

COURSE: Calculus		
ACADEMIC YEAR: 2017/2018		
TYPE OF EDUCATIONAL ACTIVITY: basic		
TEACHER: Angelica Malaspina		
e-mail: angelica.malaspina@unibas.it		website:
Phone: +39 0971 205879		mobile (optional):
Language: italian		
ECTS: (lessons e tutorials/practice) 8	n. of hours: (lessons e tutorials/practice) 72	Campus: Potenza Dept./School: DIS Program: Geological Sciences
EDUCATIONAL GOALS AND EXPECTED LEARNING OUTCOMES The aim of the lectures is to provide the student with the calculus. Moreover, the course will introduce some of the basic definitions and elementary algebraic operations on matrices.		
PRE-REQUIREMENTS The main items required are good background in elementary algebra, goniometry and analytic geometry.		
SYLLABUS Set of numbers. Continuous functions definition and continuity theorems. Limits of functions. Derivative of a function. The shape of the graph. Indefinite and definite integrals. Infinite sequences. Series. Matrices.		
TEACHING METHODS The course includes 72 hours divides in - 48 hours of frontal lectures. The main theorems are shown and examples and applications are provided. - 24 hours of blackboard exercises are proposed.		
EVALUATION METHODS Partial written examination after the first half of the course and partial written examination at the end of the course. Oral examination. For those did not pass the two partial written examinations, a complete written examination is scheduled at each exam session. A score of 18 on 30 is needed to pass the written test and to do oral examination. Use of calculators is admitted. Use of notebooks, tablets, smartphones and books is forbidden.		
TEXTBOOKS AND ON-LINE EDUCATIONAL MATERIAL - Analisi Matematica 1, M. Bramanti, C.D. Pagani, S. Salsa, Zanichelli (2014). - Esercizi di Analisi Matematica (vol 1), S. Salsa, A. Squellati (2011). - Teacher's handouts/slides		
INTERACTION WITH STUDENTS		

Student office hours:

tuesday from 10:00 to 13:00 and friday from 11:30 to 12:30.

Students can also contact the teacher by sending an email to angelica.malaspina@unibas.it

web site: http://oldwww.unibas.it/utenti/malaspina/Teaching.html/MatGeo16_17/matematica.html

or <https://elearning.unibas.it/>

EXAMINATION SESSIONS (FORECAST)¹

Written examination dates:

30/01/2018, 21/02/2018, 17/05/2018, 20/06/2018, 10/07/2018, 19/09/2018, 10/12/2018.

Oral examination dates will be fixed a week after of every written examination.

It is mandatory to book in each examination on site <https://unibas.esse3.cineca.it/Home.do>

The dates of the intermediate exams will be fixed during the course (probably the first one is expected in early December and the second one at the end of the course).

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.