

## 18 - 24 May 2025: SOUTH WESTPHALIA INTERNATIONAL SUSTAINABILITY WEEK

<b>Sustainability in agricultural land use and food systems</b>					
<b>Short name</b>	<b>Workload</b>	<b>Credit Points</b>	<b>Preparatory</b>	<b>Face-to-Face</b>	<b>Conclusion and final project work</b>
SALUS	90 h	3 ECTS	2 x 3 h (online) + 18 h self-study phase	International Sustainability Week	3 x 3 h (online) + 15 h self-study phase

<b>1</b>	<b>Group size</b>	<b>International students</b>	<b>German students</b>
		3 to 5 (online: up to 10)	4 to 6 (online: up to 12)

<b>2</b>	<p><b>Contents</b></p> <p>Agriculture and food systems play a key role in the transition towards a more sustainable and resilient society and industry worldwide. It is the responsibility of the whole sector to understand sustainability as an integral element of their activities and processes. Agricultural land use and food systems hold a huge potential to tackle several of the 17 SDGs.</p> <p>In this module, we will discuss</p> <ul style="list-style-type: none"> <li>▪ how agricultural land use and food systems contribute to the UN Sustainable Development Goals (SDGs) as well as pathways for improvements</li> <li>▪ in-depth view of selected issues in agriculture (plant production and soil, livestock, ag engineering, socio-economics) and food systems more holistically</li> <li>▪ methods on how to assess the sustainability of agricultural businesses (SAFA, SMART)</li> <li>▪ innovations in agricultural land use and food systems aiming for higher levels of sustainability</li> </ul> <p>The module thereby contributes especially to the UN Sustainable Development Goals “responsible consumption and production” (SDG 12), “zero hunger” (SDG 2), and “life on land” (SDG 15).</p>
<b>3</b>	<p><b>Learning outcomes</b></p> <ul style="list-style-type: none"> <li>▪ Awareness on how agriculture and food systems can contribute to a more sustainable transition in society and industry and tackle SDGs</li> <li>▪ Better knowledge of agricultural processes and food system building blocks</li> <li>▪ Methodological skills on how to assess the sustainability of agricultural businesses</li> <li>▪ Improvement of the ability to work in international teams</li> </ul>
<b>4</b>	<p><b>Teaching and learning methods</b></p> <ul style="list-style-type: none"> <li>▪ Inverted classroom setting: Preparation via online teaching with short lectures and self-study phases (independent reading of assigned course material) before and after the face-to-face phase (International Sustainability Week)</li> <li>▪ Lectures face-to-face during the International Sustainability Week</li> <li>▪ Sustainability Assessment tool(s)</li> <li>▪ Laboratory work, field trip</li> </ul>
<b>5</b>	<p><b>Prerequisites</b></p> <ul style="list-style-type: none"> <li>▪ Basic knowledge of agriculture and/or food systems</li> </ul>
<b>6</b>	<p><b>Requirements for the awarding of credits</b></p> <ul style="list-style-type: none"> <li>▪ On-time submission of preparatory work: independent reading of assigned course material based on questions; short 10-minute presentation of findings based on literature</li> <li>▪ Active participation in online courses and the International Sustainability Week</li> </ul>

	<ul style="list-style-type: none"> <li>▪ 8-10 page reflection paper on a selected topic from the course to be submitted on time</li> </ul>
<b>7</b>	<b>Module responsible / Lecturer</b> <ul style="list-style-type: none"> <li>▪ Professors and scientific staff Department of Agriculture, Soest</li> </ul>
<b>8</b>	<b>Literature</b> <ul style="list-style-type: none"> <li>▪ Lichtfouse et al., 2009: Sustainable Agriculture. Springer. <a href="https://doi.org/10.1007/978-90-481-2666-8">https://doi.org/10.1007/978-90-481-2666-8</a>.</li> <li>▪ Further sources depending on the previous knowledge of the participants</li> </ul>
<b>9</b>	Additional information (to complete: Link to the associated a Moodle-course)