

Sustainable Development (SD) modules

SD3100 Methodologies for Sustainable Development			
SCOTCAT Credits:	30	SCQF Level 9	Semester: 2
Academic year:	2017/8		
Planned timetable:	To be arranged.		
<p>This module prepares students to undertake final year dissertation research. This module builds on the research methods explored in other SD honours modules. Students will learn about how to design and execute a research project, how to situate research questions in the broader agenda of Sustainable Development and within appropriate interdisciplinary literatures. A group research project provides the opportunity to apply this learning in a fieldwork setting. Students taking this module will understand the wider epistemological debates surrounding interdisciplinary, know how to define problems and form tractable research questions as well as how to design rigorous methodologies to answer these questions. By the end of the module each student will have developed a research proposal suitable for a final year dissertation project.</p>			
Programme module type:	Compulsory for Sustainable Development (BSc and MA)		
Pre-requisite(s):	SD2001 and SD2002 and at least 30 credits of SD at 3000 or 4000 level.		
Anti-requisite(s):	SG3201, SG3202, SG3203, SG3204, GG3201.		
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar (x 7 weeks); 1 x 3-hour practical (x 3 weeks); residential field work (x 3 days)		
	Scheduled learning: 57 hours	Guided independent study: 252 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Coursework = 100%		
Re-assessment pattern:	Coursework = 100%		
Module coordinator:	Dr R White		
Module teaching staff:	Team taught		

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SD3110 Environmental Economics				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	10.00 am - 1.00 pm Thu			
This module introduces students to the contributions that environmental economics can make to helping us understand and manage a wide range of environmental problems. We also study the insights which economics provides on the relationship between economic growth and environmental quality, and the measurement of sustainability. No prior knowledge of economics is presumed, and a course textbook is available which is co-written by one of the course lecturers.				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	usually SD2002	Anti-requisite(s):	SD3224	
Learning and teaching methods and delivery:	Weekly contact: 2-hour lectures (x 10 weeks), 2-hour practicals (x 4 weeks)			
	Scheduled learning: 28 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Dr E McLaughlin, Prof N Hanley, Dr T Borger			

SD3111 Home & Energy Geographies				
SCOTCAT Credits:	30	SCQF Level 9	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	10.00 am - 1.00 pm Thu			
An abundant and uninterrupted supply of energy underpins all of our everyday activities; it is fundamental to the quality of our lives. This module will explore the history of our energy use and how it is implicated in modern life. It will do this by exploring why we need energy, the nature of energy demand (e.g. we use more energy than ever before, and our energy demand is predicted to double by the year 2050), and the interconnectedness of energy and sustainability. This module will predominantly focus on domestic energy use (and therefore discuss notions of home, dwelling and domesticity), but will also link to international debates about energy and sustainability. Throughout the module, theories of social and technological change will be explored as a means to understanding transitions in energy demand.				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	(SD2001 and SD2002) OR (GG2011 and GG2012)	Anti-requisite(s):	SD3221	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 10 weeks)			
	Scheduled learning: 30 hours		Guided independent study: 278 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 60%, Practical Examinations = 0%, Coursework = 40%			
	As used by St Andrews: 2-hour Written Examination = 60%, Coursework = 40%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr L Reid			
Module teaching staff:	Dr L Reid			

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SD4110 Transitioning to sustainability: community, nature and governance				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	2
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	To be arranged.			
<p>A transition towards sustainability will be multifaceted, requiring novel forms of governance and acknowledging the roles and perspectives of different actors. State intervention alone will not suffice; local and grassroots initiatives and movements are critical. In this module we will explore how communities of place, interest, practice and value can contribute to multi-level governance for sustainability, but can also question dominant assumptions manifested at national or international levels. We will examine how community interacts with other sectors, explore learning, adaptation and resilience in communities and pursue the trend for alternative economies. We will draw on examples from the global north and south. In addition, we will critique the contested concept of community itself, acknowledging issues relating to heterogeneity, representation and relationality.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	SD2001 and SD2002	Anti-requisite(s):	SD3225	
Learning and teaching methods and delivery:	Weekly contact: 1 hour lecture (x11 weeks), 1 hour seminar (x11 weeks), 3 hour practical class (x2 weeks), 4hr field-trip (x6 weeks)			
	Scheduled learning: 57 hours		Guided independent study: 244 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 40%, Practical Examinations = 0%, Coursework = 60%			
	As used by St Andrews: 2-hour Written Examination = 40%, Coursework = 60%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr R White			
Module teaching staff:	Dr R White			

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SD4111 Governance for Sustainability			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 1
Academic year:	2018/9		
Availability restrictions:	Offered on a two year cycle		
Planned timetable:	10.00 am - 1.00 pm Fri		
<p>Many of the important sustainability issues we face as a society are complex and multi-faceted. Building more sustainable solutions is likely to require collaboration between different actors at multiple scales. The effectiveness of institutional arrangements has become a key question within the sustainability paradigm. What principles of governance can we bring to bear in the design and reform of governance systems which will lead to more sustainable outcomes? This module will explore insights from planning, environmental geography, political science and other social science disciplines. Students will acquire practical knowledge of governance arrangements for sustainability, as well as critical skills to assess notions of 'Good' Governance. Students will also develop transferrable research skills for policy and institutional analysis.</p>			
Programme module type:	Optional for Sustainable Development		
Pre-requisite(s):	SD2001 and SD2002	Anti-requisite(s):	SD3222
Learning and teaching methods and delivery:	Weekly contact: 1 x 2-hour lectures (x 10 weeks), 2 x 2-hour seminars, 4 x 2-hour practicals		
	Scheduled learning: 35 hours	Guided independent study: 265 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%		
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework (presentation - 20%, report - 30%) = 50%		
Re-assessment pattern:	2-hour Written Examination = 100%		
Module coordinator:	Dr T Stojanovic		
Module teaching staff:	Dr T Stojanovic		

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SD4112 Global Energy Politics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2017/8			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	10.00 am - 1.00 pm Fri			
<p>This module looks into the global context of energy challenges facing society today and tomorrow. It takes a look at each major type of energy system. The focus is on (1) fossil fuels, (2) low carbon energy sources and (3) modern Renewables and (4) energy consumption. You will reflect on how we can respond to the global energy quadrilemma - reducing carbon, affordable energy, energy security and energy justice. Students will understand how to assess the major political questions involved in each of these energy systems. You will also gain an understanding of the statistical realities that need to be overcome. The module will provide you with a detailed and thorough investigation of how sustainable energy systems can and should be constructed, as well as appreciating the political obstacles facing a sustainable pathway. The module will also develop methodological skills to construct and research energy scenarios for a NGO, business or government department.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	SD2001 and SD2002	Anti-requisite(s):	SD3222	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 11 weeks), 1 seminar (x 11 weeks), 1 workshop (x 4 weeks)			
	Scheduled learning: 41 hours		Guided independent study: 264 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 20%, Coursework = 30%			
	As used by St Andrews: 3-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	3-hour Written Examination = 100%			
Module coordinator:	Dr D McCauley			
Module teaching staff:	Dr D McCauley			

SD4113 Environment and Development Economics				
SCOTCAT Credits:	30	SCQF Level 10	Semester:	1
Academic year:	2018/9			
Availability restrictions:	Offered on a two year cycle			
Planned timetable:	To be arranged.			
<p>The world has changed dramatically since the early 1700s, before the onset of modern economic growth and the industrial revolution. However, despite rapid advancements, the world today is divided between high-income, middle-income, and low-income countries. This module takes a broad perspective on economic development and how economic development interacts with the environment. The module introduces key concepts in economic development and natural resource management.</p>				
Programme module type:	Optional for Sustainable Development			
Pre-requisite(s):	passes in SD2001 and SD2002	Anti-requisite(s):	SD3224, SD5101	
Learning and teaching methods and delivery:	Weekly contact: 2 lectures (x 10 weeks), 2 practicals (x 4 weeks)			
	Scheduled learning: 28 hours		Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 50%, Practical Examinations = 0%, Coursework = 50%			
	As used by St Andrews: 2-hour Written Examination = 50%, Coursework = 50%			
Re-assessment pattern:	2-hour Written Examination = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Dr E McLaughlin, Prof N Hanley, Dr T Borger			

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SD4297 Dissertation in Sustainable Development			
SCOTCAT Credits:	30	SCQF Level 10	Semester: 2
Academic year:	2017/8		
Availability restrictions:	Available only to Sustainable Development Honours students.		
Planned timetable:	To be arranged.		
<p>This dissertation builds 3000-level research methods training and will demonstrate the importance of an interdisciplinary approach to key questions of sustainable development. This independent research will involve the review of relevant literatures, the application of rigorous methodologies, the collection of data as well as the appropriate analysis and interpretation of data. A final dissertation of not more than 10,000 words will comprise the primary mode of assessment but students will also participate in the Senior Honours Research Conference at which all students will present their work to members of the school. To support this learning students will be supervised by a member of staff and collective workshops on relevant skills such as oral presentation skills, approaches to scientific writing, and presenting data will also be offered. Students will also be invited to attend a dissertation away day at the beginning of the semester.</p>			
Programme module type:	Compulsory for Single Sustainable Development (BSc and MA Hons) Compulsory for Joint Honours Sustainable Development if dissertation or research project is not taken in the partner subject Optional for Joint Honours Sustainable Development if partner subject involves a dissertation or research project		
Pre-requisite(s):	SD3100 or SG3201 or SG3202 or SG3203 or SG3204	Anti-requisite(s):	SD4299
Learning and teaching methods and delivery:	Weekly contact: 1 away day (8 hours), 2-hour skills workshops (x4), up to 10 hours individual supervision, by arrangement with supervisor, student research conference (4 hours)		
	Scheduled learning: 30 hours	Guided independent study: 270 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 5%, Coursework = 95%		
	As used by St Andrews: Coursework (10,000-word dissertation = 95%, oral or poster presentation a student research conference = 5%) = 100%		
Re-assessment pattern:	10,000-word Dissertation = 100%		
Module coordinator:	Dr R White		
Module teaching staff:	Team taught		

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SD4299 Dissertation in Sustainable Development			
SCOTCAT Credits:	60	SCQF Level 10	Semester: Whole Year
Academic year:	2017/8		
Availability restrictions:	Core - Available only to students who intend an Honours Degree in Sustainable Development.		
Planned timetable:	To be arranged.		
<p>This module is largely based upon independent study. Students select a research question in Sustainable Development, mount a research programme to investigate the topic, and write a dissertation on the work. The topic is selected during the second semester of the junior honours year; data can be collected during the following vacation with data analysis and the writing of the dissertation taking place over both semesters of Senior Honours. Each student is supervised by a member of the teaching staff from an appropriate disciplinary area who will ensure that the topic chosen is viable and advise students on data collection and analysis. Students attend an introductory session at the start of semester 2, followed by a series of 'workshop' sessions covering aspects of research design and process during the semester. Individual tutorials are decided between the individual student and their supervisors. The dissertation will normally be based in the disciplinary area of the student's partner subject, but in recognition of the interdisciplinary nature of the field of study of sustainable development and of the SD Programme, the dissertation will itself be interdisciplinary to some extent. An important component of the dissertation is the annual Senior Honours Research Conference at which all students present their work to members of the school and to Junior Honours students as an oral presentation.</p>			
Programme module type:	Compulsory for Sustainable Development		
Pre-requisite(s):	One of SG3201 - SG3204	Anti-requisite(s):	SD4002, SD4297
Learning and teaching methods and delivery:	Weekly contact: Up to 8 hours of guided study per student over the semester (one-to-one supervision, by arrangement with supervisor), plus a 1 day (8-hour) conference		
	Scheduled learning: 16 hours	Guided independent study: 584 hours	
Assessment pattern:	As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%		
	As used by St Andrews: Dissertation and Conference Paper = 100%		
Re-assessment pattern:	Oral Examination = 100%		
Module coordinator:	Dr R White		
Module teaching staff:	Team taught		