
COURSE: Geological mapping, mod.I

ACADEMIC YEAR:2018-2019

TYPE OF EDUCATIONAL ACTIVITY: Characterizing

TEACHER: Paolo Giannandrea

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Language: Italiano

ECTS: 5 (2 lessons and 3 tutorials/practice)

n. of hours: 50 (16 lessons and 34 tutorials/practice)

Campus:Potenza
Dept./School:Dipartimento di Scienze
Program: Geological Sciences (L34)

Semester:
(date) **01/10/2018 to 15-31 January 2019**

EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES

Educational goals: field collection and mapping of the geological data in order to draw a geological map.

Expected learning outcomes:

- Obtaining 3D information from the official geological maps published by the Italian Geological Survey, to interpret the structural setting of the rock bodies.
- Describing, classifying, correlating and representing geological data on topographic maps.

PRE-REQUIREMENTS

Have passed the examination of the courses of: Geology 1, Geology 2, and Physical Geography

SYLLABUS**SYLLABUS**

- 1) Introduction to the geological mapping.
- 2) Instruments used for the geological mapping.
- 3) Use of the geological compass.
- 4) Interpretation of the geological maps.
- 5) Geological cross-sections.
- 6) Lithological characters of some sedimentary and volcanic formations of the southern Apennines.
- 7) Cartographic representation of natural and artificial outcrops.
- 8) Description of sedimentary rocks.
- 9) Spatial relationships between outcrops and correlations.
- 10) Reconstruction of sedimentary successions.
- 11) Principles of aerial photograph interpretation.

TEACHING METHODS

Theoretical lessons, Classroom tutorials, and field tutorials.

EVALUATION METHODS

An intermediate verification, Written examination, Discussion of a project work, Oral examination.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Rilevamento Geologico di Giorgio Cremonini - Pitagora Editrice, Bologna.
- Lettura delle carte geologiche di Brian Simpson - Dario Flacco Editore.
- Quaderno 1, serie III dell'SGN,1992, 2003.
- Approccio alla Geologia Stratigrafica di Loris Montanari.
- Monographic scientific articles in Italian and English.

INTERACTION WITH STUDENTS

Using three-way preferential: telephone, email and in person in the office hours.

EXAMINATION SESSIONS (FORECAST)¹

24/01/2019, 14/02/2019, 14/03/2019, 11/04/2019, 16/05/2019, 20/06/2019, 18/07/2019, 12/09/2019, 10/10/2019,
21/11/2019.

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION

¹Subject to possible changes: check the web site of the Teacher or the Department/School for updates.