Degree in (Bachelor/Master): Scienze della Natura

Course: Conservation and management of vegetation and landscape

Academic year: 2016/2017

Teaching: Prof. Carlo Ricotta

Department: Biologia Ambientale

Floor: 1 Room: 115 Phone: 0649912405
e-mail: carlo.ricotta@uniroma1.it

Target students (Year teaching): 1st year

Unit Level: specialist

Pre-requisites (Basic /Specialistic Knowledges): Basic knowledge in ecology, geomorphology and geology, plant systematics and geobotany

Credits (CFU): 12

Objectives of the course

Critical analysis of relationships between physical and biotic features for modeling ecosystems distribution from functional and structural perspectives. Knowledge of international and national framework for biodiversity conservation at different levels (plant species, plant communities, landscape).

Description of contents

Definition of landscape. Evolution of the concept of landscape.
Plant communities and vegetation. Vegetation distribution and control factors (bioclimatic, lithology, landform, land cover).


Vegetation classification and syntaxonomy. Main physiognomies of forests and grasslands in Italy, and their syntaxonomy (Vegetation Prodrome of Italy).


Vegetation dynamics. Vegetation series, zonal vegetation, and potential natural vegetation.

Dynamic and landscape plant sociology (sigmeta and geosigmeta).

Basics of landscape ecology: objectives and principles.


Skills to be developed and expected learning outcomes

Knowledge of methods for studying vegetation and for integrating vegetation description and analysis in landscape studies
Knowledge of strategies, policies and programs for biodiversity conservation and management of protected areas.

<table>
<thead>
<tr>
<th>CONTENUTO (12 CFU)</th>
<th>Classroom hours</th>
<th>Student hours</th>
<th>Total hours</th>
<th>Type of test</th>
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<tbody>
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<td>Vegetation science and landscape ecology</td>
<td>Lectures</td>
<td>40</td>
<td>85</td>
<td>125</td>
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<tr>
<td>Biodiversity conservation</td>
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<td>24</td>
<td>51</td>
<td>75</td>
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<td></td>
<td>Laboratory/Field trips</td>
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<td>52</td>
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<td>64+48</td>
<td>176</td>
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Final evaluation:

Oral exam

Suggested textbooks

Pignatti S. 1995. Ecologia vegetale. UTET.


Date, 04/05/2016