



# UNIVERSITÀ DI PAVIA

Anno Accademico 2017/2018

GEOLOGICAL SURVEY	
Enrollment year	2015/2016
Academic year	2017/2018
Regulations	DM270
Academic discipline	GEO/03 (STRUCTURAL GEOLOGY)
Department	DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES
Course	GEOLOGICAL SCIENCES
Curriculum	PERCORSO COMUNE
Year of study	3°
Period	2nd semester (01/03/2018 - 15/06/2018)
ECTS	9
Lesson hours	128 lesson hours
Language	Italian
Activity type	WRITTEN AND ORAL TEST
Teacher	TOSCANI GIOVANNI (titolare) - 9 ECTS
Prerequisites	NO prerequisite
Learning outcomes	<p>The aim of the course is to provide to the student the following skills: (i) orienteering in the field; (ii) examination of an outcrop from the lithological, stratigraphical and structural viewpoints; (iii) mapping of stratigraphic and tectonic contacts (Vee's Rule); (iv) geological mapping, with stratigraphic columns and crosssections, pertinent to areas geologically simple and/or of average complexity; (v) drafting of a synthetic report in which is summarized the geological evolution of the mapped areas.</p>
Course contents	<p>Contents. Orienteering outlines and using the topographic maps on the field. The geologic compass: using for orienteering and to measure planar and linear elements: different types of geological compasses. Searching and</p>

	<p>characterization of rock exposures; lithotype, lithofacies and lithostratigraphic unit; location the outcrops in the map; recording data in the field notebook; samples collection for petrographic, paleontologic and other analyses; photographic report. Stratigraphic and structural principles. Methods of geological mapping and its instruments. Methods to carry out a geological map starting from field data and remarks.</p>
<b>Teaching methods</b>	<p>The program consists of frontal lessons, practical exercises in classrooms and field-trips.</p>
<b>Reccomended or required readings</b>	<p>Richard J. Lisle, Peter Brabham, John W. Barne-Basic, Geological Mapping, 5th Edition ISBN : 978-0-470-68634-8 Wiley editore e Corrado Venturini, Realizzare e leggere carte e sezioni geologiche, Dario Flaccovio Editore</p>
<b>Assessment methods</b>	<p>The exam consists of the following tests: a) orienteering test; b) report of the stratigraphical, sedimentological and structural characteristics observed during the field-trips; c) geological cross section; d) oral examination.</p>
<b>Further information</b>	<p>The exam consists of the following tests: a) orienteering test; b) report of the stratigraphical, sedimentological and structural characteristics observed during the field-trips; c) geological cross section; d) oral examination.</p>
<b>Sustainable development goals - Agenda 2030</b>	<p><a href="#">\$lbl legenda sviluppo sostenibile</a></p>