

<b>Module title</b>	1.2 Biological cycle: environmental systems
<b>Workload (ECTS)</b>	3 ECTS
<b>Module coordinator</b>	<a href="#">Evelyn Coleman</a>
<b>Contributing lecturers</b>	<ul style="list-style-type: none"> <li>• <a href="#">Prof. Dr. Jan Grenz</a></li> <li>• <a href="#">Dr. Silvia Zingg</a></li> </ul>
<b>Entry requirements</b>	Builds on: <ul style="list-style-type: none"> <li>• 0.3 Bridging Economics and Management</li> </ul>
<b>Description</b>	<p>The natural environment provides us with a wide range of ecosystem services that are the base for our wellbeing. These include the provision of natural resources. A resource is termed renewable if it can be replenished naturally. A critical notion is the recovery rate: From the human perspective, resources are non-renewable when their rate of consumption exceeds the rate of replenishment.</p> <p>The understanding of the functioning of ecosystems, of the potentials and limitations of natural resource use, and the implications of management choices on natural resources and the ecosystem services provided are therefore at the centre of this course.</p>
<b>Learning outcomes and competences</b>	<p><b>Competences:</b></p> <p>Students</p> <ul style="list-style-type: none"> <li>• will be able to assess potential impacts of management choices for the sustainable use of a given resource</li> <li>• will be able to communicate and cooperate with specialists of different fields</li> </ul> <p><b>Outcome:</b></p> <p>Students</p> <ul style="list-style-type: none"> <li>• will be able to analyse the potential benefits and risks of resource management choices on ecosystem quality and resilience</li> <li>• will be able to analyse the effects of resource management choices on human wellbeing by applying the concept of ecosystem services in a given setting</li> </ul>
<b>Assessment of learning outcomes</b>	Provide a written journal reflecting on given questions and learnings
<b>Didactic approach</b>	<ul style="list-style-type: none"> <li>• individual and group exercises</li> <li>• excursions</li> <li>• case studies</li> <li>• learning videos</li> </ul>
<b>Project-based learning</b>	Focus/angle of the journal can relate to the individual project idea
<b>Links to other modules</b>	<ul style="list-style-type: none"> <li>• 1.1 Technological cycles</li> <li>• 1.5 Pathways to net zero GHG emissions in the food sector</li> <li>• 1.7 Circular use of materials</li> <li>• 3.2 Society and the environment</li> </ul>
<b>Bibliography</b>	Literature will be provided before the start of the module
<b>Language</b>	English
<b>Location</b>	Bern