
COURSE: Geological mapping, mod.I

ACADEMIC YEAR:2019-2020

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: **52** (16 lessons and 36 tutorials/practice)Campus:**Potenza**
Dept./School:Dipartimento di Scienze
Program: Geological Sciences (L34)Semester 1:
(date) 01.10.2019 to 20. 11. 2019/20. 01. 2020

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.
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PRE-REQUIREMENTSHave passed the examination of the courses of: Geology , Structural Geology, Paleontology, Stratigraphy and Sedimentology, Physical Geography

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.
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TEACHING METHODSTheoretical lessons, Classroom tutorials, and field tutorials.

EVALUATION METHODSTwo intermediate verifications, Written examination, Discussion of a project work, Oral examination.

TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL

- Slides of the lectures.
 - 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.
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INTERACTION WITH STUDENTSUsing three-way preferential: telephone, email and in person in the office hours.

EXAMINATION SESSIONS (FORECAST)¹

23/01/2020, 13/02/2020, 12/03/2020, 09/04/2020, 14/05/2020, 18/06/2020, 16/07/2020, 10/09/2020, 08/10/2020, 19/11/2020.

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.