### 2nd term

<table>
<thead>
<tr>
<th>COURSE TITLE</th>
<th>Vineyard management, vine development and secondary metabolites in grape</th>
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<tbody>
<tr>
<td>Scientific area</td>
<td>Agricultural science</td>
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<td>Department of Agricultural, Forest and Food Sciences and Technologies</td>
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<td>Language used to teach</td>
<td>ENGLISH</td>
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#### Course summary

The class focuses on subjects configured in the learning context of "Production and quality of the grapes". The main topics cover the following aspects:

1. Climate and microclimate: general characterization.
2. Light, temperature and water: variability in the vineyard and influence on fruit and vine development, fruiting zone microclimate, grape ripening and secondary metabolite accumulation.
3. Vineyard management practices and canopy manipulations: influence on vine microclimate, grape ripening and secondary metabolite accumulation.
4. Visits to vineyards in different cultural and microclimatic conditions.

#### Learning objectives

Acquire theoretical knowledge concerning the influence of climatic and environmental variables and of cultivation choices on the grapevine development, on the grape ripening and on the secondary metabolite accumulation in grapes. Acquire abilities to consult independently and to critically evaluate the scientific literature, in order to deduce the technical and practical aspects potentially applicable in the vineyard management. Being able to choose the most suitable cultivation technique in order to reach the winery objectives, in term of grape quality and wine style, in the light of the latest scientific evidences.

#### Visiting Professor Profile

The candidate has to be an expert in research and teaching in the following issues "grapevine physiology, grape development and composition, and interaction of these with the cultivation practices and the environment (climate, soil)".

#### Contact person at the Department

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