

# University of Pretoria Yearbook 2022

## Cartography 110 (GMC 110)

**Qualification** Undergraduate

**Faculty** Faculty of Natural and Agricultural Sciences

**Module credits** 10.00

**NQF Level** 05

**Programmes** BIT (Information Systems)

BSc (Computer Science)

BSc (Information and Knowledge Systems)

BSc (Geoinformatics)

BSc (Meteorology)

BSc (Chemistry)

BSc (Geography and Environmental Science)

BSc (Geology)

BSc (Physics)

BSc extended programme - Physical Sciences

**Service modules** Faculty of Engineering, Built Environment and Information Technology

**Prerequisites** No prerequisites.

**Contact time** 1 practical per week, 3 lectures per week

**Language of tuition** Module is presented in English

**Department** Geography Geoinformatics and Meteorology

**Period of presentation** Semester 2

### Module content

History, present and future of cartography. Introductory geodesy: shape of the earth, graticule and grids, datum definition, elementary map projection theory, spherical calculations. Representation of geographical data on maps: Cartographic design, cartographic abstraction, levels of measurement and visual variables. Semiotics for cartography: signs, sign systems, map semantics and syntactics, explicit and implicit meaning of maps (map pragmatics). Critique maps of indicators to measure United Nations Sustainable Development Goals in South Africa.

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