



Scienze della Formazione Primaria

General information	
Academic subject	Elements of Geometry
Degree course	Scienze della Formazione Primaria
Academic Year	3rd
European Credit Transfer and Accumulation System (ECTS)	6
Language	Italiano
Academic calendar (starting and ending date)	
Attendance	Not compulsory

Professor/ Lecturer	
Name and Surname	Amedeo Altavilla
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Telephone	
Department and address	Dipartimento di Matematica
Virtual headquarters	
Tutoring (time and day)	Send an e-mail for a meeting

Syllabus	
Learning Objectives	
Course prerequisites	
Contents	Elements of logic and set theory; Euclid axioms and foundation of Euclidean geometry; first deductions from the axioms; congruences criteria for triangles; notable triangles; notable polygons and their properties. Regular polygons and their properties; circles and discs. Lengths and areas. Similitudes among polygons and relatives criteria. Solids in space and some description of notable solids. Volumes.
Books and bibliography	A.Gimigliano, L. Peggion, Elementi di Matematica, UTET Università.
Additional materials	

Work schedule			
Total	Lectures	Hands on (Laboratory, working groups, seminars, field trips)	Out-of-class study hours/ Self-study hours
Hours			
	45		
ECTS			
6			
Teaching strategy			
Lectures with exercise classes and discussion. Possible laboratory activities.			
Expected learning outcomes			
Knowledge and understanding on:		<p><i>Knowledge and understanding</i> Knowledge of fundamentals principles of the topic, such as capability of abstraction and of computation through basic geometric models.</p> <p><i>Making informed judgements and choices</i> Development of an autonomous judgement of own knowledge.</p>	

	<i>Capacities to continue learning</i> Development of a good level of self learning.
Applying knowledge and understanding on:	<i>Applying knowledge and understanding</i> Learning to analyse and comprehend problem situations connected to reality.
Soft skills	<i>Gaining a rational approach to real life problems.</i>

	<ul style="list-style-type: none"> • <i>Communicating knowledge and understanding</i> • <i>Capacities to continue learning</i>
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Assessment and feedback	
Methods of assessment	Written exam with possible oral exam (mandatory if the written exam is not fully sufficient or if it is online)
Evaluation criteria	<ul style="list-style-type: none"> • <i>Knowledge and understanding</i> <ul style="list-style-type: none"> ○ Ability of understanding a text • <i>Applying knowledge and understanding</i> <ul style="list-style-type: none"> ○ Translating in logical language propositions in natural language • <i>Autonomy of judgment</i> <ul style="list-style-type: none"> ○ Ability of using techniques and contents in everyday situations • <i>Communicating knowledge and understanding</i> <ul style="list-style-type: none"> ○ Ability of exposing clearly the contents of the teaching • <i>Capacities to continue learning</i> <ul style="list-style-type: none"> ○ Ability of readapting the contents of the classes in other contexts
Criteria for assessment and attribution of the final mark	The written exams has clear points for each question. The possible oral exam will be focused on the main lacks of the written exam
Additional information	