023. Lecture notes in GIS algorithms. A digital version is available in the Canvas course.
- Duckham, M., Q. Sun, and M. F. Worboys, 2024. GIS: A Computing Perspective, 3rd edition. CRC press.
- Springer Handbook of Geographic Information
- Snyder, J. P., 1987. Map Projections - A Working Manual
- Scientific articles distributed throughout the course by the teachers.

Recommended extra reading:

- Xiao, N., 2016. GIS Algorithms, Sage
- Think Python by Allen B. Downey