

<b>Georg-August-Universität Göttingen</b> <b>Modul M.WIWI-BWL.0031 Sustainable Production</b>	6 Credits 2 SWS
<b>Learning objectives/skills:</b> The students <ul style="list-style-type: none"> <li>• know the basics of corporate and cross-corporate material and energy flow management</li> <li>• know the various dimensions of sustainability and are able to classify them into the corporate setting</li> <li>• know the elements of a life cycle analysis according to DIN EN ISO 14044 and are able to evaluate and discuss the results of such an analysis</li> <li>• are able to apply the basics of capital budgeting in a sustainable manner</li> <li>• are able to apply multi-criteria decision support methods</li> <li>• are able to apply their prior knowledge of business economics environmentally oriented</li> </ul>	<b>Workload:</b> Attendance: 22 hours Self-study: 158 hours
<b>Content:</b> <p>Topics of the lecture are the modelling and optimization of material and energy flows within companies and within industrial networks. Economic- and ecological efficient configuration of business actions aims to avoid, reduce or recycle residues and decommissioned products and the disposal of wastes from an operational point of view. Therefore, various methods of operations research will be applied. Additional topics will be corporate social responsibility and an introduction to industrial ecology and eco-industry parks.</p>	
<b>Course:</b> Lecture Sustainable Production (Lecture)	2 SWS
<b>Examination:</b> Written exam (90 Minutes)	
<b>Examination requirements:</b> In the written exam students prove skills in the following areas: <ul style="list-style-type: none"> <li>• Basics in eco-controlling</li> </ul>	

<ul style="list-style-type: none"> <li>• Life Cycle Assessment</li> <li>• Environmental management</li> <li>• Resource management</li> <li>• Application of multi-criteria decision support methods</li> <li>• Planning and controlling of corporate material and energy flows</li> <li>• Sustainability in business and cost accounting models</li> </ul>		
<b>Access requirements:</b> None	<b>Recommended prior knowledge:</b>	
<b>Language:</b> Lecture in English, Literature in English	<b>Module responsibility:</b> Prof. Dr. Jutta Geldermann	
<b>Lecture frequency:</b>	<b>Duration:</b> half-term (2 months)	
<b>Repeatability:</b> Twice	<b>Recommended term:</b> 1-3	
<b>Maximum amount of students:</b> Not limited		