

Masters in Sustainable Development and Environmental Economics

Programme Requirements

Sustainable Development and Environmental Economics - MSc	
	SD5001 (30 credits) and SD5004 (15 credits) and SD5005 (15 credits) and SD5103 (15 credits) and SD5104 (15 credits) and SD5024 (15 credits) and 15 credits from Module List: GG5227, SS5101 - SS5104, MO5223, MN5311, MN5513, MN5821, MD5201 - MD5206 and SD5098 (60 credits)

Partner subjects: In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Geography, History, Management and Medicine (details below).

Compulsory modules:

SD5001 Interrogating Sustainable Development				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	1
Planned timetable:	2.00 pm - 5.00 pm Tue			
<p>This module provides an introduction to sustainable development. First, it introduces the history and application of the concept of sustainable development. Second, there is a series of disciplinary-based lectures that describe the nature and functioning of the social, political, economic and physical, and systems that combine to create the world that we can observe around us. Specific material will also be presented that links these various aspects together and explores their interactions.</p> <p>In addition, this module will have a short induction component to it during the pre-sessional week of term which has a three-fold purpose: (i) to introduce students to the shape of the degree program and St Andrews, (ii) allow students to explore their existing skill base and identify what skills require further work and (iii) provide a context (in the form of a field trip) within which to start an investigation of what inter-disciplinarity entails. This will entail two one-day seminars.</p>				
Programme module type:	Compulsory for the Postgraduate Diploma and MSc Sustainable Development, MSc Sustainable Development and Energy and MSc Sustainable Development and Environmental Economics			
Required for:	SD5098			
Learning and teaching methods and delivery:	Weekly contact: 1 x 3-hour seminar			
Assessment pattern:	2-hour Written Examination = 50%, Coursework = 50%			
Module coordinator:	Dr D McCauley			

SD5004 Introduction to Global Environmental Change				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	TBC			
This module provides students of sustainable development with the scientific background to past, present and future climate change and its consequences, globally. Topics covered include the functioning of the global climate system on timescales up to multi-millennial, and the response of ice-sheets, sea-level, ocean circulation, ecosystems and carbon-cycling, soil erosion, biodiversity and conservation.				
Programme module type:	Compulsory for MSc in Sustainable Development, Sustainable Development and Energy, Sustainable Development and Environmental Economics			
Required for:	SD5098			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture (x 10 weeks), 1 seminar (x 10 weeks)			
Assessment pattern:	Coursework (including presentation =20%)= 100%			
Module coordinator:	Prof D Benn			
Module teaching staff:	Team taught			

SD5005 Master Class in Sustainable Development				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	2.00 pm - 4.00 pm Tue			
This module has three elements: (i) a series of presentations by academic experts in their chosen field of sustainable development along with structured reflection and further exploration of these various topic areas, (ii) the development and presentation (in groups) of case studies of sustainable development problems and/or exemplars of excellence in sustainable development, and (iii) the completion of two master class review essays in specialised areas of sustainable development. This module is designed to provide you with an ability to reflect critically on the potential and limitations of sustainable development.				
Programme module type:	Compulsory for MSc in Sustainable Development, Sustainable Development and Energy and Sustainable Development and Environmental Economics			
Pre-requisite(s):	SD5001			
Anti-requisite(s):	SD5003	Required for:	SD5098	
Learning and teaching methods and delivery:	Weekly contact: 1 lecture, 1 tutorial (x 10 weeks)			
Assessment pattern:	50-minute group presentation = 20%, Coursework = 80%			
Module coordinator:	Dr D McCauley			
Module teaching staff:	Team taught			

SD5103 Development and Environment				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1
Planned timetable:	10.00 am - 12.00 noon Wed			
The world has changed dramatically since the early 1700s, and the onset of modern economic growth and the industrial revolution. However, despite rapid advancements the world today remains divided between high-income, middle-income and low-income countries. This module takes a broad perspective on economic development and how it interacts with the environment. The module introduces key concepts in economic development and natural resource management.				
Programme module type:	Compulsory for MSc in Sustainable Development and Environmental Economics Optional for Sustainable Development and Sustainable Development and Energy			
Anti-requisite(s):	SD3224, SD4113, SD5101			
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures and seminar style teaching			
Assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Team taught			

SD5104 Public Policy and the Environment				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Availability restrictions:	Available only to students taking Sustainable Development and Environmental Economics (MSc)			
Planned timetable:	2.00 pm - 4.00 pm Thu			
This module is a seminar based and will introduce students to advanced topics in environmental economics. It follows on from SD5024 and SD5103.				
Programme module type:	Compulsory for Sustainable Development and Environmental Economics			
Co-requisite(s):	SD5024	Anti-requisite(s):	SD5102	
Learning and teaching methods and delivery:	Weekly contact: 2-hour seminars (x 11 weeks)			
Assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Team taught			

SD5024 Economics for the Environment				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	11.00 am - 1.00 pm Wed			
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:	Compulsory for MSc in Sustainable Development and Environmental Economics Optional for Sustainable Development and in Sustainable Development and Energy			
Anti-requisite(s):	SD5023			
Learning and teaching methods and delivery:	Weekly contact: 2 hours - mixture of lectures and seminar style teaching			
Assessment pattern:	Coursework = 100%			
Module coordinator:	Dr E McLaughlin			
Module teaching staff:	Team taught			

SD5098 Advanced study in Sustainable Development				
SCOTCAT Credits:	60	SCQF Level 11	Semester:	Whole Year
Availability restrictions:	Available only to students on an MSc programme in Sustainable Development			
Planned timetable:	12.00 noon - 1.00 pm Tue			
The purpose of this module is to provide experience and training in applied scientific writing and evaluation. This will be assessed via an academic literature review, a policy brief (based on the format and structure of POSTNotes produced by the Parliamentary Office of Science and Technology, Westminster) and a reflection on the process of translating academic review into policy advice. This allows students to apply conceptual considerations and critical evaluation to a real world context using a number of well-established formats that involve synthesis, evaluation and translation of scientific knowledge.				
Programme module type:	Compulsory for MSc in Sustainable Development, Sustainable Development and Energy, and Sustainable Development and Environmental Economics			
Pre-requisite(s):	Admission to one of the SD MSc programmes			
Learning and teaching methods and delivery:	Weekly contact: 1 lecture per fortnight (during semesters 1 and 2), 3 field trips (during semesters 1 and 2)			
Assessment pattern:	Coursework = 100%			
Module coordinator:	Dr A Davies			
Module teaching staff:	Dr A Davies, Dr D McCauley, Dr E McLaughlin			

Optional module:

SD5025 Climate Policy and Climate Economics				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2
Planned timetable:	To be arranged.			
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 MSc Sustainable Development, MSc Sustainable Development and Energy, MSc Sustainable Development and Environmental Economics			
Learning and teaching methods and delivery:	Weekly contact: 2-hours lecture (x 6 weeks); 1-hour lecture (x 5 weeks); 1-hour seminar (x 5 weeks)			
Assessment pattern:	Coursework = 100%			
Module coordinator:	Dr C Braun			
Module teaching staff:	Dr C Braun			

Optional modules are available from partner Schools/Departments:

Partner subjects: In addition to SD coded options modules, students may, with the permission of their advisor and the schools concerned, also 'dip across' to some modules in Geography, History, Management and Medicine (details below). [Full module details are available online](#)

Geography:

GG5227 Introduction to Geographic Information Science				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

SS5101 Being a Social Scientist				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

SS5102 Philosophy and Methodology of the Social Sciences				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

SS5103 Qualitative Methods in Social Research				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

SS5104 Quantitative Research in Social Science				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

SG4228 Advanced Topics in Geographic Information Science (GISci)				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

History:

MO5223 Disease and Environment (c.1500 - c.2000) (20)				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2

Management:

MN5513 Ethics, Organisations and Management				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	1

MN5311 Responsible Investment				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2

MN5821 Managing Non-Governmental Organisations				
SCOTCAT Credits:	20	SCQF Level 11	Semester:	2

Medicine:

MD5201 Issues in Global Health				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

MD5202 Principles in Implementation Science				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

MD5203 Ten Global Health Problems				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	1

MD5204 Globalisation and Health				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

MD5205 Inequalities and Inequities in Global Health				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

MD5206 Evidence Synthesis for Global Health Policy, Programming, and Practice				
SCOTCAT Credits:	15	SCQF Level 11	Semester:	2

Sustainable Development:

SD5003 Master Class in Sustainable Development				
SCOTCAT Credits:	30	SCQF Level 11	Semester:	2