### GG1001 Welcome to the Anthropocene: Society, Population, Environment

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<tr>
<th>SCOTCAT Credits:</th>
<th>20</th>
<th>SCQF level 7</th>
<th>Semester</th>
<th>1</th>
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<tr>
<td>Academic year:</td>
<td>2020-2021</td>
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<tr>
<td>Planned timetable:</td>
<td>Lectures: 11.00 am Tue, Wed, and Thu</td>
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As the global population speeds past 7 billion, mounting evidence about resource depletion and climate change, and global economic inequality and social injustice, suggests current human development is unsustainable and that we are now living in the Anthropocene - an era in which human activity has, for the first time, become the dominant driver of environmental processes, and is causing unprecedented global change. The module shows how Geography, a discipline that draws on knowledge that spans the social and natural sciences and the humanities, is uniquely placed to understand our changing world. Its combination of lectures and tutorials are relevant to students across the University.

**Learning and teaching methods of delivery:**
- **Weekly contact:** 3x 1-hour online lectures (x 10 weeks) + 4x 1-hour tutorials + 2x 2-hour practical class and 1x half day optional field trip
- **Scheduled learning:** 45 hours
- **Guided independent study:** 155 hours

**Assessment pattern:**
- As defined by QAA:
  - Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%
- As used by St Andrews:
  - 100% continual assessment

**Pre-requisite(s):**
Before taking this module you must pass GG1001

**Module coordinator:** Dr T R Cowton

**Module teaching staff:** Team taught

### GG1002 A World in Crisis?

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<tr>
<th>SCOTCAT Credits:</th>
<th>20</th>
<th>SCQF level 7</th>
<th>Semester</th>
<th>2</th>
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Contemporary global problems such as pollution, biodiversity loss and population growth are critical issues for the planet's future and demonstrate the interdependence of social and environmental systems. This module unpacks the complexity of these challenges by analyzing different manifestations of 'a world in crisis' as questions of geography - shaped by geographic processes operating at a range of scales (from the global to the local). The module thus explores how Geography works as a 'world discipline' that is equipped to examine global problems from a range of human, environmental and physical geography perspectives. Teaching comprises a mix of lecture learning and project work on selected global problems.

**Pre-requisite(s):**
Before taking this module you must pass GG1001

**Learning and teaching methods of delivery:**
- **Weekly contact:** 3 x 1-hour online lectures (x 10 weeks) + 5 x 1-hour tutorials + 1 x 8-hr field class (circumstances permitting) or alternative practical class
- **Scheduled learning:** 46 hours
- **Guided independent study:** 154 hours

**Assessment pattern:**
- As defined by QAA:
  - Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%
- As used by St Andrews:
  - 100% continual assessment

**Re-assessment pattern:**
100% continual assessment

**Module coordinator:** Dr T R Cowton

**Module teaching staff:** Team taught
Building on the exploration of contemporary global social and environmental crisis at GG1000-level, this is the first of two modules that develop students’ disciplinary training and introduce a range of sub-disciplinary fields and skills that will lay the foundation for specialisation at honours. Thinking ‘geographically’ about the physical and human dimensions of global change in the areas of human inequality, paleoecology, biogeography and population geography offers particular insights into the dynamic processes and interactions shaping our changing world. The sub-disciplinary fields addressed this semester will be framed by a broader discussion of the nature and evolution of geography as a discipline, encouraging students to utilise the conceptual lenses of time, space, context, scale and variation, together with field, laboratory, and model-based methods and Geographic Information Science to analyse processes of change. The module will also enable students to develop a range of transferable skills useful to both study and careers.

<table>
<thead>
<tr>
<th>Pre-requisite(s):</th>
<th>Before taking this module you must pass GG1001 and pass GG1002</th>
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<tbody>
<tr>
<td>Learning and teaching methods of delivery:</td>
<td>Weekly contact: 4 lectures (x 10 weeks), 4 x 1-hour tutorials, 1 x virtual fieldtrip, 2 x 2 hour virtual practicals during the semester</td>
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<td>Scheduled learning:</td>
<td>56 hours</td>
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<td>Guided independent study:</td>
<td>244 hours</td>
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<td>Assessment pattern:</td>
<td>As defined by QAA: Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%</td>
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<td>As used by St Andrews:</td>
<td>100% continual assessment.</td>
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<td>Re-assessment pattern:</td>
<td>100% continual assessment.</td>
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<td>Module coordinator:</td>
<td>Dr M G Kesby</td>
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<td>Module teaching staff:</td>
<td>Team taught</td>
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GG2012 (Re)constructing Environments, People and Places

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<tr>
<th>SCOTCAT Credits:</th>
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<th>Semester</th>
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<td>Lectures: 9.00 am Mon - Fri</td>
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This second 2000 level module introduces further disciplinary training, sub-disciplinary fields and research skills to lay the foundation for specialisation at honours. It examines geography’s concern with how and why bio-physical and social processes operate in both time and space. Geographers both reconstruct representations of past physical and human environments in order to understand existing patterns and future scenarios and investigate how present physical and human processes (re)construct contemporary landscapes and different representations of environment, peoples and places. Lecture blocks on geography’s venues, geomorphology, climate, glacial processes, environmental management, cultural, social and political geographies, together with training in statistics and field research (via a virtual field class) explore the challenges of such temporal/spatial (re)construction and representation.

Pre-requisite(s): Before taking this module you must pass GG2011

Learning and teaching methods of delivery:
Weekly contact: Weekly contact: 4 lectures (x 10 weeks) + 4 x 1-hour tutorials, 3x1-hour virtual practicals, 1 x virtual fieldtrip during the semester.

Scheduled learning: 70 hours
Guided independent study: 226 hours

Assessment pattern:
As defined by QAA:
Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%

As used by St Andrews:
100% continual assessment.

Re-assessment pattern: 100% continual assessment.

Module coordinator: Dr M G Kesby

Module teaching staff: Team taught

SD1000 What is Sustainable Development?

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<td>Planned timetable:</td>
<td>Lecture Tue, Wed, Thu 9-10.</td>
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The module provides an introductory overview to the core societal and environmental challenges of the 21st Century and of the solutions that are a core part of Sustainable Development. Students explore the broad definitions of Sustainable Development (contextualising it in historical and conceptual terms), consider their multiple disciplinary facets and interpretations, and then interrogate critically the different approaches and meanings involved in the SD discourse. Overall, the aim is to foster critical analysis of the principles, practice and plurality of Sustainable Development, and thereby - ultimately - contribute to the evolution of innovative, interdisciplinary thinking and action necessary for moving towards more sustainable futures.

Learning and teaching methods of delivery:
Weekly contact: 3 x 1-hour online lectures (x 10 weeks), 1-hour tutorials (x 5 weeks), 2 further contact hours for assessment clinics.

Scheduled learning: 37 hours
Guided independent study: 154 hours

Assessment pattern:
As defined by QAA:
Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%

As used by St Andrews:
100% continual assessment.

Re-assessment pattern: 100% continual assessment.

Module coordinator: Dr L A Reid

Module teaching staff: Team taught
Building on the introduction and broad overview of Sustainable Development (SD) provided in SD1000, SD1004 offers detailed investigation of a selection of core issues in SD and of how these issues are addressed by key players. Utilising the UN's Sustainable Development Goals as a framework, the module is organised around five thematic clusters: Poverty, inequalities & migration; Health, education and wellbeing; Peace, justice and governance; Climate change and energy; and Biodiversity and ecosystems. These themes are explored from various disciplinary perspectives, explaining: (i) how each theme can be understood and what it entails in practice, (ii) who the key stakeholders are and the nature of their involvement, and (iii) how we can critically analyse the evidence in the context of SD and go beyond conventional paradigms and behavioural patterns. The module also highlights recurring, cross-cutting themes such as values, partnership and diversity as ambitions of SD.
Having considered in Level 1 why the concept of sustainable development (SD) is important and key concerns and areas of debate in understanding meanings of SD, Level 2 of the programme progresses to introduce aspects of how SD might be encouraged and facilitated. This module considers broad conceptual approaches to implementing SD. It includes more traditional frameworks based on governance and regulation (‘command and control’) as well as examining the role and importance of other approaches, including environmental justice and management as well as community-based solutions and partnerships and conservation science. The module also addresses the extent to which these different approaches are independent and how they can be used together to bring about change for SD.

Pre-requisite(s): Before taking this module you must pass SD1000 and pass SD1004

Learning and teaching methods of delivery: Weekly contact: 3 recorded lectures x 10 weeks, 3 x 1hr Teams Q and A sessions following each recorded lecture x 10 weeks, 5 x 1hr tutorials (face-to-face or Teams) spread over the semester, 3 x 2hr drop-in sessions on assignments, 2 x 2hr peer-led Teams sessions, 1 x 2hr field trip to West Sands

Assessment pattern: As defined by QAA:
Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%

As used by St Andrews: 100% continual assessment.

Re-assessment pattern: 100% continual assessment.

Module coordinator: Dr A C K Brown

Module teaching staff: Team taught
It is not often clear how ideas from sustainable development catalysed real-world change. The SD2002 module builds upon core themes from SD2001 and looks at ‘how’ different agents, such as governments, corporations, and individuals enact change. Fundamental to this module is the development of methodologies used to gather evidence and study the problems faced in SD. The module will challenge students to develop critical analysis skills; both qualitative and quantitative by producing an online poster and utilising statistics to inform analysis.

**Pre-requisite(s):**
Before taking this module you must pass SD2001

**Learning and teaching methods of delivery:**

**Weekly contact:** Lectures: 4 x online recordings with matching 1hr Teams sessions x 11 weeks., Tutorials: 5 x 1hr tutorials (online via Teams or face-to-face), Quant Practicals: 4 x 2hr sessions (online via Teams or face-to-face), Office/ contact hours: 11 x 2hr Teams and/ or face-to-face., 2hr field trip to R and A Golf Course/ virtual equivalent.

**Scheduled learning:** 56 hours  
**Guided independent study:** 244 hours

**Assessment pattern:**

As defined by QAA:  
Written Examinations = 0%, Practical Examinations = 0%, Coursework = 100%

As used by St Andrews:  
100% continual assessment.

**Re-assessment pattern:**  
100% continual assessment.

**Module coordinator:** Dr A C K Brown

**Module teaching staff:** Team taught