The following module specifications reflect the most current planning for module delivery in the 2021/22 academic year. In planning for module delivery in 2021/22 the University will continue to respond to the UK government’s projected road map, and also to any further relevant national developments and public health requirements relating to the coronavirus pandemic. The University will continue to develop our approach to delivery and assessment in 2021/22 and these specifications may be subject to change in the event of updating national guidance or public health requirements. The specifications will be updated as soon as practically possible to reflect changes as they arise.
Module Specification

GY1411  Human Geography for a Globalized World

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**Student Workload (hours)**

- Synchronous Lectures 16
- Synchronous Small Group Teaching 18
- Synchronous Practical Classes/Workshops/Professional Placements 4
- Synchronous Other
- Asynchronous Lectures/Presentations 8
- Asynchronous Other
- Guided Independent Study 104
- Total Module Hours 150

**Intended Learning Outcomes**

On successful completion of the module, students should be able to:
- define key geographical concepts, such as place, space, spatiality, scale and network;
- discuss how geographers have studied contemporary geographies of globalization;
- describe geographical identity, difference and inequality at various spatial scales;
- outline how place, spatiality and networks matter to a variety of social, cultural, economic and political processes that are studied by contemporary geographers.

**Teaching and Learning Methods**

Asynchronous on-line lectures & learning activities, synchronous on-line lectures and discussions, face to face seminar discussions and learning activities, Directed Reading, Independent Study

**Assessment Methods**

Exam, Coursework Portfolio (based around learning activities conducted on module)

**Pre-Requisites**

- 

**Co-Requisites**

- 

**Excluded Combinations**

- 

**Guided Independent Study: Indicative Activities**

reading for lectures; reviewing/making deeper lecture notes having followed up reading, background reading for assessments; revision for short answer test and written exam

Last Published: 2 December 2021
Module Specification

GY1412  Environment / Nature / Society

Academic Year: 2021/2
Module Level: Year 1
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 2
Occurrence: E
Coordinator: Brett Matulis
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)
- Synchronous Lectures: 21
- Synchronous Small Group Teaching: 6
- Synchronous Practical Classes/Workshops/Professional Placements: 10
- Asynchronous Lectures/Presentations: 113
Total Module Hours: 150

Intended Learning Outcomes
On successful completion of the module, students should be able to:
- Understand the various historical and contemporary ways of conceptualising nature
- Acquire a historical perspective of environmental governance
- Explain how environmental values are changing and with what social consequences
- Use a variety of case examples to explain ecosystem degradation, land use conflicts, issues social justice, and resource extraction dilemmas
- Understand a variety of solutions to ongoing environmental tensions through restoration projects, degrowth, and alternative knowledges

Teaching and Learning Methods
Lectures
Topical seminars
Directed Reading
Film

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Reading for seminars
Independent reading for coursework assignment
Guided personal reflection exercises

Last Published: 2 December 2021
## Module Specification

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### Intended Learning Outcomes

On successful completion of the module, students should be able to:

- describe and summarize quantitative geographical data numerically and graphically;
- explain the difference between samples and populations of quantitative data and the implications these differences have for manipulating sampled data;
- select an appropriate test of difference or association to test hypotheses based the descriptive statistical analyses;
- carry out tests of difference (t-tests and chi-sq tests) on geographical data and interpret and evaluate the results;
- perform ordinary least squares regression and interpret the relationship between response and explanatory variables.

### Teaching and Learning Methods

Lectures; Computer Based Practical Classes.

### Assessment Methods

- **Test**
- Submission One: Practical One
- Submission Two: Practical Three
- Submission Three: Practical Five
- Submission Four: Practical Eight
- Submission Five: Practical Nine

### Pre-Requisites

- 

### Co-Requisites

- 

### Excluded Combinations

- 

### Guided Independent Study: Indicative Activities

Reading for seminars, reviewing lecture notes and following up on concepts with materials from Blackboard resources folder or independent searches for information, preparing for practical exercises or completing these.
## Module Specification

### GY1422 Introducing Leicester Geographies

**Academic Year:** 2021/2  
**Module Level:** Year 1  
**Scheme:** UG  
**Department:** Geography  
**Credits:** 15

**Period:** Semester 1  
**Occurrence:** E  
**Coordinator:** Mark Powell  
**Mark Scheme:** UG Module Mark Scheme

### Student Workload (hours)

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### Intended Learning Outcomes

On successful completion of the module, students should be able to:

1. Demonstrate their ability to locate, critically evaluate and appropriately use information in the study of geography;
2. Communicate geographical concepts and information in written and oral formats;
3. Work effectively as a member of a group to collectively explore geographical concepts;
4. Demonstrate academic integrity in submitted work through appropriate use of academic citation and referencing convention.

### Teaching and Learning Methods

Lectures; Tutorials; Practical class/workshop.

### Assessment Methods

#### Pre-Requisites

#### Co-Requisites

#### Excluded Combinations

#### Guided Independent Study: Indicative Activities

Reading; working on referencing; developing Powerpoint presentation skills

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**Last Published:** 2 December 2021
Module Specification

GY1423 Exploring our Digital Planet

Academic Year: 2021/2
Module Level: Year 1
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Kevin Tansey
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)
- Synchronous Lectures 9
- Synchronous Small Group Teaching 7
- Synchronous Practical Classes/Workshops/Professional Placements 16
- Synchronous Other
- Asynchronous Lectures/Presentations 0
- Asynchronous Other 0
- Guided Independent Study 118
- Total Module Hours 150

No. Assessment Description Weight % Qual Mark Exam Hours Ass't Group Alt Reass't
001 Digital Map Design 50
002 Digital Geographies Short Answer coursework 50

Intended Learning Outcomes
On successful completion of the module, students should be able to:
1. Produce a map with appropriate symbology, colour, scale and representation
2. Demonstrate understanding of a Geographical Information System
3. Demonstrate understanding about the nature and format of digital data and its representation
4. Demonstrate understanding of the applications of map production and spatial data analysis in a number of thematic areas in human and physical geography
5. Demonstrate abilities in the use of IT, numeracy, problem solving and information handling

Teaching and Learning Methods
Lectures; Computer-Based Practicals; Independent Study

Assessment Methods
Digital Map Design
Digital Geographies Short Answer coursework

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Directed reading, revision of both lecture and practical material

Last Published: 2 December 2021
Module Specification

GY1431  Evolution of the Earth System

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**Student Workload (hours)**

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**Intended Learning Outcomes**

On successful completion of the module, students should be able to:

1) Outline the concept of the “Earth System” and be able to illustrate this with examples of its functioning (e.g. interactions between the “spheres”)
2) Explain the major controls on planetary temperatures and the implications for planetary habitability.
3) Understand the nature and divisions of geological time
4) Outline the major classes and divisions of life on earth
5) Explain the operation of the three major biogeochemical cycles – the carbon, nitrogen and phosphorous cycles
6) Illustrate the role of the global carbon cycle in both moderating and driving global climate trends
7) Consider the impacts of human activities upon the operation of the Earth System

**Teaching and Learning Methods**

Learning objectives are taught via a series of online guided activities/computer practicals, reading assignments and worksheets and online recordings. These will be supported by weekly sessions for students to review materials and their own supplementary readings with a tutor. Five on campus face-to-face tutorials are spaced throughout the course. These will be focussed on key concepts using pre-assigned readings and worksheets as a means to begin the discussions. Supplementary numeracy and scientific terminology refresher material, designed to support ongoing learning throughout this module and the first year physical geography material, will available on Blackboard and (used where appropriate for the student) will be taught through self-help and self-assessment materials provided on the VLE.

**Assessment Methods**

Students are assessed via two short answer question worksheets and a final selection of coursework essays

**Pre-Requisites**

**Co-Requisites**

**Excluded Combinations**

- **Guided Independent Study: Indicative Activities**

Assigned reading and associated preparation for the three course tutorials, continuous reading to support lecture materials (course text book and specific reading list provided), science and numeracy self-assessment and worksheet material, optional preparation for attendance of (optional) weekly clinic sessions.

Last Published: 2 December 2021
GY1432  The Contemporary Earth System

Module Specification

Academic Year: 2021/2
Module Level: Year 1
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 2
Occurrence: E
Coordinator: Jorg Kaduk
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

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</table>

Intended Learning Outcomes

On completion of the module, students will be able to describe and account for:
- the Earth's global energy exchanges;
- the global and regional pattern of atmospheric and oceanic circulations;
- climate classification systems and the distribution and differences between global climates;
- global patterns of weathering and soil forming processes and products;
- the distribution of terrestrial biomes and their characteristics.

Teaching and Learning Methods

Lectures, Supervised problem solving, Directed Reading, Independent Study, Self Assessment

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Required reading, recommended videos, short video clips on particular concepts, development of thought/concept maps

Last Published: 2 December 2021
Module Specification

GY2410 Histories and Philosophies of Human Geography

Academic Year: 2021/2
Module Level: Year 2
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Angela Last
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

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</table>

Intended Learning Outcomes

On successful completion of the module, students should be able to:
- understand the reasons for the changing nature of how the discipline of Geography presents itself
- explain key theoretical perspectives in Human Geography, including their historical origins and contemporary relevance
- critically assess and experiment with different theoretical approaches that move across all areas of Human Geography
- understand how theorisation is performed across a variety of different media, as well as within academic texts

Teaching and Learning Methods

Lectures, seminars, tutorials and guided independent study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Activities for guided independent study should include reading and informal discussion in support of lectures and seminars and in preparation for the exam. Additional independent study should include note revision and supplementary research and reading to support individual learning, lectures and seminars as well as in preparation for final exam and future modules in Human Geography.
GY2411  A Critical Geography of Environment and Development

Student Workload (hours)

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</table>

Intended Learning Outcomes

On successful completion of the module, students should be able to:
- Understand and explain the contested nature of 'development' & 'environment' in theory and practice
- Evaluate the importance of history in understanding contemporary development divides
- Analyse the impacts of contemporary 'development' on different spaces, places and environments
- Understand the contested nature and practices of 'environmental governance'

Teaching and Learning Methods

Online lectures; tutorials, seminars; films; independent study.

Assessment Methods

Two pieces of coursework. CW1: 25%, CW2: 75%

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Reading for seminars/tutorials; preparation for coursework assignment; key readings for online lectures, online exercises.
Module Specification

GY2412  Economy, Society and Space

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Student Workload (hours)
- Synchronous Lectures: 11
- Synchronous Small Group Teaching: 6
- Synchronous Practical Classes/Workshops/Professional Placements: 5
- Synchronous Other: 8
- Asynchronous Lectures/Presentations: 8
- Asynchronous Other: 8
- Guided Independent Study: 120
- Total Module Hours: 150

Intended Learning Outcomes
On successful completion of the module, students should be able to:
- Use a 'commodity circuits' approach to examine contemporary geographical developments in some of the key sectors in the global economy.
- Use 'nexus thinking' to examine the dynamics between key 'regions' in the global political and economic system.
- Develop effective written communication and research skills about commodities and economies and their relevance for geographical research and practice.

Teaching and Learning Methods
Lectures; Tutorials; Surgeries; Directed Reading; Independent. Module assessment includes 1 formative assessment weighted at 20% and 1 summative assessment weighted at 80%.

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Reading for seminars, reviewing/making deeper lecture notes having followed up reading, background reading for assignments.

Last Published: 2 December 2021
Module Specification

GY2413  Social and Cultural Geography

Academic Year: 2021/2
Module Level: Year 2
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Loretta Lees
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

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Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Explain the key approaches to study of social and cultural geography.
- Assess the relevance of the cultural turn and poststructural thinking to explaining social and cultural phenomena.
- Analyse how social and cultural spaces/places are constructed, experienced, felt, represented and materialised.
- Critically analyse how social and cultural phenomena are expressed in diverse contexts (e.g. different places) and at various scales (local, national, global).

Teaching and Learning Methods

Lectures, seminars, surgeries, directed reading, independent study and field trip

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Self-led field trips covering issues in the course.

Last Published: 2 December 2021
Module Specification

GY2416  Political Geography: Space, Territory and Power

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Student Workload (hours)

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<td>Guided Independent Study</td>
<td>118</td>
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<td>150</td>
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</table>

Period: Semester 2
Occurrence: E
Coordinator: Matthew Wilde
Mark Scheme: UG Module Mark Scheme

Intended Learning Outcomes

On successful completion of the module, students should be able to:

- describe the development of different geographical modes of thinking about politics
- define and apply key geographical concepts pertaining to geopolitics and political geography
- explain the relationship between the state and territory at different spatial scales
- explain the changing forms and functions of the state
- explain the relationship between place, participation and citizenship

Teaching and Learning Methods

Short online lectures; structured activities on virtual learning environment; online tutorials; directed reading; virtual learning environment

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Set reading from reading list; reviewing and making deeper lecture notes enhanced by follow-up reading; background reading for assessments; secondary research for assessments; suggested extension activities from virtual learning environment.

Last Published: 2 December 2021
Module Specification

GY2420  Climate Change: Impacts, Vulnerability and Adaptation

Academic Year: 2021/2
Module Level: Year 2
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Susan Page
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

<table>
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<th>Hours</th>
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<td>6</td>
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<td>Professional Placements</td>
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<td>125</td>
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<tr>
<td>Total Module Hours</td>
<td>150</td>
</tr>
</tbody>
</table>

Intended Learning Outcomes

Explain the greenhouse effect and the role of humans in the climate system;
Explain the role of the IPCC, governments and policy makers in assessing scientific, technical and socio-economic information relevant to understanding the scientific basis of risk of human-induced climate change, its potential impacts and options for adaptation and mitigation;
Describe how selected regions and ecosystems are likely to be affected by climate change up until 2100, including identification of the major risks, impacts and vulnerabilities;
Interpret recent scientific studies on climate change impacts in the broader context and demonstrate an ability to write scientific material aimed at different audiences (popular and professional);
Access, analyse and summarise climate data and assess vulnerabilities and likely adaptation and mitigation options.

Teaching and Learning Methods

Lectures, seminars, tutorials, coursework clinics

Assessment Methods

Science article and poster

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Guided reading; preparation of coursework; preparation for contributions to tutorial discussions

Last Published: 2 December 2021
### Module Specification

**GY2421 Geographical Information Science**

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<td>Year 2</td>
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<td>Geography</td>
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<td>Credits:</td>
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**Student Workload (hours)**

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**Period:** Semester 2  
**Occurrence:** E  
**Coordinator:** Claire Jarvis  
**Mark Scheme:** UG Module Mark Scheme

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<td>CW Practical 2</td>
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</table>

### Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Input, interrogate and map data using a GIS
- Apply the theory of basic GIS operators and analytical approaches to a variety of geographical problems
- Demonstrate an awareness of the variety of ways in which digital spatially-referenced data, qualitative or quantitative, may be collected and represented
- Outline, explain and critically evaluate a variety of spatial data analysis techniques with reference to a number of geographical examples

### Teaching and Learning Methods

Lectures, Computer Practical Classes, Guided Independent Study

### Assessment Methods

Coursework 100%

### Pre-Requisites

- 

### Co-Requisites

- 

### Excluded Combinations

- 

### Guided Independent Study: Indicative Activities

Reading; Computer analyses; Mapping

Last Published: 2 December 2021
Module Specification

GY2424  Remote Sensing of the Environment

Student Workload (hours)

<table>
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<th>Activity</th>
<th>Hours</th>
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<tbody>
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<td>Guided Independent Study</td>
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<th>Ass't Group</th>
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<td>Test</td>
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<td>003</td>
<td>Report</td>
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</table>

Intended Learning Outcomes

On successful completion of the module, students should be able to:

- explain the physical principles underlying remote sensing studies. This includes being able to define key concepts and terminology used in remote sensing such as electromagnetic radiation, surface reflectance and spectral reflectance curves;
- associate the data that these sensors provide with an understanding of interactions of radiation with different surface features and geographical phenomena;
- demonstrate their ability to manipulate satellite data using dedicated image-processing software. Make visual interpretations of satellite images to support theory;
- apply the principles of image acquisition and interpretation to making decisions on the appropriateness of the use of remotely sensed data to address geographical issues in both human and physical environments.

Teaching and Learning Methods

Lectures; Seminars; Computer Practical Classes; Independent Study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Reading for seminars, reviewing lecture notes and following up on concepts with materials from Blackboard resources folder or independent searches for information, background reading for assignments

Last Published: 2 December 2021
Module Specification

GY2431  Data Analysis

Student Workload (hours)
- Synchronous Lectures: 1 hour
- Synchronous Small Group Teaching: 4 hours
- Synchronous Practical Classes/Workshops/Professional Placements: 22 hours
- Synchronous Other: 3 hours
- Asynchronous Lectures/Presentations: 22 hours
- Asynchronous Other: 3 hours
- Guided Independent Study: 98 hours
- Total Module Hours: 150 hours

Period: Semester 1
Occurrence: E
Coordinator: Mark Powell
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

<table>
<thead>
<tr>
<th>No.</th>
<th>Assessment Description</th>
<th>Weight %</th>
<th>Qual Mark</th>
<th>Exam Hours</th>
<th>Ass’t Group</th>
<th>Alt Reass’t</th>
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</table>

Intended Learning Outcomes

On successful completion of the module, students should be able to:
- analyse and critically evaluate geographical problems
- adopt appropriate methodological strategies for the quantitative analysis of geographical data
- interpret quantitative analyses of geographic data
- write up quantitative analyses and interpretations of geographical data in a stylistically appropriate and concise manner

Teaching and Learning Methods

Lectures, Worksheets, Practical Classes, Workshops, Clinics, Guided Study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Worksheets
Module Specification

GY2433 Catchment Systems

Academic Year: 2021/2
Module Level: Year 2
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Mark Powell
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

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<td>Total Module Hours</td>
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</table>

Intended Learning Outcomes

On successful completion of the course, students should be able to:

- Describe the main components of the terrestrial water balance, along with common methods for their measurement, and explain how these components interact with one another;
- Critically evaluate the factors controlling hydrological response in river catchments with a range of different characteristics;
- Describe the variety of fluvial forms;
- Account for the variety of channel forms;
- Critically evaluate the concepts of magnitude, frequency and equilibrium morphodynamics in understanding the development of fluvial landscapes

Teaching and Learning Methods

Lectures, Fieldwork, Exercises in Catchment Hydrology and River Geomorphology, Independent Study, Tutorials and Guided Study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Worksheets, Directed reading

Last Published: 2 December 2021
Module Specification

GY2434 The Dynamic Biosphere

Academic Year: 2021/2
Module Level: Year 2
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Juan Berrio

Mark Scheme: UG Module Mark Scheme

<table>
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<th>No.</th>
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<th>Exam Hours</th>
<th>Ass't Group</th>
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<tbody>
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Student Workload (hours)

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<th>Activity</th>
<th>Hours</th>
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<tbody>
<tr>
<td>Synchronous Lectures</td>
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<td>Synchronous Practical Classes/Workshops/Professional Placements</td>
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<tr>
<td>Guided Independent Study</td>
<td>136</td>
</tr>
<tr>
<td>Total Module Hours</td>
<td>150</td>
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</table>

Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Demonstrate comprehension of basic ecosystem and biogeographical concepts and the role animal and plant species to shape their communities.
- Demonstrate knowledge on biodiversity, species and evaluation of ecosystem diversity and functioning at a range of spatial scales.
- Understand process of evolution, speciation and extinction to understand historical and evolutionary links between species and ecosystems; appreciate how environmental remote sensing can be used to provide spatial and temporal information on both the biosphere and environmental change.
- Learn how to run a simple ecological model.

Teaching and Learning Methods

Lectures; Tutorials; Directed Reading; Laboratory Practical Classes; Computer Practical Classes; Field Courses; Independent Study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Handouts and assigned reading associated to series of tutorials will support students for successful CW submissions. Permanent support by lecturers and further reading materials are available on BB.

Last Published: 2 December 2021
Module Specification

GY2436 An Introduction of Past Global Climate Changes

Academic Year: 2021/2
Module Level: Year 2
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 2
Occurrence: E
Coordinator: Andrew Carr
Mark Scheme: UG Module Mark Scheme

### Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Describe the major global climatic shifts, trends and cycles during the Quaternary Period
- Explain the basic principles underlying orbital ('Milankovitch') climate forcing and describe the evidence that supports this hypothesis
- Explain how the Greenland and Antarctic provide records of global climatic changes and describe the main 'internal' drivers of abrupt global climate change identified in these archives
- Summarise the range of palaeo-environmental proxy data sources used by Quaternary scientists
- Describe the principal geochronological techniques utilized in Quaternary science

### Teaching and Learning Methods

The module will be taught using a mixture of online lectures, online guided activities, a guided computer practical carried out online/remotely, guided/structured reading materials, a 2 hour laboratory practical, and face to face tutorials spread through the term

### Assessment Methods

The module will be assessed via a piece of coursework based around the analysis of real (ice core, ocean core) palaeoclimatic datasets, and via a final suite of coursework essays selected from a list of topics covering the breadth of the course

### Student Workload (hours)

<table>
<thead>
<tr>
<th>Synchronous Lectures</th>
<th>Synchronous Small Group Teaching</th>
<th>Synchronous Practical Classes/Workshops/Professional Placements</th>
<th>Synchronous Other</th>
<th>Asynchronous Lectures/Presentations</th>
<th>Asynchronous Other</th>
<th>Guided Independent Study</th>
<th>Total Module Hours</th>
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<td>4</td>
<td>5</td>
<td>8</td>
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</table>

### Guided Independent Study: Indicative Activities

Reading materials provided in specific lecture reading lists, analysis and presentation of data provided from practical 1 (used in coursework assessment), literature search and association reading required for interpretation of data analysed in CW1

Last Published: 2 December 2021
GY3411 Contemporary Environmental Challenges

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Caroline Upton
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)
- Synchronous Lectures: 13
- Synchronous Small Group Teaching: 10
- Synchronous Practical Classes/Workshops/Professional Placements: 0
- Synchronous Other: 6
- Asynchronous Lectures/Presentations: 6
- Asynchronous Other: 6
- Guided Independent Study: 115
- Total Module Hours: 150

Intended Learning Outcomes
On successful completion of the module, students should be able to:

- Draw on geographical debates and concepts to analyse contemporary environmental issues and challenges;
- Analyse and critique key concepts, with reference to diverse and contested values;
- Assess the role of alternative knowledge in shaping and contesting environmental practice;
- Critically evaluate prospects for new environmental futures through analysis of various contemporary issues;
- Apply critical thinking to contemporary environmental challenges encountered beyond the core module content.

Teaching and Learning Methods
Online lectures, tutorials, seminars, virtual fieldwork, films, guided review/learning activities

Assessment Methods
Two pieces of coursework. CW1: 30%, CW2: 70%

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Reading for seminars/tutorials; preparation and reading for assignments; key readings and exercises for online lectures and note-taking; preparation for virtual field visit

Last Published: 2 December 2021
Module Specification

GY3412  Cities of the Global South

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Student Workload (hours)
- Synchronous Lectures 10
- Synchronous Small Group Teaching 20
- Synchronous Practical Classes/Workshops/Professional Placements 2
- Synchronous Other
- Asynchronous Lectures/Presentations
- Asynchronous Other
- Guided Independent Study 118
- Total Module Hours 150

Period: Semester 2
Occurrence: E
Coordinator: Matthew Wilde
Mark Scheme: UG Module Mark Scheme

Intended Learning Outcomes
On successful completion of the module, students should be able to:
- Explain how geo-historical processes and everyday socio-political struggles interrelate to govern and shape contemporary cities of the global south
- Draw critical comparisons between different topics, cities, geographies and theoretical approaches connected by the module theme
- Critically assess contemporary urbanist theories using diverse forms of empirical data
- Examine contemporary challenges for cities of the global south and creatively explore their possible futures
- Develop effective oral and written communication skills about cities of the global south, urban futures and their relevance for geographical research and practice

Teaching and Learning Methods
Lectures; seminars; tutorials (essay planning); films (followed by critical discussion); directed reading; independent study

Assessment Methods
Reports

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Reading for seminars; reviewing and improving lecture notes (critical reading exercises); background reading for final essay; film screenings followed by critical discussions; peer-to-peer feedback

Last Published: 2 December 2021
Module Specification

GY3413  Geographies of the Market Place

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Benjamin Coles
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

<table>
<thead>
<tr>
<th>Activity Type</th>
<th>Hours</th>
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<tbody>
<tr>
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<td>Asynchronous Lectures/Presentations</td>
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<tr>
<td>Guided Independent Study</td>
<td>120</td>
</tr>
<tr>
<td>Total Module Hours</td>
<td>150</td>
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</table>

Intended Learning Outcomes
On successful completion of the module, students should be able to:
- Explain the relationships between place, place-making and economic markets
- Utilise a (critical) topographic approach to examine marketplaces as affective, as well as material, social and discursive assemblages
- Interrogate the material-semiotics of place to analyse the geographical extent of a market
- Engage a topographical analysis to articulate the intersections, interrelations and interdependancies through which markets become economic as well as geographical entities
- Develop effective research skills about cities, markets and economics, and effective communication skills for their presentation

Teaching and Learning Methods
Lectures; Tutorials; Directed Reading; Workshops; Independent Study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Reading for seminars, reviewing/making deeper lecture notes having followed up reading, background reading for assignments, attending field site and analysing data; may also include return visits to field site as individuals or as groups.

Last Published: 2 December 2021
Module Specification

GY3414  Critical Geopolitics

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Gavin Brown
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

- Synchronous Lectures: 20
- Synchronous Small Group Teaching
- Synchronous Practical Classes/Workshops/Professional Placements: 8
- Synchronous Other
- Asynchronous Lectures/Presentations: 10
- Asynchronous Other: 10
- Guided Independent Study: 102

Total Module Hours: 150

Intended Learning Outcomes

On successful completion of the module, students should be able to:

- describe the development (and historical context) of different intellectual traditions of thinking about geopolitics
- explain the difference between formal geopolitics, practical geopolitics, and popular geopolitics
- describe and explain key conceptual approaches associated with critical and feminist geopolitics
- apply critical geopolitical concepts to analyse a historical case study associated with the Cold War and/or decolonization
- apply critical geopolitical concepts to analyse one or more contemporary international case studies

Teaching and Learning Methods

Short online lectures; structured activities on virtual learning environment; online tutorials; directed reading; virtual learning environment

Assessment Methods

Pre-Requisites

GY2416

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Set reading from reading list; reviewing and making deeper lecture notes enhanced by follow-up reading; background reading for assessments; secondary research for assessments; suggested extension activities from virtual learning environment.

Last Published: 2 December 2021
### Module Specification

**GY3415  Migration, Place and Diversity**

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**Student Workload (hours)**

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</thead>
<tbody>
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<tr>
<td>Total Module Hours</td>
<td>150</td>
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**Period:** Semester 2  
**Occurrence:** E  
**Coordinator:** Katy Bennett  
**Mark Scheme:** UG Module Mark Scheme

### Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Demonstrate an understanding of contemporary migrations within historical contexts of human migration and socio-spatial change.
- Demonstrate critical understanding of different forms of forced and voluntary migration across the globe and how bordering practices shape experiences of migrants.
- Critically engage with the practices, policies and discourses of receiving societies and the agency of migrants around transnationalism and home.
- Demonstrate an appreciation of theories and concepts used to understand how people live and experience ethnic diversity in different places and spaces.
- Generate focused and comprehensive written and oral presentations.

### Teaching and Learning Methods

Teaching will be in the form of lectures, guided activities and student-led seminars. The seminars will take place in the second part of the semester and will involve student presentations.

### Assessment Methods

Presentation/exam

### Pre-Requisites

GY2410

### Co-Requisites

### Excluded Combinations

- 

### Guided Independent Study: Indicative Activities

Reading in preparation for seminars; Wider reading around lecture material; Preparation of assessed presentation and preparation for exams.

Last Published: 2 December 2021
### Module Specification

**GY3417**  Critical, Symbolic and Emotional Rural Geographies

<table>
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**Period:** Semester 2  
**Occurrence:** E  
**Coordinator:** Martin Phillips  
**Mark Scheme:** UG Module Mark Scheme

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### Student Workload (hours)

- Synchronous Lectures: 8 hours
- Synchronous Small Group Teaching: 13 hours
- Synchronous Practical Classes/Workshops/Professional Placements: 8 hours
- Asynchronous Lectures/Presentations: 8 hours
- Asynchronous Other: 8 hours
- Guided Independent Study: 113 hours

Total Module Hours: 150 hours

### Intended Learning Outcomes

On successful completion of the module, students should be able to:
- Outline and discuss critical, symbolic and affective approaches to understanding rural geographies;
- Apply these approaches to the analysis of developments in rural spaces in the UK and elsewhere;
- Construct theoretical, analytical and creative accounts of contemporary or past aspects of rural life.

### Teaching and Learning Methods

Lectures; Seminars; Field Course

### Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

- Guided Independent Study: Indicative Activities

Reviewing/making deeper lecture notes having followed up reading; background reading for seminars and assignments; analysis of film, television and magazine imagery, programmes; analysis of data sources and reports; reflection on personal experiences and observations of rural areas.

Last Published: 2 December 2021
Module Specification

GY3421  Information Visualisation

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<td>Total Module Hours</td>
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Period: Semester 2
Occurrence: E
Coordinator: Stefano De Sabbata
Mark Scheme: UG Module Mark Scheme

Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Explain and discuss fundamental concepts related to visual perception and representation, including but not limited to: symbol, glyph, visual variables, dimensionality, models of phenomena, graphical integrity and distortion, data ink, visual hierarchy
- Explain and discuss fundamental concepts related to cartography, including but not limited to: map elements, projection, normalization, classification, choropleth mapping, proportional symbols mapping, dot mapping
- Describe advantages and issues of main visualization methods, and identify an appropriate visualization method for any given case
- Apply the visualization design process to create effective visualizations
- Use software tools (e.g., R, Excel, Illustrator, QGIS) to create effective visualizations

Teaching and Learning Methods

Lectures, Practical Classes and Workshops (computer-based exercises)

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

The students will be presented with three (non-mandatory) formative assignments, that will guide them through a visualization design process. A first assignment will require the identification of a topic and research question. A second assignment will focus on retrieving appropriate data for the selected topic, and conduct an analysis of the collected data (not necessarily using statistical tools). A third assignment will require to create a draft of a visualization based on the analysis conducted for the second assignment. The materials produced for the formative assignment can (but not necessarily have to) be used as base for the summative assignment.

Guided Independent Study: Indicative Activities

The students will be presented with three (non-mandatory) formative assignments, that will guide them through a visualization design process. A first assignment will require the identification of a topic and research question. A second assignment will focus on retrieving appropriate data for the selected topic, and conduct an analysis of the collected data (not necessarily using statistical tools). A third assignment will require to create a draft of a visualization based on the analysis conducted for the second assignment. The materials produced for the formative assignment can (but not necessarily have to) be used as base for the summative assignment.

Guided Independent Study: Indicative Activities

The students will be presented with three (non-mandatory) formative assignments, that will guide them through a visualization design process. A first assignment will require the identification of a topic and research question. A second assignment will focus on retrieving appropriate data for the selected topic, and conduct an analysis of the collected data (not necessarily using statistical tools). A third assignment will require to create a draft of a visualization based on the analysis conducted for the second assignment. The materials produced for the formative assignment can (but not necessarily have to) be used as base for the summative assignment.

Background reading on the topics discussed during lectures and practicals will be provided.
Module Specification

GY3422  Geographical Information Science

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 2
Occurrence: E
Coordinator: Claire Jarvis
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)
- Synchronous Lectures 10
- Synchronous Small Group Teaching
- Synchronous Practical Classes/Workshops/Professional Placements 16
- Synchronous Other
- Asynchronous Lectures/Presentations
- Asynchronous Other
- Guided Independent Study 108
- Total Module Hours 150

Intended Learning Outcomes
On successful completion of the module, students should be able to:
- Apply the theory of basic GIS operators and analytical approaches to a variety of geographical data and problems
- Outline, explain and critically evaluate a variety of spatial data analysis techniques with reference to a number of geographical examples
- Negotiate the steps involved in a GIS analysis of real data

Teaching and Learning Methods
Lectures, Computer Practical Classes, Essay, Project

Assessment Methods

<table>
<thead>
<tr>
<th>No.</th>
<th>Assessment Description</th>
<th>Weight %</th>
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<th>Exam Hours</th>
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Pre-Requisites

Co-Requisites

Excluded Combinations
GY2421

Guided Independent Study: Indicative Activities
Reading; Computer analyses; Mapping

Last Published: 2 December 2021
## Module Specification

**Academic Year:** 2021/2  
**Module Level:** Year 3  
**Scheme:** UG  
**Department:** Geography  
**Credits:** 15

**Period:** Semester 1  
**Occurrence:** E  
**Coordinator:** Claire Jarvis  
**Mark Scheme:** UG Module Mark Scheme

### Student Workload (hours)

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<td>Total Module Hours</td>
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## Intended Learning Outcomes

On successful completion of the module, students should be able to:
- Critically review emergent spatially-enabled/enabling digital technologies
- Robustly communicate and debate contemporary critical debates in the within the 'digital turn' such as the dark web, 'smart' cities and the Internet of things, augmented reality and privacy
- Reflect on the map as a communication medium over history, digital or otherwise. looking through both cartesian and non-cartesian lenses

## Teaching and Learning Methods

Teaching will be in the form of lectures (1 hours per week) and seminars (7 weeks, 2 hours each). The seminars will be comprised of individual student presentations: analytical case studies of various aspects of the 'digital turn'

### Assessment Methods

- 

### Pre-Requisites

- 

### Co-Requisites

- 

### Excluded Combinations

- 

### Guided Independent Study: Indicative Activities

Guided reading

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Last Published: 2 December 2021
Module Specification

GY3428  Critical Geographies of North American Cultural Landscapes

Student Workload (hours)

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<tr>
<td>Total Module Hours</td>
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Intended Learning Outcomes

On successful completion of the module, students should be able to:
- to critically deconstruct North American cultural landscapes
- to study cultural theory and ideas in detail
- to provide students with the analytical skills/methodologies to decipher different cultural texts
- to promote cultural self awareness by exploring a culture that is both familiar and yet unfamiliar to most of us

Teaching and Learning Methods

Lectures, tutorials, seminars, films

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Reading for seminars; preparation and reading for assignments; key readings for lectures and note taking; critical engagement with film.

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Guided Independent Study: Indicative Activities

Reading for seminars; preparation and reading for assignments; key readings for lectures and note taking; critical engagement with film.
Module Specification

GY3433  Understanding Ecosystems and Environments of the Distant Past

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Student Workload (hours)
- Synchronous Lectures 10
- Synchronous Small Group Teaching
- Synchronous Practical Classes/Workshops/Professional Placements 10
- Synchronous Other
- Asynchronous Lectures/Presentations
- Asynchronous Other
  - Guided Independent Study 130
  - Total Module Hours 150

Period: Semester 1
Occurrence: E
Coordinator: Juan Berrio
Mark Scheme: UG Module Mark Scheme

Intended Learning Outcomes
On successful completion of the module, students should be able to:
- A wide understanding of Quaternary environmental change
- Critically evaluate the roles of internal and external drivers of climate change
- Evaluate paleo-environmental proxy data sources employed in the Quaternary
- An understanding of the general principles of climate change and climate variability (e.g. teleconnections)
- Appreciate and understand the importance of long-continental records to perform land-sea correlations.
- Understand the impacts of climate change on the development of pre-Columbian civilisations.

Teaching and Learning Methods
Lectures; Directed reading; Laboratory Classes; Computer practical Classes; Independent Study

Assessment Methods

Pre-Requisites
GY2436

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Directed Reading

Last Published: 2 December 2021
### Module Specification

**GY3434  Stable Isotopes in the Environment**

**Academic Year:** 2021/2  
**Module Level:** Year 3  
**Scheme:** UG  
**Department:** Geography  
**Credits:** 15

**Period:** Semester 2  
**Occurrence:** E  
**Coordinator:** Arnoud Boom  
**Mark Scheme:** UG Module Mark Scheme

#### Student Workload (hours)

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#### Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Explain the theory of stable isotope fractionation using appropriate terminology and scientific principles
- Collect, prepare and analyse samples for stable isotope analyses
- Analyse and discuss stable isotopic datasets
- Write scientific journal article
- Understand isotope fractionation in environmental processes

#### Teaching and Learning Methods

- Lectures
- Seminars
- Laboratory practicals/ demonstration

#### Assessment Methods

**No.** | **Assessment Description** | **Weight %** | **Qual Mark** | **Exam Hours** | **Ass't Group** | **Alt Reass't**
---|---|---|---|---|---|---
001 | Report | 50 | | | |
002 | Exam (Final) | 50 | | 2 | |

#### Pre-Requisites

- 

#### Co-Requisites

- 

#### Excluded Combinations

- 

#### Guided Independent Study: Indicative Activities

Reading for lectures, reviewing/making deeper lecture notes having followed up reading, background laboratory work, supporting reading for course work.

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Last Published: 2 December 2021
Module Specification

GY3435  Water Quality Processes and Management

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 1
Occurrence: E
Coordinator: Mick Whelan
Mark Scheme: UG Module Mark Scheme

No. Assessment Description Weight % Qual Mark Exam Hours Ass't Group Alt Reass't
001 Computer Modelling Assignment 50
002 Coursework 2 (Final) 50

Student Workload (hours)
Synchronous Lectures
Synchronous Small Group Teaching
Synchronous Practical Classes/Workshops/Professional Placements 9
Synchronous Other 22
Asynchronous Lectures/Presentations 12
Asynchronous Other 11
Guided Independent Study 96
Total Module Hours 150

Intended Learning Outcomes
On successful completion of the module, students should be able to:- Demonstrate an understanding of the processes controlling surface and groundwater quality – particularly when these systems receive point- and diffuse-source pollution.
- Demonstrate an awareness of water quality standards for different water uses (e.g. drinking water, ecological quality) and of the legal frameworks within which such standards are applied.
- Apply and correctly interpret simple water quality models for assessing pollutant concentrations in surface waters receiving waste water from point sources
- Identify appropriate management strategies which can be applied to different pollutant types and demonstrate an understanding of why different approaches are required for different pollutants

Teaching and Learning Methods
The bulk of teaching will be through the medium of lectures. Additionally, there may be a one 1-day field excursion (waste water treatment plant and sustainable urban drainage), one ½ day (4 hour) sampling trip and one ½ day (3 hour) laboratory practical class for analysis of samples in the laboratory (3 hours).

Assessment Methods
-

Pre-Requisites
-

Co-Requisites
-

Excluded Combinations
-

Guided Independent Study: Indicative Activities
Reading selected from distributed list and supplemented with additional material. Course work will require some independent investigative work using maps and web-based literature, as well as accessing the primary literature. Students will also need to spend time revising for the examination.
Module Specification

GY3437  The Biosphere in the Earth System

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 2
Occurrence: E
Coordinator: Jorg Kaduk
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

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No.  Assessment Description      Weight %  Qual Mark  Exam Hours  Ass't Group  Alt Reass't

001  Written Practical Report    75         |
002  Essay (Final)               25         1          |

Intended Learning Outcomes
On successful completion of the module, students should be able to:
- Relate certain types of biosphere-atmosphere interactions to particular biomes
- Evaluate the role of different drivers of biospheric processes
- Explain a range of feedbacks between the biosphere and other components of the Earth system
- Evaluate the role of atmosphere-biosphere interactions in the climate system
- Explain the role of carbon dioxide and photosynthesis in biosphere-atmosphere interactions

Teaching and Learning Methods
Lectures, Seminars, Laboratory and computer Practical Classes, Surgeries, Directed Reading, Field Visits, Independent Research; Independent Study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Directed reading, project supervision, problems
Module Specification

GY3438  River Dynamics

Academic Year: 2021/2
Module Level: Year 3
Scheme: UG
Department: Geography
Credits: 15

Period: Semester 2
Occurrence: E
Coordinator: Mark Powell
Mark Scheme: UG Module Mark Scheme

Student Workload (hours)

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<td>Synchronous Small Group Teaching</td>
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</tr>
<tr>
<td>Synchronous Practical Classes/Workshops/Professional Placements</td>
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<tr>
<td>Synchronous Other</td>
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<tr>
<td>Asynchronous Lectures/Presentations</td>
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<tr>
<td>Guided Independent Study</td>
<td>117</td>
</tr>
<tr>
<td>Total Module Hours</td>
<td>150</td>
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</tbody>
</table>

Intended Learning Outcomes

On successful completion of the module, students should be able to:
- explain the dynamics of fluvial processes operating in alluvial rivers and their morphological and sedimentological consequences;
- define flow resistance and its various sources and apply simple flow resistance models to estimate hydraulic parameters;
- critically evaluate models of bedload sediment transport; describe factors controlling the processes and rates of bank erosion;
- explain some how feedbacks between the form of the channel, the bed of the channel and the flow within the channel govern channel evolution and change

Teaching and Learning Methods
Lectures, Workshops, Independent study, Tutorials, Guided Study

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities
Guided reading, numerical analyses

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GY3439  Understanding the Tropical Forests of SE Asia

Student Workload (hours)

<table>
<thead>
<tr>
<th>Activity</th>
<th>Hours</th>
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<td>Asynchronous Other</td>
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<td>Guided Independent Study</td>
<td>107</td>
</tr>
<tr>
<td>Total Module Hours</td>
<td>150</td>
</tr>
</tbody>
</table>

Intended Learning Outcomes

On successful completion of the module, students should be able to:

- Understand the role that tropical forests in SE Asia play in the physical environment (such as the carbon cycle) and in the human social environment (development and livelihood)
- Gain experience using some of the tools that are available to observe, measure and understand processes that exist in the tropical forests of SE Asia
- Understand the influence of geographical research on policy and development issues in the region

Teaching and Learning Methods

Lectures, seminars, tutorials, computer based practicals

Assessment Methods

Pre-Requisites

Co-Requisites

Excluded Combinations

Guided Independent Study: Indicative Activities

Reading, Literature review, satellite image processing

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