













## Core Competences module (CC)

### Core Competences in Natural Sciences (CC Nat) 15 CP

No.: class title	Lecturer / subject area	Format	CP	Semester	Frequency	Notes concerning the registration of the class for the specific module
62246: Sustainability in Practice ●●●●	<b>P. Holm/MSE,</b> F. Krysiak/ Env Econ - all MSD	C	3	Fall 23	Irregular	The TC MSD strongly recommends to accredit this course for the FASR module. Special entry requirements & course application.
49077: Global Change Resources ●	M. Andres MSD with TA	L + PC	3	Fall 23	Every fall	Mandatory.
50264: Global Change Ecology ●●	S. Abel MSE-MSD	L + PC	3	Spring 23	Every spring	Mandatory.
41821: Ecological Sustainability Aspects of Climate Change ●●	D. Schindler MSD with TA	L + PC	3	Fall 23	Irregular	For choice.
25635: Transformation of Energy Systems to Renewable Energy Flows...●●●	R. Rechsteiner Geosciences	L + PC	2	Fall 23	Every 2nd fall	For choice.
23839: Introduction to Research Projects of Environmental Geosciences and Biogeochemistry (new title!)	<b>Ch. Alewell,</b> M. Lehmann Geosciences	L + PC	3	Spring 23	Every spring	For choice. Takes place as a bloc course. Former title: Pedosphere and Hydrosphere - Biogeochemistry and Modelling of Element and Sediment Cycling
24172: Marine Biological Considerations at the Strait of Gibraltar ●●	<b>P. Holm,</b> S. Abel, MSD-MSE	FT	3	Spring 23	Every spring	For choice. Those who have attended the field trip in a former semester and have earned CP cannot register again.
24129: From Anthropogenic Landscapes to Wilderness Management ●	<b>Ch. Alewell,</b> A. Lang Geosciences	FT	2	Fall 22	Irregular	For choice. Field trip takes place as a bloc course according to announcement in the detailed course directory.
12127: From Anthropogenic Landscapes to Wilderness Management ●		P	3	Fall 22	Irregular	For choice. Only in combination with 24129.
60310: Introduction to organic farming systems ●●	<b>P. Mäder</b> et al. Botany with TA	L + PC	3	Spring 23	Irregular	For choice.

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34505: The Rise of International Environmental Risks: Corporate and Government Strategies (new title) ●●●●	J. Wargo/Econ	L	3	Fall 23 (Summer School)	Every fall
43030: Public Opinion and Science Communication ●●	A. Kachi/Econ	L	3	Fall 23	Every fall
62643: Consumer Behavior: Marketplace Applications	J. Laran/Econ	C	3	Fall 23	Every fall
62650: Behavioral Science	M. Brendl/Econ	L	3	Fall 23	Every fall
56949: The Economics of Climate Change ●●	R. Lordan-Perret/Econ	Coll	3	not in fall 23	Every fall
53713: Environmental and Energy Economics ●●	F. Krysiak EnvEcon-MSD	S	6	Fall 23	Every fall
65937: Advanced Microeconomics	G. Nöldeke Econ	L	6	Fall 23	Every fall
68986 Vorlesung: Sustainable Finance	Y. Heo/Econ	L	3	Fall 23	First time
10625: Advanced International Trade and Business	R. Weder Econ	L	6	Spring 23	Every spring
17691: International Trade, Resources and the Environment ●	M. S. Taylor Econ	L	3	Spring 23	Every spring
43498: Psychological Theory in Consumer Behavior	M. Brendl/Econ	Coll	6	Spring 23	Every spring
16036: Microeconometrics and Statistical Learning (new title)	Ch. Kleiber Econ	L	3	Spring 23	Every spring
50877: Economics of Global Health	G. Fink/Econ	L	3	Spring 23	Every spring
62655: Energy Economics ●	H. Weigt/Econ	L	3	Spring 23	Every spring
60335: Introduction to Corporate Responsibility ●	G. von Schnurbein/Econ	L	3	Spring 23	Every spring
65943: Advanced Macroeconomics	S. Lein/Econ	L	6	Spring 23	First time
60336: Population & Economic Growth	R. Stelter/Econ	L	3	Spring 23	Every spring

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## Preparation Master's Thesis in Social Sciences (PM Soc) 15 CP

No.: class title	Lecturer / subject area	Format	CP	Semester	Frequency	Notes concerning the registration of the class for the specific module
49078: Research Design Master's Thesis	P. Holm/MSE, - I. Schubert, SRG, <b>F. Krysiak</b> / Env Econ - all MSD	C	3	Fall 23	Every semester	Mandatory.
57245: Sustainability Science Research (social dimension)	P. Burger SRG-MSD	Coll	1	Fall 23	Every semester	Mandatory.
50267: Current Topics in Social Science Based on Sustainability Research	A. Sohre SRG-MSD	S	3	Spring 23	Every spring	Mandatory.
Methods: 46737: Experimental research methods in social sciences	I. Schubert SRG-MSD	S	3	Fall 23	Irregular	For this module students have to attend a method course of min. 3 CP. The choice is to be done out of this list.
Methods: 31938: Qualitative Data Analysis in African Studies	E. Macamo Afr. Studies	S	3	Fall 23	Every fall	
Methods: 33426: Quantitative Data Analysis in African Studies	E. Macamo Afr. Studies	S	3	Spring 23	Every spring	
Methods: 48555: Research Methods in Social and Political Science (new title)	D. Höhmann Politic. Sciences	S	3	Fall 23	Every fall	
Methods: 49855: Research Methods in Social and Political Science (new title)	D. Höhmann Politic. Sciences	Tut	2	Fall 23	Every fall	
Methods: 63537: Living Labs and Participative Research for Sustainability Transitions ●	A. Sohre I. Schubert SRG-MSD	S	3	Fall 23	Irregular	
Seminar Paper			5	On agreement.		Mandatory. Details regarding modalities see fact sheet master's graduation.

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## Focal Areas in Sustainability Research module (FASR) 12 CP

**List of recommended courses: subject to modifications. For more offers see [online detailed course directory](#)**

There is no notification of courses for this module in the detailed course directory (published each semester). The students make their choice by themselves. The list below serves as a suggestion for the “FASR” module and covers one part of possible classes. We also recommend to review the course directories of other master’s programs for lectures related to sustainable development (e.g. Changing Societies, Biology, Sociology, Economics, etc).

When choosing other classes, two criteria have to be considered:

1. The class has to be offered on master level module by the program in charge (see details in the course directory).
2. The class has to have a clear connection to sustainable development.

If you come across a course which is not listed and you would like to know whether it will be recognized or not you can send an email to [coordination-msd@unibas.ch](mailto:coordination-msd@unibas.ch). Please list the course with the entire title and add the link to relevant entry of the detailed course directory, otherwise we cannot verify the potential recognition.

**The courses have to be fixed in a learning agreement.** Fact sheet and template are available on the website MSD/see downloads MSD 2017: <https://www.msd.unibas.ch/en/services/downloads/msd-2017/>

**MAKE SURE** you fulfill the **participation requirements** for the courses of your choice. Also, consider the details in the online course directory regarding **course application** and **enrollment**.

### Natural Sciences

*NOTE: make sure, you fulfill any participation criteria. Especially, if you like to take a class in natural sciences and you have chosen the focus area in social sciences or in economics, you must have completed the “Complementary Knowledge in Natural Sciences” module (at least 8 out of 12 CP).*

No.: class title	Lecturer	Format	CP	Frequency	Notes concerning the registration of the class for the specific module
50264: Global Change Ecology ●●	S. Abel	L + PC	3	Every spring	Offered by the MSD. Special course inscriptions and entry requirements. Students with focus area in natural sciences can't transfer the credits to the FASR module as these are two a mandatory classes for them (lectures 50265 & 49077).
49077: Global Change Resources ●	M. Andres	L + PC	3	Every fall	

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41828: Perspectives of Natural Sciences on Sustainability ●●	P. Holm	L + PC	3	Every fall	Offered by the MSD/TQNE: only for students without academic background in natural sciences and if they don't have to attend it for the "Complementary Knowledge in Natural Science" module.
41821: Ecological Sustainability Aspects of Climate Change ●●	D. Schindler	L + PC	3	Every fall	Offered by the MSD. Special course inscription and entry requirements.
62246: Sustainability in Practice ●●●●	<b>P. Holm/MSE</b> , F. Krysiak/ Env Econ - all MSD	C	3	Fall	Irregular.
41280: Tree and Forest Ecology ●	<b>G. Hoch</b> M. Arend	L	2	Every fall	
23138: Sustainable Plant Systems ●●	K. Schläppi	L	2	Every fall	
22696: Measurements and Policy Interactions in Climate Change and Air Pollution ●●	S. Reimann	L	3	Every fall	
11718: Current Ecological and Health Issues in Africa	G. Fink, <b>J. Utzinger</b>	S	2	Every fall	
34578: Invasionsbiologie ●	H.-P. Rusterholz	L	2	Every fall	
41280: Tree and Forest Ecology ●	G. Hoch et al.	L	2	Every fall	
24129: From Anthropogenic Landscapes to Wilderness Management (field trip; new title) ●	<b>Ch. Alewell</b> , A. Lang Geosciences	FT	2	Every 2nd fall sem.	Only in combination with 24129.
12127: From Anthropogenic Landscapes to Wilderness Management ●	<b>C. Alewell</b> , A. Lang	P	3	Every 2nd fall sem.	
23837: Soil System Sciences: Carbon Dynamics and Global Change ●	J. Leifeld	L + PC	3	Every 3. semester	
39717: Environmental Management: Flood Management in Switzerland	V. Röthlisberger	PC	2	Irregular	
50260: Ecology and Evolution ●	J. Beck	L	1	Every spring	Offered by the MSD.
40076: Technical Basis of Generation, Distribution and Storage of Energy ●	R. Lordan-Perret	L + PC	3	Every spring	Students with focus area in social sciences and economics can't transfer the credits to the FASR module as the three

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36792: Terrestrial Ecosystem Ecology and Sustainable Landuse ●●	A. Kahmen	L	2	NOT in spring 23	courses are mandatory for the “Complementary Knowledge in Natural Sciences” module.
24172: Marine Biological Considerations at the Strait of Gibraltar ●	<b>P. Holm</b> , S. Abel	FT	3	Every spring	Offered by the MSD.
23827: Soil System Sciences: Carbon Dynamics and Global Change ●	J. Leifeld	L + PC	3	Every 3. semester	
33587: Praktische Aspekte der Bodenbiologie in der Landwirtschaft ●●	P. Mäder	L + PC	3	Every spring	
33155: Marine Biogeochemistry and Biology in Elba, Italy ●	<b>M. Lehmann</b> et al.	FT	4	Every 2nd spring semester	Special registration procedure; see online course directory
60310: Introduction to organic farming systems ●●	<b>P. Mäder et. al</b>	L + PC	3	irregular	Co-offered by the MSD.
23832: Oceanography: Regional Oceanography & Marine Ecosystem ●	M. Lehmann	L + PC	2	Every spring	
27336: Pflanzenschutz und nachhaltiger Pflanzenbau ●●	<b>D. Klauser</b> , P. Flury	L	1	Every spring	
20045: Alpine Plant Ecology ●	E. Hiltbrunner et al.	FT	3	Every spring	
63591: The Interplay of Agriculture, Environmental and Energy Policy ●●●	<b>R. Delzeit</b> R. Arguey-	L	3	Every fall	Formerly during spring semester
14630: Biological and Integrated Pest Management ●●	R. Peveling	L + PC	2	Every spring	
48662: Climate Change and Health	G. Cissé	L + PC	1	Every spring	

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## Social Sciences

*NOTE: make sure, you fulfill any participation criteria. Especially, if you like to take a class in social sciences and you have chosen the focus area in natural sciences or in economics, you must have completed the “Complementary Knowledge in Social Sciences” module (at least 8 out of 12 CP)*

No.: class title	Lecturer	Format	CP	Frequency	Remarks (for details see online course directory)
41829: Perspectives of Social Sciences on Sustainability ●●	B. Bornemann	L + PC	3	Every fall	Offered by the MSD/TQNE: only for students without academic background in social sciences and if they don't have to attend it for the “Complementary Knowledge in Natural Science” module.
62246: Sustainability in Practice ●●●●	<b>P. Holm/MSE,</b> F. Krysiak/ Env Econ - all MSD	C	3	Fall	Irregular.
41822: Governance of Energy Transitions ●●	A. Sohre	S	3	Irregular	
43667: Changing Individual Energy Behaviour – Approaches & Strategies ●●	I. Schubert	S	3	Every spring	
17403: Governance, Sustainable Development and Democracy ●●	B. Bornemann MSD-SRG	S	3	Every spring	Offered by the MSD. Special course inscription. Students with focus area in natural sciences and economics can't transfer the credits to the FASR module.
50267: Current Topics in Social Science Based Sustainability Research	A. Sohre	S	3	Every spring	Offered by the MSD. Special course inscription. Students with focus area in social sciences can't transfer the credits to the FASR module.
68999: Basel Sustainability Forum: Transforming Food Production and Consumption	M. Bergman et al.	L	2	Fall 23	Once. M. Bergman offers similar classes almost every semester.
58578: The Political Consequences of Economic Inequality ●	D. Traber	S	3	Irregular	
53524: Climate Change and Religion	J. Köhrsen	V	3	Irregular	
67896: Conflicts and Controversies in the Water-Energy-Food Nexus ●●	O. Ejderyan	S	3	Spring 23	Once
67882: Positive Energy Districts: A New Way to Realize a just Energy Transition? ●●	<b>A. Hearn,</b> D. Mihailva,	S	3	Spring 23	Once.
69010: Social Research on Sustainability: Approaches, Methods, and Applications	M. Bergman	PC	3	Fall 23	Once

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66155: Innovations for Sustainability	M. Simoens	S	3	Fall 23	Once
57243: Quality of Life and Sustainability: Theoretical and Empirical Approaches	M. Christen, A. Hearn	S	3	Fall 23	Once
68995: The Sustainabilization of the State: Theoretical Perspectives and Empirical Evidence across Countries ●	B. Bornemann	S	3	Fall 23	Once
62600: The Case Study Method	M. Bergman et al.	C	3	once	

## Economics:

*NOTE: make sure, you fulfill any participation criteria. Especially, if you like to take a class in economics and you have chosen the focus area in natural sciences or in social sciences, then you must have completed the “Complementary Knowledge in Economics” module (at least 8 out of 12 CP).*

No.: class title	Lecturer	Format	CP	Frequency	Remarks (for details see online course directory)
14255: Environmental Economics ●●	F. Krysiak	L	3	Every spring	
43030: Public Opinion and Science ●●	A. Kachi	L	3	Every fall	
29002: Electricity Markets ●	H. Weigt	L	3	Every fall	
31954: International Economics	T. Erhardt, C. Hefeker	S	6	Every fall	
34505: The Rise of International Environmental Risks: Corporate and Government Strategies (new title) ●●●●	J. Wargo	L	3	Every fall	Summer school (August). For details see online course directory.
10639: Consumer Behaviour: Theoretical Foundations	M. Brendl	Coll	3	Every fall	
56949: The Economics of Climate Change ●●	R. Lordan-Perret	Coll	3	Every fall	
62246: Sustainability in Practice ●●●●	P. Holm/MSE, F. Krysiak/ Env Econ - all MSD	C	3	Fall	Irregular.
17691: International Trade, Resources and the Environment ●	M. Scott Taylor	L	3	Every spring	

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43700: Perspectives of Economics on Sustainability ●	V. Calenbuhr	L + PC	3	Every spring	Offered by the MSD/program "Pathways to Sustainability" (TQNE): only for students without academic background in economics.
50877: Economics of Global Health	G. Fink	L	3	Every spring	
53713: Environmental and Energy Economics ●●	F. Krysiak	S	6	Every fall	NOTE: Special participation requirements and application process according to information in the detailed course directory.
60335: Introduction to Corporate Responsibility ●	G. von Schnurbein	L	3	Every spring	

### Other Faculties/interdisciplinary courses

*NOTE: make sure, you fulfill any participation criteria. For details see detailed course directory.*

No.: class title	Lecturer	Format	CP	Frequency	Remarks (for details see online course directory)
43701: Interdisciplinary Approach to Sustainability ●	J. Godemann	S	3	Every spring	Offered by the MSD/program "Pathways to Sustainability" (TQNE): Special course application.
20580: Umweltrecht	D. Turnherr Keller	L	6	Every spring	
69107: Erwachsenenbildung im internationalen Vergleich	A. Grotlüschen	S	2	irregular	
58446: Sustainable Energy Physics	E. Meyer et al.	L+P	4	irregular	
68949: Psychologie der Nachhaltigkeit und Verhaltensänderung	U. Hahnel	Coll.	1	once	In fall semester 23

### Master's Thesis

For modalities, the choice of the topic and the choice of the reviewer(s) please check the fact sheet regarding the Master's Thesis MSD 2017, see our website/downloads MSD 2017: <https://www.msd.unibas.ch/en/services/downloads/msd-2017/>

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