



ECOLOGY

Enrollment year	2016/2017
Academic year	2017/2018
Regulations	DM270
Academic discipline	BIO/07 (ECOLOGY)
Department	DEPARTMENT OF EARTH AND ENVIRONMENTAL SCIENCES
Course	NATURAL SCIENCES AND TECHNOLOGIES
Curriculum	PERCORSO COMUNE
Year of study	2°
Period	2nd semester (01/03/2018 - 13/06/2018)
ECTS	6
Lesson hours	48 lesson hours
Language	Italian
Activity type	ORAL TEST
Teacher	SCONFIETTI RENATO LUIGI (titolare) - 3 ECTS OCCHIPINTI ANNA CARMEN - 3 ECTS
Prerequisites	A basic knowledge of Botany, Zoology, Chemistry and Physics is strongly recommended
Learning outcomes	Main aim of the course is to provide students with the basic knowledge necessary to understand the complexity of the interactions that allow the functioning of the ecosystems.
Course contents	<ol style="list-style-type: none">1. Introduction to Ecology and definitions.2. Ecological factors: temperature, water, light, pressure, density and salinity. Organisms ecological tolerance and limiting factors. Macro and microclimates.3. Biogeochemical cycles of the main elements (water, Nitrogen, Phosphorus, Oxygen, Calcium and Magnesium). Eutrophication.4. Population properties and intraspecific regulation. Species interactions and adaptive strategies.

	<p>5.Community and ecosystem ecology. 6.Bioindicators of environmental quality</p>
Teaching methods	Frontal lessons and practical exercises in classroom
Reccomended or required readings	SMITH T.M. & SMITH R.L. Elementi di Ecologia 8 Edizione. Casa Editrice Pearson
Assessment methods	The oral exam aims to verify the capability of personal elaboration of the main concepts presented during the course and to correlate the different issues within an ecosystem approach.
Further information	Additional studying and working material will be directly provided by the teachers on UNIPV KIRO website (http://kiro2014.unipv.it.idcd/)
Sustainable development goals - Agenda 2030	\$bl legenda sviluppo sostenibile