



**Swansea University
Prifysgol Abertawe**

**FACULTY OF SCIENCE AND
ENGINEERING**

**UNDERGRADUATE STUDENT
HANDBOOK**

YEAR 2 (FHEQ LEVEL 5)

**BSC ENVIRONMENTAL SCIENCE AND THE CLIMATE
EMERGENCY**

UNDERGRADUATE PROGRAMMES

**SUBJECT SPECIFIC
PART TWO OF TWO
MODULE AND COURSE STRUCTURE
2023-24**

DISCLAIMER

The Faculty of Science and Engineering has made all reasonable efforts to ensure that the information contained within this publication is accurate and up-to-date when published but can accept no responsibility for any errors or omissions.

The Faculty of Science and Engineering reserves the right to revise, alter or discontinue degree programmes or modules and to amend regulations and procedures at any time, but every effort will be made to notify interested parties.

It should be noted that not every module listed in this handbook may be available every year, and changes may be made to the details of the modules. You are advised to contact the Faculty of Science and Engineering directly if you require further information.

The 23-24 academic year begins on 25 September 2023

Full term dates can be found [here](#)

DATES OF 23-24 TERMS

25 September 2023 – 15 December 2023

8 January 2024 – 22 March 2024

15 April 2024 – 07 June 2024

SEMESTER 1

25 September 2023 – 29 January 2024

SEMESTER 2

29 January 2024 – 07 June 2024

SUMMER

10 June 2024 – 20 September 2024

IMPORTANT

Swansea University and the Faculty of Science of Engineering takes any form of **academic misconduct** very seriously. In order to maintain academic integrity and ensure that the quality of an Award from Swansea University is not diminished, it is important to ensure that all students are judged on their ability. No student should have an unfair advantage over another as a result of academic misconduct - whether this is in the form of **Plagiarism, Collusion** or **Commissioning**.

It is important that you are aware of the **guidelines** governing Academic Misconduct within the University/Faculty of Science and Engineering and the possible implications. The Faculty of Science and Engineering will not take intent into consideration and in relation to an allegation of academic misconduct - there can be no defence that the offence was committed unintentionally or accidentally.

Please ensure that you read the University webpages covering the topic – procedural guidance [here](#) and further information [here](#). You should also read the Faculty Part One handbook fully, in particular the pages that concern Academic Misconduct/Academic Integrity.

Welcome to the Faculty of Science and Engineering!

Whether you are a new or a returning student, we could not be happier to be on this journey with you.

At Swansea University and in the Faculty of Science and Engineering, we believe in working in partnership with students. We work hard to break down barriers and value the contribution of everyone.

Our goal is an inclusive community where everyone is respected, and everyone's contributions are valued. Always feel free to talk to academic, technical and administrative staff, administrators - I'm sure you will find many friendly helping hands ready to assist you. And make the most of living and working alongside your fellow students.

During your time with us, please learn, create, collaborate, and most of all – enjoy yourself!

Professor David Smith
Pro-Vice-Chancellor and Executive Dean
Faculty of Science and Engineering



Faculty of Science and Engineering	
Pro-Vice-Chancellor and Executive Dean	Professor David Smith
Head of Operations	Mrs Ruth Bunting
Associate Dean – Student Learning and Experience (SLE)	Dr Laura Roberts
School of Biosciences, Geography and Physics	
Head of School	TBC
School Education Lead	Dr Wendy Harris and Dr Sarah Roberts
Head of Geography	Dr Kevin Rees
Geography Programme Director	Dr Joanne Maddern
Year Coordinators	Year 0 – Dr Kath Ficken Year 1 – Dr Kath Ficken Year 2 – Dr Nick Felstead Year 3 – Dr Keith Halfacree PGT – Dr Iain Robertson

STUDENT SUPPORT

The Faculty of Science and Engineering has two **Reception** areas - Engineering Central (Bay Campus) and Wallace 223c (Singleton Park Campus).

Standard Reception opening hours are Monday-Friday 8.30am-4pm.

The **Student Support Team** provides dedicated and professional support to all students in the Faculty of Science and Engineering. Should you require assistance, have any questions, be unsure what to do or are experiencing difficulties with your studies or in your personal life, our team can offer direct help and advice, plus signpost you to further sources of support within the University. There are lots of ways to get information and contact the team:

Email: studentsupport-scienceengineering@swansea.ac.uk (Monday–Friday, 9am–5pm)

Call: +44 (0) 1792 295514 (Monday-Friday, 10am–12pm, 2–4pm).

Zoom: By appointment. Students can email, and if appropriate we will share a link to our Zoom calendar for students to select a date/time to meet.

The current student **webpages** also contain useful information and links to other resources:

<https://myuni.swansea.ac.uk/fse/>

READING LISTS

Reading lists for each module are available on the course Canvas page and are also accessible via <http://ifindreading.swan.ac.uk/>. We've removed reading lists from the 23-24 handbooks to ensure that you have access to the most up-to-date versions.

We do not expect you to purchase textbooks, unless it is a specified key text for the course.

THE DIFFERENCE BETWEEN COMPULSORY AND CORE MODULES

Compulsory modules must be **pursued** by a student.

Core modules must not only be **pursued**, but also **passed** before a student can proceed to the next level of study or qualify for an award. Failures in core modules must be redeemed.

Further information can be found under “Modular Terminology” on the following link -

<https://myuni.swansea.ac.uk/academic-life/academic-regulations/taught-guidance/essential->

[info-taught-students/your-programme-explained/](#)

Year 2 (FHEQ Level 5) 2023/24
Environmental Science and the Climate Emergency
 BSc Environmental Science and the Climate Emergency[F770]
 BSc Environmental Science and the Climate Emergency with a Foundation Year[F771]
 BSc Environmental Science and the Climate Emergency with a Year Abroad[F772]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
BIO249 Introduction to field ecology 15 Credits Dr SC Hocking/Dr AP Devine/Dr PJ Neyland/Dr GR Thomas	BIO232 Plant Ecology 15 Credits Dr PJ Neyland/Dr AP Devine/Prof CA Froyd
Total 120 Credits	

Optional Modules

Choose exactly 20 credits

GEC277 is the welsh equivalent of GEG277

GEC277	Dulliau ac Ymagweddau Daearyddol	Dr RH Meara/Dr A Closs Stephens	TB1	20
GEG277	Geographical Methods and Approaches	Dr KJ Ficken/Prof SH Doerr/Dr KH Halfacree/..	TB1	20

And

Choose exactly 20 credits

GEC278 is the welsh equivalent of GEG278

GEC278	Sgiliau Dadansoddi Data a Pharatoi Traethawd Hir	Dr A Closs Stephens/Dr RH Meara	TB2	20
GEG278	Data Analysis and Dissertation Preparation Skills	Dr NJ Felstead/Dr A Closs Stephens/Dr KJ Ficken/..	TB2	20

And

Choose exactly 20 credits

Scilly Isles is the allotted trip for Environmental Science students

GEG252SI	Geographical Fieldwork Skills: Isles of Scilly	Dr E Urbanek/Dr CJT Ladd/Dr MJ Thomas/..	TB2	20
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And

Choose exactly 20 credits

GEC276 is the welsh equivalent of GEG276

GEC276	Systemau Gwybodaeth Ddaearyddol	Dr RH Meara	TB1	20
GEG276	Introduction to Geographic Information Systems	Prof AJ Luckman	TB1	20

And

Choose exactly 10 credits

GE-200	Professional Development and Career Planning	Miss VV Wislocka/Miss VV Wislocka	TB1	0
GEG211	Glacial Environments	Dr J Hiemstra	TB1	10
GEG230	Social Geographies	Prof SV Shubin	TB1	10
GEG236	Earth from Space: Monitoring Global Environmental Change	Prof PRJ North	TB2	10
GEG251	Political Geographies	Dr A Closs Stephens	TB1	10
GEG273	Geographies of Climate Action and Activism	Dr AL Pigott	TB1	10
GEG283	Sustainable Land Management	Dr E Urbanek/Prof SH Doerr	TB1	10

Year 2 (FHEQ Level 5) 2023/24
Environmental Science and the Climate Emergency
 BSc Environmental Science and the Climate Emergency with a Year in Industry[F773]

Compulsory Modules

Semester 1 Modules	Semester 2 Modules
BIO249 Introduction to field ecology 15 Credits Dr SC Hocking/Dr AP Devine/Dr PJ Neyland/Dr GR Thomas	BIO232 Plant Ecology 15 Credits Dr PJ Neyland/Dr AP Devine/Prof CA Froyd
GE-200 Professional Development and Career Planning 0 Credits Miss VV Wislocka/Miss VV Wislocka	
Total 120 Credits	

Optional Modules

Choose exactly 20 credits

GEC277 is the welsh equivalent of GEG277

GEC277	Dulliau ac Ymagweddu Daearyddol	Dr RH Meara/Dr A Closs Stephens	TB1	20
GEG277	Geographical Methods and Approaches	Dr KJ Ficken/Prof SH Doerr/Dr KH Halfacree/..	TB1	20

And

Choose exactly 20 credits

GEC278 is the welsh equivalent of GEG278

GEC278	Sgiliau Dadansoddi Data a Pharatoi Traethawd Hir	Dr A Closs Stephens/Dr RH Meara	TB2	20
GEG278	Data Analysis and Dissertation Preparation Skills	Dr NJ Felstead/Dr A Closs Stephens/Dr KJ Ficken/..	TB2	20

And

Choose exactly 20 credits

Scilly Isles is the allotted trip for Environmental Science students

GEG252SI	Geographical Fieldwork Skills: Isles of Scilly	Dr E Urbanek/Dr CJT Ladd/Dr MJ Thomas/..	TB2	20
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And

Choose exactly 20 credits

GEC276 is the welsh equivalent of GEG276

GEC276	Systemau Gwybodaeth Ddaearyddol	Dr RH Meara	TB1	20
GEG276	Introduction to Geographic Information Systems	Prof AJ Luckman	TB1	20

And

Choose exactly 10 credits

GEG211	Glacial Environments	Dr J Hiemstra	TB1	10
GEG230	Social Geographies	Prof SV Shubin	TB1	10
GEG236	Earth from Space: Monitoring Global Environmental Change	Prof PRJ North	TB2	10
GEG251	Political Geographies	Dr A Closs Stephens	TB1	10
GEG273	Geographies of Climate Action and Activism	Dr AL Pigott	TB1	10
GEG283	Sustainable Land Management	Dr E Urbanek/Prof SH Doerr	TB1	10

BIO232 Plant Ecology

Credits: 15 Session: 2023/24 January-June

Pre-requisite Modules: BIO111

Co-requisite Modules:

Lecturer(s): Dr PJ Neyland, Dr AP Devine, Prof CA Froyd

Format: In person lectures (~16 hours), computer practicals (2 hours), field trips (8 hours) and drop-in sessions. Contact Hours will be delivered through a blend of live activities on-campus.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. In person lectures (~16 hours), computer practicals (2 hours), field trips (8 hours) and drop-in sessions. Contact Hours will be delivered through a blend of live activities on-campus. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

Composite, lectures and practicals

Module Aims: This module provides a holistic approach to plant ecology, including both classical ecological theory and practical surveying techniques. Students will become familiar with six major themes; plant formations and biomes, synecology, autecology, plant geography, paleoecology and modern plant ecology. Students will also be trained in plant taxonomy, field surveying techniques, data analysis and report writing that complement a future career in ecology, conservation or consultancy

Module Content:

This module will be taught holistically, adopting both a classical approach, which introduces students to plant ecological theory, together with a practical approach, which will impart students with transferable skills that are necessary for a career in ecology. The syllabus will be split into six major themes:

1. Plant formations and global vegetation patterns

- Biomes, climate and plant distribution, productivity and reproduction, UK habitats

2. Synecological studies

- Succession (sand dune and salt marsh), Clements and Gleason, plant communities and phytosociology, Braun Blanquet, National Vegetation Classification, Phase 2 community surveys, bryophyte communities

3. Autecological studies

- Clapham and the Flora of the British Isles, comparative plant ecology; a functional approach (Grime), plant ecology data bases (e.g. Fitter), Ellenberg indicator values, Biological Flora of the British Isles, autecology of individual species

4. Plant Geography

- Soils, distribution maps, distribution patterns (endemic versus disjunct), biogeographical elements

5. Palaeoecology

- Long-term vegetation dynamics of the continents, geologic timescales and ice ages, Holocene (last 11,000 years) history of the British flora, palaeoecological methodologies (palynology, chronology, sediments, proxies), tropical forest stability, human impact, natural disturbance, applications of long-term ecological information to conservation

6. Modern themes in plant ecology

- Invasive species, identification, legislation and management

Practicals

- Field sampling techniques and quantitative vegetation data collection
- Taxonomy and identification - excursion to National Botanic Garden Wales
- PC data analysis workshop

Intended Learning Outcomes: At the end of the module students will be able to:

LO1) Recognise plant formations and biomes

LO2) Classify important UK habitats

LO3) Compare and contrast synecology (plant communities) and autecology (single species)

LO4) Describe plant biogeography and distribution patterns

LO5) Describe history of the British flora and paleoecology

LO6) Undertake ecological surveys; interpret and analyse ecological data and produce a professional report

LO7) Outline modern plant ecology: identification, legislation and management of invasive species

Assessment: Examination 1 (50%)
Coursework 1 (20%)
Coursework 2 (30%)

Assessment Description: 50% examination (2 hours; 30 MCQ plus one essay question)

50% coursework including:

CW1 Presentation/posters/scrapbook - plant identification, distribution and conservation (40% of coursework mark)

CW2 Woodland plant communities - ecological report, data analysis and interpretation data presentation (60% of coursework mark)

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Formative written feedback on coursework.

Contact with lecturer as required.

Summative mark for exams.

Failure Redemption: Re-submission of coursework, re-sit of examination

Reading List: O. W. Archibold author., Ecology of world vegetation / O.W. Archibold., London : Chapman & Hall, 1995.ISBN: 9780412443008

Gurevitch, Jessica, author., Scheiner, Samuel M., 1956- author.; Fox, Gordon A., 1952- author., The ecology of plants, Sinauer Associates, is an imprint of Oxford University Press, 2021.ISBN: 9781605358291

Crawley, Michael J., Plant ecology / edited by Michael J. Crawley., Blackwell Scientific., 1997.ISBN: 0632036397

J. Philip Grime (John Philip), J Hodgson (John), 1937-; Roderick Hunt 1945-, Comparative plant ecology : a functional approach to common British species / J.P. Grime, J.G. Hodgson and R. Hunt., Castlepoint Press, 2007.ISBN: 9781897604304

Neil Roberts 1953-, Holocene : an environmental history / Neil Roberts., Chichester, England : Wiley Blackwell, 2014.ISBN: 9781405155212

K. J. Willis author., J. C. McElwain author., The evolution of plants / K.J. Willis, J.C. McElwain., Oxford : Oxford University Press, 2014.ISBN: 9780199292233

J. S. Rodwell editor.; C. D. Pigott contributor., British plant communities. Volume 1, Woodlands and scrub / J. S. Rodwell, editor ; C. D. Pigott [and nine others], contributor ; for the Nature Conservancy Council., Cambridge : Cambridge University Press, 1991.ISBN: 1107099560

J. S Rodwell; C.D Pigott, British plant communities. Vol.1, Woodlands and scrub ; J. S. Rodwell (editor) ; C.D.Pigott ... [et al.] for the Nature Conservancy Council., Cambridge University Press, 1991.

J. S Rodwell; Joint Nature Conservation Committee (Great Britain), British plant communities. Vol. 2, Mires and heaths / J.S. Rodwell (editor) ; C.D. Pigott [and others] for the UK Joint Nature Conservation Committee., Cambridge University Press, 1998.ISBN: 9780521627207

Rodwell, J. S., Pigott, C. D., British plant communities. Vol.2, Mires and heaths ; J.S. Rodwell (editor) ; C.D. Pigott ... [et al.] for the UK Joint Nature Conservation Committee., Cambridge University Press., 1991.ISBN: 0521391652

Pigott, C.D., Rodwell, J. S., British plant communities. Vol.3, Grasslands and montane communities ; edited by J S Rodwell., Cambridge University Press., c1992..

Rodwell, J. S., Pigott, C. D., British plant communities. Vol.4, Aquatic communities, swamps and tall-herb fens ; J.S. Rodwell (editor), C.D. Pigott et al for the U.K. Joint Nature Conservation Committee., Cambridge University Press., 1995.ISBN: 0521391687

J. S. Rodwell editor.; C. D. Pigott contributor.; D. A. Ratcliffe contributor.; A. J. C. Malloch contributor.; H. J. B. Birks contributor.; M. C. F. Proctor contributor.; D. W. Shimwell contributor.; J. P. Huntley contributor.; E. Radford contributor.; M. J. Wigginton contributor.; P. Wilkins contributor.; Joint Nature Conservation Committee (Great Britain), British plant communities. Volume 5, Maritime communities and vegetation of open habitats / J.S. Rodwell (editor) ; C.D. Pigott, D.A. Ratcliffe, A.J.C. Malloch, H.J.B. Birks, M.C.F. Proctor, D.W. Shimwell, J.P. Huntley, E. Radford, M.J. Wigginton, P. Wilkins for the U.K. Joint Nature Conservation Committee., Cambridge : Cambridge University Press, 2000.ISBN: 9780521391672

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

Normally available to elective, visiting or exchange students. Please note that any failures are redeemed during the August resit period, so you must ensure your availability.

BIO249 Introduction to field ecology

Credits: 15 **Session:** 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr SC Hocking, Dr AP Devine, Dr PJ Neyland, Dr GR Thomas

Format: Five day residential field based practicals
Contact Hours will be delivered through a blend of field trips, live activities, online and on-campus

Delivery Method: Field based practicals, lectures, demonstrations, workshops

Module Aims: This field course comprises practical work employing ecological techniques appropriate to sample biodiversity and environmental parameters from a range of terrestrial and freshwater habitats (freshwater systems, woodlands, sand dunes). You will learn techniques for the identification of species, practice recording accurate field notes, and gain experience in the analysis and presentation of ecological data. Furthermore, you will be able to recognise different British temperate wildlife, habitats and indicator species associated with them.

This five-day course will be residential and delivered in Stackpole National Trust Field centre in September.

Module Content: Prior to undertaking the field course asynchronous activities have been provided on Canvas;

Introduction to UK Biodiversity:

- Geological Factors that Influence UK habitats
- Introduction to UK habitats
- Introduction to UK terrestrial vertebrates

Field course syllabus:

Woodland ecology and sampling techniques
Freshwater ecology and sampling techniques
Sand dune/coastal ecology and sampling techniques
Wild plant identification

Workshops:

Bat ecology
Careers in ecology
Experimental design

Intended Learning Outcomes: At the end of the module the student will:

- 1) Identify, describe and discuss a range of different UK temperate habitats, their associated biological diversity and wildlife
- 2) Work as a team and an individual to collect ecological field data using appropriate sampling techniques and be able to demonstrate, discuss and evaluate these techniques thereafter
- 3) Employ a range of employer relevant field techniques to accurately identify species such as dichotomous keys and field guides
- 4) Observe and record key scientific information on habitat and species features in a comprehensive field book
- 5) Analyse, present, interpret and appraise ecological data and synthesis into a comprehensive report.

Assessment:
Coursework 1 (30%)
Coursework 2 (30%)
Coursework 3 (40%)

Assessment Description: Coursework 1: Field notebook
Coursework 2: Grassland or Woodland Infographic
Coursework 3: Freshwater Report

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Students will be provided with individual electronic feedback on submitted field reports and notebooks. There will also be a feedback session on campus in Semester 1 for the field notebooks

Failure Redemption: Resubmission of failed coursework or alternative assessment for the field notebook

Reading List: Sutherland, William J, Ecological census techniques : a handbook / edited by William J. Sutherland., Cambridge University Press, 2006.ISBN: 0521606365
Oliver Rackham author, Woodlands / Oliver Rackham., London : William Collins, 2015.ISBN: 9780008156916
Giller, Paul S; Malmqvist, Bjorn; University of Oxford, The biology of streams and rivers / Paul S. Giller and Bjorn Malmqvist., Oxford University Press, 1998.ISBN: 0198549776
Christer. Bronmark, Lars-Anders Hansson, The biology of lakes and ponds / Christer Bronmark, and Lars-Anders Hansson., Oxford University Press, 2005.ISBN: 9780198516132
Elizabeth A. C. Price (Elizabeth Anne Clewett), Lowland grassland and heathland habitats / Elizabeth A.C. Price ; illustrations by Jo Wright., Routledge, 2003.ISBN: 9780415187633

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online, on-campus and in the field.

This is a Year 2 Biosciences module which is compulsory for biology students and will be held in September 2023 and will involve a residential field course to Stackpole National Trust Field Center.

The course is not open to visiting or exchange students due to the time of delivery. The course is run out of term time in September

GE-200 Professional Development and Career Planning

Credits: 0 Session: 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Miss VV Wislocka, Miss VV Wislocka

Format: 6 hours consisting of a mix of podcasts, recorded lectures and Zoom sessions and optional 1-2-1 meetings and weekly drop-in sessions. Prior to the change it was 6 hours of face to face delivery via PC labs, and a 1-2-1 meeting where applicable / requested.

Delivery Method: These modules are delivered through online resources, scheduled Zoom sessions and 1-2-1 meetings. There is self-directed learning required using online resources provided.

Module Aims: This module is a mandatory module for all students who have enrolled (or transferred) onto the Science Industrial Placement Year but is also available to all other Geography students. The module focuses on the underpinning and fundamental requisites required to gain, enter and progress through a successful career. Learners will be introduced to (a) sourcing placements, CV writing, and application techniques; (b) Interview techniques, how to pitch yourself and be successful; (c) workplace fundamentals and IP awareness, behaviors and expectations; and, (d) Key employability skills; getting the most from your job or placement.

Module Content: The module will focus on the key requirements to gain and be successful whilst on a placement. Directed and self-directed activity will address the following topics:

- 1) Science Industrial Placements - What they are, how to search and how to apply.
- 2) CV writing, cover letters and application processes.
- 3) Assessment centres, interview techniques and a mock interview.
- 4) Recognizing and developing employability skills.
- 5) reflecting and maximising your placement experience.
- 6) one to one meeting with careers and employability officers.

Intended Learning Outcomes: By the end of this module, students will be able to:

- 1) Be aware of and possess the essential skills needed to secure placement opportunities; alongside having the skills to apply for relevant jobs and placements.
- 2) Have a general understanding of an interview process and what tools and attributes make a good interview.
- 3) Discuss and share what is expected within the workplace including behavioral and professional conduct.
- 4) Identify personal employability skills and how these will be used in a workplace setting.
- 5) Understand the need to reflect and maximise the placement experience in future career decisions.

Assessment: Assignment 1 (100%)

Assessment Description: Students are required to attend all taught sessions and the one to one meeting (if required). This module has no credit attached. However to ensure engagement with the content a compulsory quiz will be added in session 5. Students who do not attend and have no valid reason will not be permitted to continue on a Science Industrial Placement Year programme of study.

Moderation approach to main assessment: Not applicable

Assessment Feedback: N/A

However feedback on progress and the progression through the module will be provided in the one to one mandatory meeting and MCQ quiz.

Failure Redemption: Successful completion of this module depends upon satisfactory attendance at, and engagement with, all sessions. Therefore there will normally be no opportunity to redeem failure. However, special provision will be made for students with extenuating or special circumstances.

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

The module will focus on the key requirements to gain and be successful whilst on a placement or in work. Directed and self-directed activity will address the following topics:

- 1) Science Industrial Placements - What they are, how to search and how to apply.
- 2) CV writing, cover letters and application processes.
- 3) Assessment centres, interview techniques and a mock interview.
- 4) Recognizing and developing employability skills.
- 5) reflecting and maximising your placement experience.
- 6) one to one meeting with careers and employability officers.

GEC276 Systemau Gwybodaeth Ddaearyddol

Credits: 20 Session: 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr RH Meara

Format: 11 hours lectures
22 hours computer lab exercises

Delivery Method: Lecture and computer practical

Module Aims: A Geographic Information System (GIS) is a computer-based technology for solving problems of a geographical nature – i.e. involving spatial relationships between people, places and objects. It can be applied to a wide range of disciplines within geography and has developed to provide a means to quickly and professionally produce maps from geospatial data. This module provides a basic grounding in GIS from the nature of spatial information, through the use of GIS in social and physical geography contexts, to the application of computers to solving complex geographical problems. Most importantly, it allows hands-on experience in using Quantum GIS (QGIS), the leading open-source GIS software package, and therefore provides a valuable skill for research and the for workplace.

Module Content: 1. Module introduction
2. A digital model of the real world
3. Comparing raster and vectors data models
4. Coordinates and geographic reference systems
5. Geographic presentation and map design
6. GIS data sources and formats
7. Digital land surface topography
8. The Global Positioning System (GPS)
9. Route-finding in a network
10. The future of GIS

Intended Learning Outcomes: • A broad understanding of the purpose and scope of Geographical Information Systems

- An appreciation of the way in which geographical entities can be represented in a computer
- A critical awareness of the increasing role of GIS in government, commerce and science
- The ability to use QGIS software to explore and analyse a range of geospatial data
- The ability to present geospatial data as a well constructed and complete map
- A basic understanding of GIS-related technologies such as route-finding and GPS
- An appreciation of the future direction of GIS in geography and beyond

All marking will be carried out on-line

Assessment: Coursework 1 (20%)
Coursework 2 (30%)
Coursework 3 (20%)
Coursework 4 (30%)

Assessment Description: Coursework 1: Map figure with caption using given datasets.

Project: Series of maps and captions to present and justify the best location for a windfarm in a region of Wales.

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Students will receive feedback on each piece of coursework within 3 weeks of the submission deadline.

Each student will receive individual comments on their work.

All feedback will be provided online

Failure Redemption: Resubmit failed components

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

Nid yw ar gael i fyfyrwyr ymweld a chyfnwid.

Available to visiting and exchange students.

GEC277 Dulliau ac Ymagweddau Daearyddol

Credits: 20 Session: 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr RH Meara, Dr A Closs Stephens

Format: Lectures: 11 hours
Practical Classes: 21 hours (desk and field based)

Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

Cyflwynir y modiwl craidd hwn drwy gyfuniad o ddarlithoedd a sesiynau ymarferol (gan gynnwys rhywfaint o waith grp) ar Gampws Singleton ac mewn safleoedd maes lleol amrywiol. Caiff myfyrwyr ddewis o'r amrywiaeth o brosiectau sydd o ddiddordeb iddynt.

This core module will be delivered through a combination of lectures and practical sessions (including some group work) on Singleton campus and at various local field sites. Students will be able to select from the range of projects that interest them.

Module Aims:

Mae'r modiwl 20 credyd craidd hwn yn cyflwyno'r amrywiaeth o ymagweddau at Ddaearyddiaeth Ddynol a Ffisegol a geir, gan ddarparu trosolwg o'r prif ddulliau a ddefnyddir yn y ddisgyblaeth. Cyflwynir y paradeimau hyn a rhoddir cyfle i chi bwysu a mesur pa fathau o ddulliau sy'n cyd-fynd â'r ymagweddau daearyddol hyn. Mae'r modiwl yn cyflwyno dulliau data allweddol a'u gwreiddiau damcaniaethol a bydd cyfle i 'ymarfer' y dulliau allweddol hyn mewn gweithdai estynedig – yn yr ystafell ddosbarth ac yn y maes.

This core 20 credit module introduces the variety of approaches to Human and Physical Geography that exist, providing an overview of the key methods used in the discipline. These paradigms will be introduced and then you are given the opportunity to 'think through' what kinds of methods chime with these geographical approaches. The module introduces key data methods and their theoretical roots, with an opportunity to 'practice' these key methods extended workshops - both desk based and in the field.

Module Content:

Mae'r modiwl hwn yn cyflwyno rhai o'r prif dulliau ymchwil a ddefnyddir ar hyn o bryd gan ddaearyddwyr dynol a ffisegol, ynghyd ag ystyriaethau cynllunio ymchwil, damcaniaethol a moesegol. Mae'r modiwl yn cynnwys darlithoedd a hyfforddiant ymarferol a gofynnir i'r myfyrwyr gynnal prosiect ymchwil mewn grwpiau bach ar y diwedd.

Bydd y maes llafur yn cynnwys:

Darlithoedd ar gynllun ymchwil; darlithoedd ar ddata meintiol ac ansoddol; darlithoedd ar foeseg ymchwil; sesiynau ymarferol ar holiaduron ac arolygon; data'r Cyfrifiad a ffynonellau eilaidd; y dull gwyddonol; prosiectau maes daearyddiaeth ffisegol; sgiliau adolygu llenyddiaeth.

This module introduces students to some of the main research methods in currently employed by human and

physical geographers, along with research design, philosophical and ethical considerations. The module includes

lectures and practical training, and culminates in a research project conducted in small-groups. The syllabus will

include:

Research Design lectures;

Quantitative and Qualitative data lectures;

Research Ethics lectures;

Questionnaire surveys practicals;

Census data and secondary sources;

The scientific method;

Physical Geography Field Projects;

Literature Review Skills.

Intended Learning Outcomes:

Dangos ymwybyddiaeth o ymchwil effeithiol, gan gynnwys nodi cwestiwn, nodau ac amcanion ymchwil, cynllun ymchwil a dewis dull ymchwil priodol.

Arddangos gwerthfawrogiad o'r cyd-destunau cymdeithasol amrywiol lle defnyddir dulliau ymchwil mewn Daearyddiaeth Ddynol a'r cyd-destunau amgylcheddol lle defnyddir dulliau ymchwil mewn Daearyddiaeth Ffisegol.

Dangos y gallu i werthuso priodoldeb pob dull mewn cyd-destunau ymchwil gwahanol, boed yn yr ystafell ddsbarth neu yn y maes.

Dangos y gallu i adolygu'r llenyddiaeth mewn maes penodol er mwyn lleoli dull mewn cefndir gwyddonol neu wyddor gymdeithasol benodol.

By the end of this module you should be able to:

Demonstrate an awareness of effective research, including identification of a research question, aims and objectives, a research design and selection of an appropriate research methods.

Exhibit an appreciation of the varying social contexts within which research methods are used in Human Geography

and the environmental contexts within which research methods are used in Physical Geography.

Illustrate the ability to evaluate the appropriateness of each method in different research contexts, whether desk or

field based.

Evidence the ability to review the literature in a chosen field in order to situate a method within a particular scientific

or social science background.

Assessment: Coursework 1 (50%)
Coursework 2 (50%)

Assessment Description:

50% Adolygiad llenyddiaeth ar sail maes astudio a ddewiswyd

50% Portffolio ar sail pynciau prosiect a ddewiswyd

50% Literature review

50% Portfolio based on chosen project topic

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback:

Rhoddir adborth ysgrifenedig parhaus ar asesiadau yn electronig, gan ddefnyddio templed safonol a blwch sylwadau. Darperir adborth yn y dosbarth hefyd, drwy werthuso gan gymheiriaid a'r addysgwr, ar sail cryfderau a gwendidau cyffredin.

Continual assessment feedback is given in writing electronically using a standard rubric and comments box.

Feedback also to be provided in class through peer evaluation and from the instructor on common strengths and weaknesses.

Failure Redemption: Ailsefyll arholiad neu ailgyflwyno gwaith asesiad parhaus, pŷ un bynnag sy'n berthnasol.

Resit examination or resubmit continual assessment whichever is applicable

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

Nid yw ar gael i fyfyrwyr ymweld a chyfnewid.

Not available to visiting and exchange students.

GEC278 Sgiliau Dadansoddi Data a Pharatoi Traethawd Hir

Credits: 20 Session: 2023/24 January-June

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr A Closs Stephens, Dr RH Meara

Format: Darlithoedd/gweithdai: 24 hours

Gwaith maes: 8 awr

Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

Addysgir y modiwl hwn drwy gyfuniad o ddarlithoedd, sesiynau ymarferol a gweithdai cynllunio traethawd estynedig.

This module is to be delivered through a mixture of lectures, practical sessions and dissertation planning workshops.

Module Aims: Mae'r modiwl hwn yn adeiladu ar wybodaeth y myfyrwyr am ddulliau ymchwil gymdeithasol a dulliau amgylcheddol (a addysgir yn GEG277) i lunio cynnig am draethawd estynedig. Mae'r modiwl yn canolbwyntio ar sgiliau allweddol i gynllunio a pharatoi am draethawd estynedig a gyflwynir ar y cyd â'r Ganolfan Llwyddiant Academaidd, megis rheoli amser, meddwl yn greadigol ac yn feirniadol a datblygu ffocws, ysgrifennu cynnig etc. Mae'r modiwl yn canolbwyntio hefyd ar ddadansoddi data ansoddol a meintiol a sut i ddefnyddio data'n effeithiol wrth baratoi am brosiect traethawd estynedig yn y flwyddyn olaf.

This module builds upon student knowledge of social research methods and environmental methods (delivered in GEG277) through to the formulation of a dissertation proposal. The module focuses on key dissertation planning and preparation skills delivered in association with the Centre for Academic Success (CAS) such as time management, creative and critical thinking and developing a focus, writing a proposal etc. The module also focuses on qualitative and quantitative data analysis and how to use data effectively in preparedness for a final year dissertation project.

Module Content: Darlith cyflwyno/paratoi: y pwnc ymchwil, y broses a disgwyliadau

Llunio cwestiwn ymchwil, nodau, amcanion a chynllun ymchwil

Dewis a datblygu eich dulliau casglu data / arolwg / rhannu tasgau mewn grp

Casglu data sylfaenol (gwaith maes mewn grp / sesiwn cymorth a chyngor

Codeiddio a rhannu data sylfaenol /sesiwn cymorth a chyngor

Dadansoddi data meintiol

Dadansoddi data ansoddol

Sesiwn cymorth a chyngor

Llunio a chyflwyno adroddiad ymchwil

Introductory / preparatory lecture: the research topic, process and expectations

Formulation of research question, aims, objectives and research design

Selecting and developing your data collection methods / survey / group division of labour

Primary data collection (group fieldwork) / help and advice session

Codifying and sharing of primary data / help and advice session

Quantitative data analysis

Qualitative data analysis

Help and advice session

Production and submission of research report

Intended Learning Outcomes: Erbyn diwedd y modiwl hwn, dylech allu:

- Dangos ymwybyddiaeth o natur fwriadus a strwythuredig ymchwil effeithiol, gan gynnwys nodi cwestiwn, nodau ac amcanion ymchwil, cynllun ymchwil a dewis dull ymchwil priodol;
- Datblygu cynnig ar gyfer darn o ymchwil ddaearyddol sy'n seiliedig ar gysyniad ar ffurf cynnig traethawd ymchwil;
- Dangos meistrolaeth o amrywiaeth o dechnegau addas ar gyfer dadansoddi data meintioli ac ansoddi;

By the end of this module you should be able to:

- Demonstrate an awareness of the considered and structure nature of effective research, including identification of a research question, aims and objectives, a research design and selection of an appropriate research method;
- Develop a proposal for a conceptually grounded piece of geographical research in the form of a dissertation proposal;
- Show mastery of a range of suitable techniques for the analysis of quantitative and qualitative data;

Assessment:	Coursework 1 (40%) Coursework 2 (40%) Coursework 3 (20%)
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Assessment Description: Gwaith cwrs 1: Prosiect a phoster (ffocws dadansoddi data). 1,500 o eiriau a phoster.

Gwaith cwrs 2: Cynnig am draethawd estynedig (gyda'r opsiwn i gael adborth ffurfiannol ar y drafft cyntaf). 1,500 o eiriau.

Gwaith Cwrs (Dadansoddi data) – 20%

Coursework 1: 1 project+1 poster (data analysis focus). 1,500 words plus poster.

Coursework 2: dissertation proposal (with option of formative feedback on first draft). 1,500 words.

Coursework 3 (Data Analysis)

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Adborth unigol a ddarperir yn electronig, o natur ffurfiannol a chrynodol

Individual typed electronic feedback which is formative and summative.

Failure Redemption: Ailgyflwyno cydrannau yn ôl yr angen.

Resubmit components as required.

Reading List: A. J. Parsons author., Peter Knight 1961- author., How to do your dissertation in geography and related disciplines / Tony Parsons and Peter G. Knight., Milton Park, Abingdon, Oxon ; New York, NY : Routledge, 2015.ISBN: 9781317909200

Kimberley A. Peters, Your human geography dissertation : designing, doing, delivering / Kimberley A. Peters., Thousand Oaks, CA : SAGE, 2017.ISBN: 9781446295205

Linneman, Thomas John, author., Social statistics : managing data, conducting analyses, presenting results, Routledge is an imprint of the Taylor & Francis Group, an informa business, 2022.ISBN: 9781032116235

Danny McCarroll author., Simple statistical tests for geography / Danny McCarroll., Boca Raton, FL : CRC Press is an imprint of the Taylor & Francis Group, an Informa business, 2017.ISBN: 9781498758819

Nicholas Clifford; Meghan Cope; Thomas Gillespie; Shaun French, Key methods in geography / edited by Nicolas Clifford, Meghan Cope, Thomas Gillespie & Shaun French, Sage Publications, 2016.ISBN: 9781446298602

Lury, Celia, editor.; Fensham, Rachel, editor.; Heller-Nicholas, Alexandra, editor.; Lammes, Sybille, editor.; Last, Anglea, editor.; Michael, Mike, editor.; Uprichard, Emma, editor., Routledge handbook of interdisciplinary research methods, Routledge is an imprint of the Taylor & Francis Group, an informa business, 2018 - 2018.ISBN: 9781315714523

Stuart Hall 1932-2014.; Open University., Representation : cultural representations and signifying practices / edited by Stuart Hall., Sage in association with the Open University, 1997.ISBN: 9780761954323

Robin Flowerdew; David Martin 1965 July 18-, Methods in human geography : a guide for students doing a research project / edited by Robin Flowerdew and David Martin., Prentice Hall, 2005.ISBN: 9780582473218

Stephen J. Gale, Peter G Hoare, Quaternary sediments : petrographic methods for the study of unlithified rocks / S. J. Gale and P. G. Hoare., Blackburn Press, 2011.ISBN: 9781932846256

Joseph Holden Prof, author., An introduction to physical geography and the environment / Joseph Holden., Harlow : Pearson Education Limited, 2017.ISBN: 9781292083612

Andrew McGregor, Negotiating Nature: Exploring Discourse through Small Group Research, Blackwell Publishing Ltd, 2005-12-01.ISBN: 00040894

Tim Edensor 1957- editor.; Ares Kalandides editor.; Uma Kothari editor., The Routledge handbook of place / edited by Tim Edensor, Ares Kalandides and Uma Kothari., Abingdon, Oxon : Routledge is an imprint of the Taylor & Francis Group, an informa business, 2020.ISBN: 9780429453267

Kaya Barry editor.; Maria Borovnik editor.; Tim Edensor 1957- editor., Weather : spaces, mobilities and affects / edited by Kaya Barry, Maria Borovnik and Tim Edensor., London ; New York, New York : Routledge, 2021.ISBN: 0367808196

Tim Edensor 1957-, Industrial ruins : spaces, aesthetics, and materiality / Tim Edensor., Berg, 2005.ISBN: 9781845200770

Tim Cresswell author., Place : an introduction / Tim Cresswell., Chichester, West Sussex ; Malden, MA : Wiley Blackwell, 2015.ISBN: 9780470655627

Walter Benjamin 1892-1940., One-way street and other writings / Walter Benjamin ; translators, Edmund Jephcott, Kingsley Shorter., Verso, 1985.ISBN: 086091836X

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

Nid yw'r modiwl yma ar gael i fyfyrwyr cyfnewid na'r rheini sy'n ymweld dros dro.

GEG211 Glacial Environments	
Credits: 10 Session: 2023/24 September-January	
Pre-requisite Modules:	
Co-requisite Modules:	
Lecturer(s): Dr J Hiemstra	
Format:	15 hours lectures and 6 hours of seminars Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.
Delivery Method: This module will employ a blended approach to delivery using the Canvas Digital Learning Platform for live/in-person and self-directed activities, with sessions each week.	
<p>Module Aims: This module provides a comprehensive examination of processes, sediments and landforms associated with glacial activity. It considers aspects of both past (Quaternary) and present-day glacial environments. The module also introduces basic glaciological concepts such as glacier mass balance, transformation of snow to ice, glacier hydrology and glacier thermal regime, and thus provides a foundation for Level 3 module GEG344. The basic glaciological concepts are used to illustrate their implications for ice movement, glacial erosion and glacial deposition, and hence, their role in creating 'glacial' landscapes.</p> <p>Teaching and Learning will be conducted via a combination of lectures and student-led seminars. The module is assessed through a 1-hour examination (1 from 3 essay questions, 50%), a poster (40%) and an individual oral 3-minute poster pitch/presentation (10%).</p>	
<p>Module Content: Growth, development and behaviour of glacier ice and the importance in a global context are introduced (2 hours).</p> <p>Key components of water storage in glacial systems are described followed by an introduction to glacial hydrology and consideration of glacier mass balance and glacier dynamics (5 hours).</p> <p>Adoption of the landsystem-approach for studying ice-marginal and subglacial environments, together with the most important processes, landforms and sediments are considered (3 hours).</p> <p>Processes of glacial erosion are described followed by the resulting landforms, which are considered with respect to scale (2 hours).</p> <p>Glacial depositional landforms are considered according to their orientation with respect to ice flow movement (3 hours).</p> <p>Two 3-hour sessions of student-led presentations.</p>	
Intended Learning Outcomes: At the end of this module the student should be able to:	
<ol style="list-style-type: none"> 1 Identify differences between temperate and cold ice masses in terms of movement characteristics. 2 Identify the different mechanisms of glacial erosion and present a reasoned account as regards their operation. 3 Discuss the form and typical dimensions of features and landforms formed by glacial erosion. 4 Evaluate critically different published views concerning the origins of various glacial erosional forms. 5 Discuss the typical locations, forms and dimensions of glacial depositional landforms. 6 Evaluate critically different published views concerning the origins of various glacial depositional features. 7 Describe the processes involved in the transformation from snow to glacier ice. 8 Identify and discuss the physical processes and factors that control glacier mass balance. 9 Describe in detail the basic principles of glacial hydrology. 10 Identify the role of water in the dynamics of glacier systems. 	
Assessment:	Examination 1 (50%) Coursework 1 (40%) Oral Examination (10%)
Resit Assessment:	Examination (Resit instrument) (100%)

Assessment Description: One-hour, end-of-term examination. One from three essay-type answers. Weighting 50%

Coursework 1: poster. Weighting 40%.

Coursework 2: conference-style pitch (3-minute), Weighting 10%

Re-sit examination: two-hour exam, two essay-type answers from six. Weighting 100%.

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Students will receive examination feedback after exams (tutorial session). Continual assessment feedback is given in writing on standard departmental feedback forms. Additional oral feedback available on request.

Failure Redemption: Re-sit examination (2 hours instead of 1).

Reading List: Benn, Douglas I., Evans, David J. A., *Glaciers & glaciation* / Douglas I. Benn and David J. A. Evans., Hodder Arnold,, 2010.ISBN: 9780340905791

David J. A. Evans editor.; Douglas I. Benn editor., *A practical guide to the study of glacial sediments* / edited by David J.A. Evans and Douglas I. Benn., London : Hodder Education, an Hachette UK Company, 2004.ISBN: 0340759593

Bennett, Matthew, Glasser, Neil F., *Glacial geology : ice sheets and landforms* / Matthew R. Bennett and Neil F. Glasser., Wiley-Blackwell,, 2009.ISBN: 9780470516911

Hubbard, Bryn., Glasser, Neil F., *Field techniques in glaciology and glacial geomorphology* / Bryn Hubbard, Neil Glasser., John Wiley & Sons,, c2005..ISBN: 0470844272

Additional Notes: Delivery of both teaching and assessment will include live and self-directed activities on-campus.

Available to visiting and exchange students, who are expected to be in Swansea for the exam.

GEG221 Regional Economic Development

Credits: 10 Session: 2023/24 January-June

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr KG Rees

Format: 18 hours lectures
Contact Hours will be delivered through a blend of on-campus teaching (as permitted) and online learning materials.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

On Campus

Module Aims: This module is concerned with issues of regional economic development and government policy. The module explores the enduring spatial economic inequalities evident across the regions of the United Kingdom and how successive governments have intervened to alleviate these disparities. The ideological debate around whether, and on what basis, governments should intervene in the economy is examined. This debate is exemplified by contrasting the interventionist regional economic policies of post-war Britain which emphasized the mobility of labour and capital (firms), with more contemporary policies which have emphasized endogenous growth within regions through the promotion of entrepreneurship and innovation rather than equality between regions. The module concludes with an exploration and evaluation of policy approaches for the economic development of Wales.

Module Content: Regional economic growth, disparity and intervention

- Introduction: what is Regional Economic Development?
- The North – South Divide: UK regional disparities in historical context
- Contemporary indicators of regional economic disparities in the UK
- How reliable is unemployment as an indicator of regional disparities?
- Causes of spatial economic disparities: theoretical perspectives.
- The case for and against government intervention
- Measuring regional disparities using ONS data

Factor mobility approaches to tackling regional economic disparities:

- Labour mobility policies: “Get on your bike!”
- Capital mobility policies: the Assisted Areas strategy and inward investment

Endogenous approaches to tackling regional economic disparities:

- Entrepreneurship: the key to regional prosperity?
- Innovation: Science park policy
- Industrial Clusters and the role of proximity
- Case study: economic development in Wales

Intended Learning Outcomes: At the end of this module students should be able to:

- discuss alternative explanations of the causes and endurance of spatial inequalities both theoretically and within the context of the UK economy.
- engage in ideological debates concerning government intervention in the economy.
- compare and assess the effectiveness of a selection of policy approaches implemented within the UK aimed at addressing spatial inequalities;
- discuss the strengths and weaknesses of factor (labour and capital) mobility approaches to regional economic development and inequalities;
- illustrate and discuss the merits of economic policies emphasizing endogenous growth by promoting entrepreneurship and innovation.
- demonstrate competence in collecting relevant socio-economic data from the Office of National Statistics website
- utilise relevant data to discuss indicators and influences of regional economic disparities.

Assessment: Examination 1 (50%)
Coursework 1 (50%)

Assessment Description: One hour examination One piece of continual assessment (student choice of poster or seminar)
Moderation approach to main assessment: Moderation by sampling of the cohort
Assessment Feedback: Feedback on the continual assessment submission is provided to each student electronically on Canvas using a rubric and comments on the submission. Each students receives written feedback on their exam submission after the examination results are released.
Failure Redemption: resit examination or resubmit continual assessment, whichever is applicable

Reading List: Armstrong, Harvey., Taylor, Jim., Regional economics and policy / Harvey Armstrong and Jim Taylor., Blackwell., 2000.ISBN: 9780631217138

Andy Pike 1968-, Andrés Rodríguez-Pose author.; John Tomaney 1963- author., Local and regional development / Andy Pike, Andrés Rodríguez-Pose and John Tomaney., London ; New York : Routledge, Taylor & Francis Group, 2017.ISBN: 9781138785724

Philip Cooke (Philip N.), editor.; Martin Heidenreich editor.; Hans-Joachim Braczyk 1942- editor., Regional innovation systems : the role of governance in a globalized world / edited by Philip Cooke, Martin Heidenreich and Hans-Joachim Braczyk., London : Routledge is an imprint of the Taylor & Francis Group, 2004.ISBN: 0415303699

Philip Cooke (Philip N.), editor.; Martin Heidenreich editor.; Hans-Joachim Braczyk 1942- editor., Regional innovation systems : the role of governance in a globalized world / edited by Philip Cooke, Martin Heidenreich and Hans-Joachim Braczyk., London : Routledge is an imprint of the Taylor & Francis Group, 2004.ISBN: 0415303699

Dorling, Daniel., Thomas, Bethan., Bankrupt Britain : an atlas of social change / Daniel Dorling and Bethan Thomas., Policy Press., c2011..ISBN: 9781847427472

McCann, Philip., Modern urban and regional economics / Philip McCann..ISBN: 9780199582006

Peter Hall 1932-2014., Mark Tewdwr-Jones, Urban and regional planning Peter Hall and Mark Tewdwr-Jones., Routledge, 2010.ISBN: 1135173966

Peter Hall 1932-2014., Mark Tewdwr-Jones, Urban and regional planning / Peter Hall and Mark Tewdwr-Jones., Routledge, 2011.ISBN: 9780415566544

Prestwich, Roger., Taylor, Peter., Introduction to regional and urban policy in the United Kingdom / Roger Prestwich and Peter Taylor., Longman., 1990.

Massey, Doreen B., Quintas, Paul., Wield, David., High-tech fantasies : science parks in society, science and space / Doreen Massey, Paul Quintas and David Wield., Routledge., 1992.ISBN: 0415013380

Malecki, Edward J., Technology and economic development : the dynamics of local, regional, and national competitiveness / Edward J. Malecki., Longman., 1997.ISBN: 058227723X

Balchin, Paul N., Sykora, Ludek., Bull, Gregory H., Regional policy and planning in Europe [print and electronic] / Paul Balchin and Ludek Sykora, with Gregory Bull., Routledge., 1999.ISBN: 0415160103

Bennett, R. J., Payne, Diane., Local and regional economic development : renegotiating power under labour / Robert J. Bennett, Diane Payne., Ashgate., c2000..ISBN: 0754615537

Aoyama, Yuko., Murphy, James T., Hanson, Susan., Key concepts in economic geography [print and electronic book]/ Yuko Aoyama, James T. Murphy, Susan Hanson., SAGE., 2011.ISBN: 9781847878953

Yuko Aoyama, James T. Murphy, Susan Hanson., Key concepts in economic geography, SAGE, 2011.ISBN: 9781847878953

Yuko Aoyama, James T. Murphy, Susan Hanson., Key concepts in economic geography, SAGE, 2011.ISBN: 9781847878953

Smith, George Davey., Dorling, Daniel., Shaw, Mary., Poverty, inequality and health in Britain, 1800-2000 : a reader / edited with an introduction by George Davey Smith, Daniel Dorling and Mary Shaw., Policy Press., 2001.ISBN: 186134211X

Williams, Allan M., Hudson, Ray., Divided Britain / Ray Hudson and Allan M. Williams., John Wiley., 1995.ISBN: 0471952044

Gray, C. (1992), Caley, Kevin D., Chell, Elizabeth., Chittenden, Frances., Mason, Colin., Small enterprise development : policy and practice in action / edited by Kevin Caley...[et al.], Published on behalf of UKEMRA [by] Chapman., 1992.ISBN: 1853962155

Glasson, J., Glasson, John., An introduction to regional planning : concepts, theory and practice / [by] John Glasson., Hutchinson., 1978.

Myrdal, Gunnar., Economic theory and under-developed regions / by Gunnar Myrdal., Duckworth., 1957.

Myrdal, Gunnar., Beyond the welfare state : economic planning and its international implications., Bantam books., 1967.

Friedmann, John., Regional development policy : a case study of Venezuela / John Friedmann., M.I.T. Press., 1966.

Martin, Ron, Townroe, P. M., Regional development in the 1990s : the British Isles in transition / edited by Ron Martin and Peter Townroe., J. Kingsley ;, 1992.ISBN: 9780117023659

Gordon L Clark; Maryann P Feldman; Meric S Gertler, The Oxford handbook of economic geography / edited by Gordon L. Clark, Maryann P. Feldman, and Meric S. Gertler ; with the assistance of Kate Williams., Oxford University Press, 2000.ISBN: 9780199250837

Armstrong, H., and Taylor, J, Regional Economics and Policy, Blackwell, 2000.ISBN: 9780631217138

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

Available to visiting and exchange students.

GEG230 Social Geographies

Credits: 10 Session: 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Prof SV Shubin

Format:

Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

Primarily on Campus

Module Aims: This module is an overview of the processes co-constructing space and social relations, providing different ways of understanding our contemporary world and how people live within it. The module explores the field of social geography across different geographical scales, and relationships and interdependencies existing between these scales, creating boundaries and connections. These scales and spaces include the body, the home, community, the street, city and nation. The module emphasizes the multiplicity of approaches, theories and arguments about human life in Social Geography, and the connections and interrelations which exist between different fields of geographical enquiry. This approach focuses on multiple economic, political and cultural interactions in varying contexts, defined via places, power relations and systems of organization and control. It encourages students to be open to this diversity of interpretations and living patterns, and to think critically about different issues related to the co-construction of space and society.

Module Content: Introduction to social geographies

- The body: body as a space
- The body: body in space and time
- The home: space and meanings
- The home: homelessness
- FILM: Thelma and Louise
- Community: lived space
- Community: imagined space
- Institutions: schools and workplace
- The street: experiences and visions
- The street: morality and exclusions
- The city: heterogeneous space
- The rural: meanings, visions, norms
- The rural: space of conflict?
- The nation: identities and nationalism
- The nation: globalization
- Summary and review

Intended Learning Outcomes: By the end of this module students will be able to:

Demonstrate an awareness of and be able to evaluate the different theories and approaches human geographers have employed to make sense of space, place and society

- Explain the ways in which social identities and relations are constituted in and through different spaces at different geographical scales
- Assess the key economic, political and social activities shaping contemporary social geographies
- Demonstrate an awareness of the different ways space and society are represented through texts, discourses, visual images and moving visual texts
- Recognize and discuss the contested and provisional nature of knowledge and understanding
- Understand the diversity of specialized techniques involved in constructing different social geographies

Assessment: Examination 1 (50%)
Coursework 1 (50%)

<p>Assessment Description: Exam 50% of your mark (choice of 1 question out of 3) The final examination (1 hour) is a comprehensive final test: it assesses your knowledge of the subject and ability to convey your ideas. It consists of one essay question from a choice of three. Samples of the essay titles will be made available before the exam.</p>
<p>Essay 50 % of your mark (choice of 1 question out of 3) Not more than 1,500 words</p>
<p>Moderation approach to main assessment: Moderation by sampling of the cohort</p>
<p>Assessment Feedback: Students will receive examination feedback after exams. Continual assessment feedback is given in writing on standard departmental feedback forms.</p>
<p>Failure Redemption: resit examination or resubmit continual assessment whichever if applicable</p>
<p>Reading List: Gill Valentine 1965- author, Social geographies : space and society / Gill Valentine., Harlow : Prentice Hall, 2001.ISBN: 9780582357778 Rachel Pain, Introducing social geographies / Rachel Pain ...[et al.], Arnold, 2001.ISBN: 9780340720066 Ruth Panelli author., Social geographies : from difference to action / Ruth Panelli., London : SAGE, 2004.ISBN: 0761968946</p>
<p>Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.</p>
<p>This module is available to visiting and exchange students, who must be present for the exam.</p>

GEG236 Earth from Space: Monitoring Global Environmental Change

Credits: 10 Session: 2023/24 January-June

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Prof PRJ North

Format: 20 (10 lecture + 10 small-group computer project) Contact Hours will be delivered on-campus.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

Half lecture based and half computer based classes. On campus.

Module Aims: This module introduces the growing role of Earth Observation in Geography, in the context of monitoring global environmental change. Emphasis will be given to practical use of airborne and satellite imagery in a range of geographical applications. In addition to a grounding in the principles of remote sensing, the course will offer in-depth understanding of the use of satellite observations in the study of global change in particular of deforestation and desertification. Practical exercises will teach image processing skills and familiarity with the range of information sources available for remotely sensed imagery.

Module Content: Outline of lecture topics:

Overview and history of Earth Observation in geography.
Principles of airborne remote sensing, focusing on optical imagery and lidar.
Satellite remote sensing, focussing on Landsat imagery.
Methods for interpreting imagery and production of classified maps.
Study of deforestation using remote sensing.
Application to management and monitoring desertification.
Applications to climate change science and environmental modelling.

Example practical sessions:

Analysis of airborne and lidar aircraft imagery.
Familiarisation with different sources of satellite and aircraft imagery.
Image processing using Landsat imagery.
Interpretation and classification of imagery.
Monitoring global vegetation change.

Intended Learning Outcomes: By the end of this module students should be capable of demonstrating:

A broad understanding of the purpose and scope of Earth Observation in Geography.

A critical awareness of the range of modern geographical applications to which remote sensing contributes.

An ability to analyse remotely sensed data using image processing software.

An understanding of the technology behind satellite and aircraft imagery.

Assessment: Coursework 1 (50%)
Coursework 2 (50%)

Assessment Description:

Two items of coursework:
(i) Classification of imagery for land cover mapping
(ii) Global time series analysis

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Coursework assessment feedback is given in writing via Canvas.

Failure Redemption: Resit examination or resubmit continual assessment whichever if applicable.

Reading List: Canada Centre for Remote Sensing, CCRS Remote Sensing Tutorial, Canada Centre for Mapping and Earth Observation, 06/08/2019.

USGS, USGS Earth Explorer.

Greg Asner, EO and Ecology.

UK Land Cover map, CEH.

ENVI User Guide, L3 Harris Geospatial.

Planet - high resolution satellite archive.

Review of satellite data sources.

Lillesand, Thomas M., author., Kiefer, Ralph W., author.; Chipman, Jonathan W., author., Remote sensing and image interpretation, Wiley, 2015.ISBN: 111834328X

Mather, Paul M., Koch, Magaly., Computer processing of remotely-sensed images : an introduction, Wiley-Blackwell, 2011.ISBN: 9780470742389

Campbell, James B., Wynne, Randolph H., Introduction to remote sensing / James B. Campbell and Randolph H. Wynne., Guilford Press,, c2011..ISBN: 9781609181765

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

There are no pre- or co-requisites for this module. Available to visiting or exchange students

Module code reserved by l.hackling on 28/05/2013 11:33:09

GEG251 Political Geographies	
Credits: 10 Session: 2023/24 September-January	
Pre-requisite Modules:	
Co-requisite Modules:	
Lecturer(s): Dr A Closs Stephens	
Format:	
Delivery Method: Lectures	
<p>Module Aims: How do we begin to think about the political world? What difference does Geography make to our understandings of politics? This module will address these questions by engaging with critical and cutting-edge debates in Political Geography as well as related fields. The module will begin by analysing the modern way of understanding world politics as based on a system of sovereign states, which was established alongside the rise of capitalism in Europe and its colonial encounter with the rest of the world. We will explore the dominance of this way of imagining the political world whilst also examining various attempts at thinking space, politics and citizenship differently. This is an exciting time to be studying politics as there are so many examples from the world around us of the strain on the principle of state sovereignty and geographers are especially well placed to explore these tensions and limit points. This course will help guide students to develop a robust understanding of the political world we have inherited and to uncover ways of thinking about other possible worlds.</p>	
<p>Module Content: Lectures: weekly, 2 hours, and to include opportunities for discussion.</p> <ol style="list-style-type: none"> 1. Introduction: Politics, Geography, Citizenship 2. Geographies of Citizenship: Refugees, Migrants and People on the Move 3. Geographies of Citizenship: Sovereignty and Self-Other Encounters 4. Cosmopolitan Citizenship: Security, Identity, Terror 5. Cosmopolitan Citizenship: Citizens, Strangers and the City 6. Affective Citizenship: Nationality, Sovereignty, Atmosphere 7. Affective Citizenship: Neoliberalism, Austerity, Resistance 8. Alternative Political Geographies: Citizens Without Frontiers 9. Alternative Political Geographies: Liberal Democracy and New Solidarities 10. Revision lecture and review of the course. 	
<p>Intended Learning Outcomes:</p> <ul style="list-style-type: none"> · Explain key conceptual and theoretical debates in contemporary academic political geography and be able to apply those to the world around us; · Critically evaluate key concepts in political geography including power, citizenship, space, difference, security, identity, sovereignty, the nation-state, as well as the relationship between them; · Demonstrate a good awareness of cutting edge debates in the academic field of political geography as well as related debates in cultural geography and citizenship studies; · Explain the rationale and consequences of our own positions in relation to political issues and crises taking place in the world; · Explain how our approaches to global politics enable and disable different political possibilities in terms of policy and practice. 	
Assessment:	Examination 1 (50%) Coursework 1 (50%)
<p>Assessment Description: Exam - 1 essay question from a choice of 3 Coursework - summative task</p>	
Moderation approach to main assessment: Moderation by sampling of the cohort	
<p>Assessment Feedback: Feedback of essay Students will receive examination feedback after exams (in February if January exam or start of Level 2 if May/June exam).</p>	
Failure Redemption: Resubmit coursework, or resit the examination, depending on which component failed.	

Reading List: Jenny Edkins editor.; Maja Zehfuss editor., *Global politics : a new introduction* / edited by Jenny Edkins and Maja Zehfuss., Abingdon, Oxon : Routledge is an imprint of the Taylor & Francis Group, an informa business, 2019.ISBN: 9781138060289

Jenny Edkins; Maja Zehfuss, *Global politics : a new introduction* / edited by Jenny Edkins and Maja Zehfuss., Routledge, 2014.ISBN: 9780415684811

Jenny Edkins editor.; Maja Zehfuss editor., *Global politics : a new introduction* / edited by Jenny Edkins and Maja Zehfuss., Routledge, 2019.ISBN: 9781138060289

Doreen B Massey; John Allen 1951-; Philip Sarre, *Human geography today*, Polity Press ; Blackwell Publishers, 1999.ISBN: 9780745621890

Jenny Edkins author., *Change and the politics of certainty* / Jenny Edkins., Manchester, UK : Manchester University Press, 2019.ISBN: 9781526119032

Ursula Le Guin, *Space Crone*.

Jenny Edkins; Maja Zehfuss, *Global politics : a new introduction* / edited by Jenny Edkins and Maja Zehfuss., Routledge, 2014.ISBN: 9780415684811

Roland Bleiker editor., *Visual global politics* / edited by Roland Bleiker., Abingdon, Oxon : Routledge, 2018.ISBN: 9780415726078

Jenny Edkins; Maja Zehfuss, *Global politics : a new introduction* / edited by Jenny Edkins and Maja Zehfuss., Routledge, 2014.ISBN: 9780415684811

Immanuel Maurice Wallerstein 1930-2019., *Race, nation, class : ambiguous identities* / Etienne Balibar and Immanuel Wallerstein., Verso, 1991.ISBN: 0806915425

Michael. Billig, *Banal nationalism* / Michael Billig., Sage, 1995.ISBN: 9780803975255

Painter, Joe, *Prosaic geographies of stateness*, Elsevier Ltd, 2006.ISBN: 09626298

Sara Ahmed 1969-, *The cultural politics of emotion* / Sara Ahmed., Edinburgh University Press, 2004.ISBN: 9780748618477

Closs Stephens, Angharad, *The affective atmospheres of nationalism*, SAGE Publications, 2016-04.ISBN: 14744740

Jenny. Edkins, *Trauma and the memory of politics* / Jenny Edkins., Cambridge University Press, 2003.ISBN: 0521534208

Gilroy, Paul, *After empire : melancholia or convivial culture* / Paul Gilroy., Routledge, 2004.ISBN: 9780415343084

Derek P. McCormack, *Refrains for moving bodies : experience and experiment in affective spaces* / Derek P. McCormack., Durham : Duke University Press, 2013.ISBN: 9780822355052

Derek Gregory 1951-, *The colonial present : Afghanistan, Palestine, and Iraq* / Derek Gregory., Blackwell Pub., 2004.ISBN: 9781577180906

Benedict R. O'G. Anderson (Benedict Richard O'Gorman), 1936-2015., *Imagined communities : reflections on the origin and spread of nationalism* / Benedict Anderson., Verso, 1991.ISBN: 0860915468

Derek Gregory 1951-, *The colonial present : Afghanistan, Palestine, and Iraq* / Derek Gregory., Blackwell Pub., 2004.ISBN: 9781577180906

Claudia Rankine 1963- author, *Citizen : an American lyric* / Claudia Rankine., UK : Penguin Books, 2015.ISBN: 9780141981772

Ghassan Hage author., *White nation : fantasies of white supremacy in a multicultural society* / Ghassan Hage., London : Routledge, 2000.ISBN: 9781136743481

George Yancy and Judith Butler, *What's Wrong With 'All Lives Matter'?*, *The New York Times*, January 12, 2015 9:00 pm.

Ahmed, Sara, *The Promise of Happiness*, Duke University Press, 2010.ISBN: 0822347253

Inderpal. Grewal, *Transnational America : feminisms, diasporas, neoliberalisms* / Inderpal Grewal., Duke University Press, 2005.ISBN: 9780822335443

Jenny Edkins editor.; Maja Zehfuss editor., *Global politics : a new introduction* / edited by Jenny Edkins and Maja Zehfuss., Abingdon, Oxon : Routledge, 2019.ISBN: 9781138060289

Ghassan Hage author., *Is racism an environmental threat?* / Ghassan Hage., Cambridge : Polity, 2017.ISBN: 9780745692265

Ahmed, Sara, *Collective Feelings: Or, the Impressions Left by Others*, SAGE Publications, 2004-04.ISBN: 02632764

David Theo. Goldberg, *The racial state* / David Theo Goldberg., Blackwell Publishers, 2002.ISBN: 0631199217

David Theo Goldberg, *Anatomy of racism* / David Theo Goldberg, editor., University of Minnesota Press, 1990.

Anne McClintock 1954-; Aamir Mufti; Ella Shohat 1959-; *Social Text Collective.*, *Dangerous liaisons : gender, nation, and postcolonial perspectives* / Anne McClintock, Aamir Mufti, and Ella Shohat, editors (for

the Social Text Collective)., University of Minnesota Press, 1997.ISBN: 9780816626496

Hubbard, Phil ; Wilkinson, Eleanor, Welcoming the World? Hospitality, Homonationalism, and the London 2012 Olympics, Wiley, 2015.ISBN: 00664812

Eisenstein, Zillah, The audacity of races and genders: a personal and global story of the Obama election, NBN International, 2009.ISBN: 1848134193

Sherene Razack, Geopolitics, Culture Clash, and Gender After September 11, Social Justice, 2005-01-01.ISBN: 10431578

Joseph Mbembe, Achille, Decolonizing the university: New directions, SAGE Publications, 2016-02.ISBN: 14740222

Jenny Edkins; Maja Zehfuss, Global politics : a new introduction / edited by Jenny Edkins and Maja Zehfuss., Routledge, 2014.ISBN: 9780415684811

Agamben, Giorgio, We Refugees, Taylor & Francis, 1995-06-01.ISBN: 00397709

Nyers, Peter, Emergency or Emerging Identities? Refugees and Transformations in World Order, Sage Publications, 1999-01-01.ISBN: 03058298

Jennifer. Hyndman, Managing displacement refugees and the politics of humanitarianism / Jennifer Hyndman., University of Minnesota Press, 2000.ISBN: 0816690294

Malkki, Liisa H., Speechless Emissaries: Refugees, Humanitarianism, and Dehistoricization, Blackwell Publishing Ltd, 1996-08.ISBN: 08867356

Vicki Squire 1974- author., Post/humanitarian border politics between Mexico and the US : people, places, things / Vicki Squire., Basingstoke ; New York : Palgrave Macmillan, 2015.ISBN: 9781137395887

Squire, Vicki, Divided Seas, Parallel Lives, 2017.ISBN: 07321562

Squire, Vicki, Governing migration through death in Europe and the US: Identification, burial and the crisis of modern humanism, SAGE Publications, 2017-09.ISBN: 13540661

Tazzioli, M, The politics of counting and the scene of rescue Border deaths in the Mediterranean, RADICAL PHILOSOPHY, 2015.ISBN: 0300211X

Michael J Shapiro; Hayward R Alker, Challenging boundaries : global flows, territorial identities / Michael J. Shapiro and Hayward R. Alker, editors., University of Minnesota Press, 1996.ISBN: 0816626995; 9780916626991

Burrell, Kathy ; Horschelmann, Kathrin, Perilous Journeys: Visualising the Racialised "Refugee Crisis", Wiley Subscription Services, Inc., 2019-01.ISBN: 00664812

Mezzadra, S., The right to escape, Ephemera, 2004.

Bridget. Byrne, Making citizens : public rituals and personal journeys to citizenship / Bridget Byrne, senior lecturer in Sociology, University of Manchester, UK., Houndmills, Basingstoke, Hampshire ; New York, NY : Palgrave Macmillan, 2014.ISBN: 9781137003201

Engin F. Isin, Citizens without frontiers, New York : Bloomsbury Academic, an imprint of Bloomsbury Publishing Plc, 2012.ISBN: 9781441185839

Arjun Appadurai 1949-, John Hope Franklin Research Center for African and African-American Documentation., Fear of small numbers : an essay on the geography of anger / Arjun Appadurai., Duke University Press, 2006.ISBN: 9780822338635

Bridget. Byrne, Making citizens : public rituals and personal journeys to citizenship / Bridget Byrne, senior lecturer in Sociology, University of Manchester, UK., Houndmills, Basingstoke, Hampshire ; New York, NY : Palgrave Macmillan, 2014.ISBN: 9781137003201

Open Democracy, Citizens without frontiers.

Elden, Stuart, Jenny Edkins; Maja Zehfuss, Global politics : a new introduction / edited by Jenny Edkins and Maja Zehfuss., Routledge, 2014.ISBN: 9780415684811

Bleiker, R. ; Campbell, D. ; Hutchison, E. ; Nicholson, X., The visual dehumanisation of refugees, 2013-12-01.ISBN: 10361146

Imogen Tyler author., Revolting subjects : social abjection and resistance in neoliberal Britain / Imogen Tyler., Zed Books, 2013.ISBN: 9781848138513

Darling, Jonathan, Asylum and the Post-Political: Domopolitics, Depoliticisation and Acts of Citizenship, Wiley Subscription Services, Inc., 2014-01-01.ISBN: 00664812

McNevin, Anne, Becoming political: asylum seeker activism through community theatre, 2010.

Nyers, Peter, Dueling designs: The politics of rescuing dual citizens, Taylor & Francis Group, 2010-02-01.ISBN: 13621025

Nick Gill, The suppression of welcome, Geographical Society of Finland, 2018-05-01.ISBN: 00150010

Volpp, Leti, The citizen and the terrorist, University of California, Los Angeles, School of Law, 2002-06-01.ISBN: 00415650

Butler, Judith, Precariousness and grievability, Verso, 2015.

Cole, Teju, Unmournable Bodies | The New Yorker, The New Yorker, 2015.

Mamdani, Mahmood, *Good Muslim, Bad Muslim: A Political Perspective on Culture and Terrorism*, Blackwell Publishing Ltd, 2002-09. ISBN: 00027294

Judith Butler 1956-, *Precarious life : the powers of mourning and violence* / Judith Butler., Verso, 2004. ISBN: 1844670058

Stephens, Ac, "Seven million Londoners, one London": National and urban ideas of community in the aftermath of the 7 July 2005 bombings in London, LYNNE RIENNER PUBL INC, 2007. ISBN: 03043754

Wendy Hui Kyong Chun 1969- author., *Updating to remain the same : habitual new media* / Chun, Wendy Hui Kyong., Cambridge, Massachusetts : The MIT Press, 2008. ISBN: 0262333775

Gilroy, Paul, *Multiculture in times of war: an inaugural lecture given at the London School of Economics*, Blackwell Publishing Ltd, 2006-12. ISBN: 00111562

Derek Gregory 1951-, *The colonial present : Afghanistan, Palestine, and Iraq* / Derek Gregory., Blackwell Pub., 2004. ISBN: 9781577180906

Jasbir K. Puar 1967-, *Terrorist assemblages : homonationalism in queer times* / Jasbir K. Puar., Duke University Press, 2007. ISBN: 9780822341147

Closs Stephens, Angharad, 'CHARLIE HEBDO' AND THE POLITICS OF RESPONSE – Society & Space, Society and Space, 2015.

Butler, Judith, *Precariousness and grievability*, Verso, 2015.

Gavan Titley editor.; Des Freedman 1962- editor.; Gholam Khiabany editor.; Aurelien Mondon editor., *After Charlie Hebdo : terror, racism and free speech* / edited by Gavan Titley, Des Freedman, Gholam Khiabany and Aurelien Mondon., London : Zed, 2017. ISBN: 9781783609390

Tickner, J. Ann, *Feminist Perspectives on 9/11*, Oxford University Press (OUP), 2002. ISBN: 15283577

Jenny Edkins; Maja Zehfuss, *Global politics : a new introduction* / edited by Jenny Edkins and Maja Zehfuss., Routledge, 2014. ISBN: 9780415684811

Mbembe, A, *The society of enmity*, RADICAL PHILOSOPHY, 2016. ISBN: 0300211X

Angharad Closs Stephens; Nick Vaughan-Williams, *Terrorism and the politics of response : London in a time of terror* / edited by Angharad Closs Stephens and Nick Vaughan-Williams., Routledge, 2008. ISBN: 9780415609517

Allen, Matthew J ; Bryan, Annie, *Editorial: Remembering the 2005 London bombings: Media, memory, commemoration*, SAGE Publications, 2011-07. ISBN: 17506980

Judith Butler 1956-, *Precarious life : the powers of mourning and violence* / Judith Butler., Verso, 2004. ISBN: 1844670058

Closs Stephens, Angharad ; Hughes, Sarah M ; Schofield, Vanessa ; Sumartojo, Shanti, *Atmospheric memories: Affect and minor politics at the ten-year anniversary of the London bombings*, Elsevier Ltd, 2017-05. ISBN: 17554586

Hosang, Daniel Martinez ; Labennett, Oneka ; Pulido, Laura., *Racial Formation in the Twenty-First Century*, University of California Press, 2012-08-02. ISBN: 9780520273443

Dikec, Mustafa, *HATE*, Society and Space, 2015.

David L. Eng 1967-; David Kazanjian 1967-, *Loss : the politics of mourning* / edited by David L. Eng and David Kazanjian ; with an afterword by Judith Butler., University of California Press, 2003. ISBN: 0520232364

Eriksson, Moa, *Managing collective trauma on social media: the role of Twitter after the 2011 Norway attacks*, Sage Publications Ltd., 2016-04-01. ISBN: 01634437

Closs Stephens, A., Angharad Closs Stephens; Nick Vaughan-Williams, *Terrorism and the politics of response : London in a time of terror* / edited by Angharad Closs Stephens and Nick Vaughan-Williams., Routledge, 2008. ISBN: 9780415609517

Heath-Kelly, Charlotte, *Survivor Trees and memorial groves: Vegetal commemoration of victims of terrorism in Europe and the United States*, Elsevier Ltd, 2018-05. ISBN: 09626298

Ingram, Alan, *Rethinking art and geopolitics through aesthetics: artist responses to the Iraq war*, 2016-01. ISBN: 00202754

Merrill, Samuel, Matthews, Julian (Editor), *Walking together? The mediated performative commemoration of 7/7's tenth anniversary*, SAGE Publications, 2019-10. ISBN: 14648849

Smith, Neil, *Ten years after*, Blackwell Publishing Ltd, 2011-09. ISBN: 00167398

Sumartojo, Shanti, *Commemorative atmospheres: memorial sites, collective events and the experience of national identity*, 2016-10. ISBN: 00202754

Bleiker, R., Roland Bleiker editor., *Visual global politics* / edited by Roland Bleiker., Abingdon, Oxon : Routledge, 2018. ISBN: 9780415726078

Race and the undeserving poor, Agenda, 2018.

Anderson, Ben ; Wilson, Helen F., *Everyday Brexits*, 2018-06. ISBN: 00040894

Balibar, E., *Populism in the American Mirror*, Verso, 2017.

Smith, Z., *Fences: a Brexit diary*, New York., 2016.ISBN: 00287504

Berlant, L., Helms, G., Vishmidt, M., *Variant issue 39/40 | Affect & the Politics of Austerity*.

Badiou, Alain ; Corcoran, Steve, *Philosophical Considerations of the Very Singular Custom of Voting: An Analysis Based on Recent Ballots in France*, 2002.

Bhambra, Gurinder K., *Brexit, Trump, and 'methodological whiteness': on the misrecognition of race and class I would like to thank Ipek Demir, John Holmwood, Alice Mah, Vicky Margree, Lucy Mayblin, Mike Savage, Robbie Shilliam, Neil Stammers, and the editors of this special issue for their advice and feedback on this article*, 2017-11.ISBN: 00071315

Closs Stephens, Angharad, *NATIONAL ATMOSPHERES AND THE 'BREXIT' REVOLT – Society & Space*, 2016.

Ta-Nehisi Coates author., *We were eight years in power : an American tragedy / Ta-Nehisi Coates.*, London : Hamish Hamilton, 2017.ISBN: 9780241325230

Katherine J. Cramer (Katherine Jean), author., *The politics of resentment : rural consciousness in Wisconsin and the rise of Scott Walker / Katherine J. Cramer.*, Chicago ; London : University of Chicago Press, 2016.ISBN: 9780226349114

Fortier, Anne-Marie, *Pride politics and multiculturalist citizenship*, Taylor & Francis Group, 2005-05-01.ISBN: 01419870

Lancaster, Guy, *The Threat of Race: Reflections on Racial Neoliberalism*. David Theo Goldberg, Blackwell Publishing Ltd, 2010-04.ISBN: 14738481

Arlie Russell Hochschild 1940- author., *Strangers in their own land : anger and mourning on the American right / Arlie Russell Hochschild.*, New York ; London : New Press, 2016.ISBN: 9781620972250

Probyn, Elspeth, *Sporting Bodies: Dynamics of Shame and Pride*, SAGE Publications, 2000-03.ISBN: 1357034X

Shilliam, Robbie, *Racism, multiculturalism and Brexit | Robbie Shilliam*, 2016.

Hosang, Daniel Martinez ;Labennett, Oneka ;Pulido, Laura;, *Racial formation in the twenty-first century*, S.I. : University of California Press, 2016.ISBN: 9780520273436

Steinberg, Philip E ; Page, Sam ; Dittmer, Jason ; Gökariksel, Banu ; Smith, Sara ; Ingram, Alan ; Koch, Natalie, *Reassessing the Trump presidency, one year on*, Elsevier Ltd, 2018-01.ISBN: 09626298

Paul. Gilroy, *After empire : melancholia or convivial culture / Paul Gilroy.*, Routledge, 2004.ISBN: 9780415343084

Ash. Amin, N. J Thrift, *Arts of the political : new openings for the left / Ash Amin and Nigel Thrift.*, Duke University Press, 2013.ISBN: 9780822354017

Baban, Feyzi ; Rygiel, Kim, *Living with others: fostering radical cosmopolitanism through citizenship politics in Berlin*, Routledge, 2017-01-01.ISBN: 16544951

Bulley, Dan ; Lisle, Debbie, *Welcoming the World: Governing Hospitality in London's 2012 Olympic Bid*, Blackwell Publishing Ltd, 2012-06.ISBN: 17495679

Wilson, Helen F, *Passing Proximities in the Multicultural City: The Everyday Encounters of Bus Passengering*, SAGE Publications, 2011-03.ISBN: 0308518X

Darling, Jonathan, *A city of sanctuary: the relational reimagining of Sheffield's asylum politics*, Blackwell Publishing Ltd, 2010-01.ISBN: 00202754

Squire, Vicki, *From Community Cohesion to Mobile Solidarities: The City of Sanctuary Network and the Strangers into Citizens Campaign*, SAGE Publications, 2011-06.ISBN: 00323217

Alibhai-Brown, Yasmin., *Who do we think we are? : imagining the New Britain* , Allen Lane, 2000..ISBN: 9780713994131; 0713994134; 9780140255980; 0140255982

Fortier, Anne-Marie., *Multicultural horizons : diversity and the limits of the civil nation* , Routledge, 2008..ISBN: 9780415396073 (paperback)

Louise Amoore, *The global resistance reader / edited by Louise Amoore.*, Routledge, 2005.ISBN: 0415335841

Jenny Edkins; Maja Zehfuss, *Global politics : a new introduction / edited by Jenny Edkins and Maja Zehfuss.*, Routledge, 2014.ISBN: 9780415684811

Blind Pessimism and the Sociology of Hope | Discover Society, Discover Society, 2015.

Berger, John, *Hold everything dear : dispatches on survival and resistance*, London : Verso, 2016.ISBN: 9781784783723

Additional Notes: Module is delivered on campus.

GEG252SI Geographical Fieldwork Skills: Isles of Scilly	
Credits: 20 Session: 2023/24 January-June	
Pre-requisite Modules:	
Co-requisite Modules:	
Lecturer(s): Dr E Urbanek, Dr CJT Ladd, Dr MJ Thomas	
Format: 60 hours in the field with 10 hours of blended learning online	
Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus.	
5 preparatory lectures/group meetings on campus. 60 hours contact on the field course in the Isles of Scilly.	
Module Aims: The module is concerned with identifying and defining climate and environment change questions within the Isle of Scilly, which serves as an example of a region with unique habitats and climate in the UK and applying relevant environmental and climate science skills, knowledge and techniques to these questions. The general aims are to observe, analyse and achieve an understanding of the varied micro-climates and habitat features of the Isle of Scilly. Students taking this module will gain experience in research design, methodologies, data analysis and presentation methods, including seminars, posters and reports. Students taking this field course focus on both climate change, sustainable living and the environment and conduct project work appropriate to their specialism. The module comprises preparatory sessions in Swansea during teaching block 2 and one week field course, which typically runs in the last week of teaching block 2.	
Module Content: Syllabus Teaching and learning will be centered on the one-week field-course to the Isles of Scilly, and supplemented by lectures and further study in Swansea before and after the field-course. Some of the learning will be undertaken in groups but, apart from where stated, the assessment will be your individual work. Assessment is via a portfolio of coursework (100%). There is no examination for this module.	
Intended Learning Outcomes: On completion of the module, students should be able to do the following: <ul style="list-style-type: none"> •Explain the main environmental features and past climate processes on the Isles of Scilly •Explain the climate change and environmental challenges facing the Isles of Scilly •Evaluate, where appropriate, the relevance of established models and theories related to climate change to local case studies •Identify key issues facing the Isles of Scilly and assess the effectiveness of policy responses •Use varied field methods for studying our designated field area and its landscape issues. 	
Assessment:	Coursework 1 (40%) Group Work - Presentation (20%) Coursework 3 (20%) Coursework 4 (20%)
Assessment Description: 1.Fact sheet report (40%) 2. Field Notebook (20%) 3. Group presentation (20%) 4. Sense of place video/photo story (20%)	
Moderation approach to main assessment: Moderation by sampling of the cohort	
Assessment Feedback: Continual assessment feedback is given in writing on standard departmental feedback forms and electronically via Canvas or email.	
Failure Redemption: Resubmit continual assessment.	

Reading List: Climate Change Action Plan 2022 Image: Barefoot Photographer / Scilly Wildlife Trust Library.

Petzold, Jan, Limitations and opportunities of social capital for adaptation to climate change: a case study on the Isles of Scilly, Blackwell Publishing Ltd, 2016-06.ISBN: 00167398

IPCC, Special Report on the Ocean and Cryosphere 2019.

Barnett, R.L ; Charman, D.J ; Johns, C ; Ward, S.L ; Bevan, A ; Bradley, S.L ; Camidge, K ; Fyfe, R.M ; Gehrels, W.R ; Gehrels, M.J ; Hatton, J ; Khan, N.S ; Marshall, P ; Maezumi, S.Y ; Mills, S ; Mulville, J ; Perez, M ; Roberts, H.M ; Scourse, J.D ; Shepherd, F ; Stevens, T, Nonlinear landscape and cultural response to sea-level rise, American Association for the Advancement of Science, 2020-11-04.ISBN: 23752548

Cornwall and Isles of Scilly Shoreline Management Plan 2 – Mid Term Review Isles of Scilly SMP2 Mid Term Review Client: Council of the Isles of Scilly.

Additional Notes: Module code reserved by r.muxworthy on 21/08/2020 10:54:38

Delivery of both teaching and assessment will be blended including live and self-directed activities online and on campus.

GEG273 Geographies of Climate Action and Activism

Credits: 10 Session: 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr AL Pigott

Format: Lectures 10 hrs
Seminars 10 hrs

Delivery Method: Predominantly lectures (including classroom discussions and group work)

Module Aims: This course will explore the kinds of knowledge, politics, and imaginations that underpin current responses to the climate crisis. It will engage critical and cutting-edge debates in Geography and related fields to help us grapple with the multiple ways we might understand and respond to a warming world. The module will begin by introducing climate change as a 'hyperobject' - that is, a phenomenon that is so vast in its temporality and scale that it is hard to grasp as a traditional 'object', but nonetheless requires urgent and widespread action. We will explore the particular politics and imaginaries associated with past and recent prominent climate movements (Extinction Rebellion, Greta Thunberg, and the School Strikes, for example) whilst examining the various attempts at thinking environment and politics differently that some of these movements embody. The final part of the module will engage with the concepts of ecological anxiety and ecological citizenship. This is a crucial and exciting time to be studying the emerging responses to the climate crisis, as there are so many examples from the world around us, and geographers are especially well placed to explore their tensions and possibilities. This course will help students to develop their 'climate change literacy' and to learn how to navigate and contribute to the complex political worlds of climate science, activism, and agency.

Module Content:

1. Introduction to the climate crisis
2. Geographies of climate action: Key approaches
3. Geographies of climate action: Emergency politics
4. Geographies of climate action: Anthropocene imaginaries
5. Activism and agency: Climate Justice and Governance
6. Activism and agency: The New Climate Movements
7. Activism and agency: Activism and Agency
8. Ecological distress
9. Ecological citizenship
10. Citizens' assembly

Intended Learning Outcomes:

- Explain key conceptual and theoretical debates in contemporary academic environmental politics and be able to apply those to the world around us;
- Critically evaluate key concepts including climate change, nature, activism, imaginaries, narrative, identity, agency, Anthropocene, as well as the relationship between them;
- Demonstrate a good awareness of cutting edge debates in the academic fields of cultural and critical geography as well as related debates in fields such as political ecology.
- Be able to critically reflect on our own positions in relation to political issues and environmental crises taking place in the world;
- Explain how approaches to environmental politics enable and disable different political possibilities in terms of policy and practice.

Assessment: Coursework 2 (40%)
Coursework 1 (60%)

Assessment Description: Coursework 1 60%: Option 1 - this will require students to undertake a climate action of their choice and to write a reflective report. Option 2 - to imagine a carbon-free 2040 (1500 words) on it.

Online multiple choice questions: 40%.

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Feedback on the Online MCQ will be provided via a recorded video published on Canvas

Failure Redemption: Projects continual assessments to be redeemed on an essay based on the topic covered by the project.

Reading List: Leichenko, Robin M. author., O'Brien, Karen L., author., Climate and society : transforming the future, Polity Press, 2019 - 2019.ISBN: 9780745684383

Elizabeth Boulton *, Climate change as a 'hyperobject': a critical review of Timothy Morton's reframing narrative, 2016.

Yusoff, Kathryn ; Gabrys, Jennifer, Climate change and the imagination, John Wiley & Sons, Inc, 2011-07.ISBN: 17577780

CASTREE, NOEL, Geographers and the Discourse of an Earth Transformed: Influencing the Intellectual Weather or Changing the Intellectual Climate?, 2015-08.ISBN: 17455863

Wildcat, Daniel R., author., Red alert! : saving the planet with indigenous knowledge, Fulcrum Publishing, 2009 - 2009.ISBN: 9781555917999

Harris, Dylan M, Telling the story of climate change: Geologic imagination, praxis, and policy, Elsevier Ltd, 2017-09.ISBN: 22146296

Moore, Michele-Lee ; Milkoreit, Manjana, Imagination and transformations to sustainable and just futures, 2020.ISBN: 23251026

Morton, Timothy, 1968-, Hyperobjects : philosophy and ecology after the end of the world, University of Minnesota Press, 2013 - 2013.ISBN: 1452940541

Robin Leichenko and Karen O'Brien, Climate and society. Transforming the future.ISBN: 9780745684390

Leyroy Little Bear, Reclaiming indigenous voice and vision.

Ripple, William ; Wolf, Christopher ; Newsome, Thomas ; Galetti, Mauro ; Alamgir, Mohammed ; Crist, Eileen ; Mahmoud, Mahmoud ; Laurance, William, World Scientists' Warning to Humanity: A Second Notice, Oxford University Press (OUP), 2017-12-01.ISBN: 00063568

De Rosa, S. and J. Bluwstein,, Why "Warning to Humanity" gets the socio- ecological crisis (and its solutions) wrong, 2017.

Leichenko, Robin M. author., O'Brien, Karen L., author., Climate and society : transforming the future, Polity Press, 2019 - 2019.ISBN: 9780745684383

Lamb, WF ; Mattioli, G ; Levi, S ; Roberts, JT ; Capstick, S ; Creutzig, F ; Minx, JC ; Müller-Hansen, F ; Culhane, T ; Steinberger, JK, Discourses of climate delay, Cambridge University Press (CUP), 2020-07-01.

Death, Carl., Critical environmental politics, Routledge, Taylor & Francis Group, 2014.ISBN: 9780415631037

Mike Hulme, The IPCC's Mistaken "Science-First" Approach to Climate Change, 2021.

Herman, R D. K, Traditional knowledge in a time of crisis: climate change, culture and communication, Springer Japan, 2016-01.ISBN: 18624065

Sullivan, Sian, 'ECOSYSTEM SERVICE COMMODITIES' - A NEW IMPERIAL ECOLOGY? IMPLICATIONS FOR ANIMIST IMMANENT ECOLOGIES, WITH DELEUZE AND GUATTARI, Lawrence & Wishart Ltd, 2010.ISBN: 09502378

Hulme, Mike., CLIMATE CHANGE, ROUTLEDGE, 2021.ISBN: 9780367822675

Patterson, J., Wyborn, C., Westman, L. et al., The political effects of emergency frames in sustainability, 2021.

Anderson, Ben, Emergency futures: Exception, urgency, interval, hope, SAGE Publications, 2017-09.ISBN: 00380261

Mike Hulme, Climate Emergency Politics Is Dangerous., 2019.

Swyngedouw, Erik, Apocalypse forever?: Post-political populism and the spectre of climate change, SAGE PUBLICATIONS LTD, 2010.ISBN: 02632764

April Anson, "Master Metaphor": Environmental Apocalypse and the Settler States of Emergency, 2020.

Anderson, Ben ; Grove, Kevin ; Rickards, Lauren ; Kearnes, Matthew, Slow emergencies: Temporality and the racialized biopolitics of emergency governance, SAGE Publications, 2020-08.ISBN: 03091325

O'Neill, Kirstie ; Sinden, Charlotte, Universities, sustainability, and neoliberalism: Contradictions of the climate emergency declarations, Cogitatio Press, 2021.

Wilkinson, Carrie ; Clement, Susannah, Geographers declare (a climate emergency)?, Routledge, 2021-01-02.ISBN: 00049182

Honig, Bonnie., Emergency politics : paradox, law, democracy, Princeton University Press, 2009.ISBN: 9780691142982

Hulme, Mike, Is it too late (to stop dangerous climate change)? An editorial, John Wiley & Sons, Inc, 2020-01.ISBN: 17577780

The Democratic Paradox., Verso Books, 2009.ISBN: 9781844673551

Anja Kanngieser and Angela Last, Five Propositions | Critiques for the Anthropocene, 2016.

HEAD, LESLEY, The Anthropoceneans, Blackwell Publishing Ltd, 2015-08.ISBN: 17455863

Buck, Holly Jean, On the Possibilities of a Charming Anthropocene, Routledge, 2015-03-04.ISBN: 00045608

Malm, Andreas ; Hornborg, Alf, *The geology of mankind? A critique of the Anthropocene narrative*, SAGE Publications, 2014-04.ISBN: 20530196

Leichenko, Robin M. author., O'Brien, Karen L., author., *Climate and society : transforming the future*, Polity Press, 2019 - 2019.ISBN: 9780745684383

Dalby, Simon, *Framing the Anthropocene: The good, the bad and the ugly*, SAGE Publications, 2016-04.ISBN: 20530196

Chakrabarty, Dipesh, *The Climate of History: Four Theses*, The University of Chicago Press, 2009-01.ISBN: 00931896

Graham, J. K. Gibson ; Roelvink, Gerda, *An Economic Ethics for the Anthropocene*, Blackwell Publishing, 2010-01.ISBN: 00664812

RICKARDS, LAUREN A, *Metaphor and the Anthropocene: Presenting Humans as a Geological Force*, Blackwell Publishing Ltd, 2015-08.ISBN: 17455863

Castree, Noel, *Changing the Anthro(s)cene: Geographers, global environmental change and the politics of knowledge*, SAGE Publications, 2015-11.ISBN: 20438206

Collard, Rosemary-Claire ; Dempsey, Jessica ; Sundberg, Juanita, *A Manifesto for Abundant Futures*, Routledge, 2015-03-04.ISBN: 00045608

Yusoff, Kathryn, author., *A billion black Anthropocenes or none*, University of Minnesota Press, 2018 - 2018.ISBN: 9781452961057

COOK, BRIAN R ; RICKARDS, LAUREN A ; RUTHERFURD, IAN, *Geographies of the Anthropocene*, Blackwell Publishing Ltd, 2015-08.ISBN: 17455863

Thornton, Thomas F ; Malhi, Yadvinder, *The Trickster in the Anthropocene*, SAGE Publications, 2016-12.ISBN: 20530196

Davis, H., & Todd, Z, *On the Importance of a Date, or, Decolonizing the Anthropocene*, 2017.

Yusoff, Kathryn, *Geologic Life: Prehistory, Climate, Futures in the Anthropocene*, SAGE Publications, 2013-10.ISBN: 02637758

Clark, Nigel ; Gunaratnam, Yasmin, Delanty, Gerard, *Earthing the Anthropos? From 'socializing the Anthropocene' to geologizing the social*, SAGE Publications, 2017-02.ISBN: 13684310

Moore, Jason W., *The Capitalocene, Part I: on the nature and origins of our ecological crisis*, Routledge, 2017-05-04.ISBN: 03066150

Sultana, Farhana, *The unbearable heaviness of climate coloniality*, 2022-03.ISBN: 09626298

Stoddard, Isak ; Anderson, Kevin ; Capstick, Stuart ; Carton, Wim ; Depledge, Joanna ; Facer, Keri ; Gough, Clair ; Hache, Frederic ; Hoolohan, Claire ; Hultman, Martin ; Hällström, Niclas ; Kartha, Sivan ; Klinsky, Sonja ; Kuchler, Magdalena ; Lövbrand, Eva ; Nasiritousi, Naghmeh ; Newell, Peter ; Peters, Glen P ; Sokona, Youba ; Stirling, Andy ; Stilwell, Matthew ; Spash, Clive L ; Williams, Mariama, *Three Decades of Climate Mitigation: Why Haven't We Bent the Global Emissions Curve?*, 2021-10-17.ISBN: 15435938

Nigel Clark and Yasmin Gunaratnam

. Kum-Kum Bhavnani, John Foran, Priya A. Kurian., *Climate Futures: Re-imagining Global Climate Justice*. EDITED BY STEFFEN BÖHM AND SIAN SULLIVAN, *Negotiating Climate Change in Crisis*.

Hulme, Mike., *CLIMATE CHANGE*, ROUTLEDGE, 2021.ISBN: 9780367822675

Biermann, Frank, *The future of 'environmental' policy in the Anthropocene: time for a paradigm shift*, Routledge, 2021-02-23.ISBN: 09644016

Rawson, Ariel ; Mansfield, Becky, *Producing juridical knowledge: "Rights of Nature" or the naturalization of rights?*, SAGE Publications, 2018-03.ISBN: 25148486

Schlosberg, David, *Theorising environmental justice: the expanding sphere of a discourse*, Taylor & Francis, 2013-02-01.ISBN: 09644016

Chancel, Lucas, *Global carbon inequality over 1990–2019.*, 2022.ISBN: <https://doi.org/10.1038/s41893-022-00955-z>

Dalby, Simon, *Environmental Geopolitics in the Twenty-first Century*, SAGE Publications, 2014-02-01.ISBN: 03043754

Conca, Ken, editor.; Dabelko, Geoffrey D., editor., *Green planet blues : critical perspectives on global environmental politics*, Routledge, 2020 - 2019.ISBN: 9780429322204

Death, Carl., *Critical environmental politics*, Routledge, Taylor & Francis Group, 2014.ISBN: 9780415631037

Rogers, Nicole, editor.; Maloney, Michelle M., editor., *Law as if Earth really mattered : the Wild Law Judgment Project*, Routledge, 2017.ISBN: 9781138669086

EDITED BY STEFFEN BÖHM AND SIAN SULLIVAN, *Negotiating Climate Change in Crisis*.

Death, Carl., *Critical environmental politics*, Routledge, Taylor & Francis Group, 2014.ISBN: 9780415631037

EDITED BY STEFFEN BÖHM AND SIAN SULLIVAN, *Negotiating Climate Change in Crisis*.

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EDITED BY STEFFEN BÖHM AND SIAN SULLIVAN, Negotiating Climate Change in Crisis.
Conca, Ken, editor.; Dabelko, Geoffrey D., editor., Green planet blues : critical perspectives on global environmental politics, Routledge, 2020 - 2019.ISBN: 9780429322204
Death, Carl., Critical environmental politics, Routledge, Taylor & Francis Group, 2014.ISBN: 9780415631037
Death, Carl., Critical environmental politics, Routledge, Taylor & Francis Group, 2014.ISBN: 9780415631037
Fraser, Nancy, CLIMATES OF CAPITAL, New Left Review Ltd, 2021-01-01.ISBN: 00286060
Willis, Rebecca, author., Too hot to handle? : the democratic challenge of climate change, Bristol University Press, 2020.ISBN: 1529206030
Williams, Joe ; Love, Whitney, Low-Carbon Research and Teaching in Geography: Pathways and Perspectives, 2021-10-27.ISBN: 00330124
Graham Smith, Citizens' assemblies: how to bring the wisdom of the public to bear on the climate emergency, 2019.
Rebecca Willis, To tackle the climate crisis we need more democracy, not less, 2019.
O'brien, Karen ; Selboe, Elin ; Hayward, Bronwyn M, Exploring youth activism on climate change: Dutiful, disruptive, and dangerous dissent, Resilience Alliance, 2018-10-01.ISBN: 17083087
Bluwstein, Jevgeniy, Transformation is not a metaphor, Elsevier Ltd, 2021-10.ISBN: 09626298
Temper, Leah ; Avila, Sofia ; Bene, Daniela Del ; Gobby, Jennifer ; Kosoy, Nicolas ; Billon, Philippe Le ; Martinez-Alier, Joan ; Perkins, Patricia ; Roy, Brototi ; Scheidel, Arnim ; Walter, Mariana, Movements shaping climate futures: A systematic mapping of protests against fossil fuel and low-carbon energy projects, IOP Publishing, 2020-11-23.ISBN: 17489318
Extinction Rebellion (Organisation) author., Farrell, Clare, editor; Green, Alison, editor; Knights, Sam, editor; Skeaping, William, editor, This is not a drill : an Extinction Rebellion handbook, Penguin Books, 2019 - 2019.ISBN: 9780141991443
Herbert, Joe, The socioecological imagination: Young environmental activists constructing transformation in an era of crisis, Wiley Subscription Services, Inc, 2021-06.ISBN: 00040894
Thiri, May Aye ; Villamayor-Tomás, Sergio ; Scheidel, Arnim ; Demaria, Federico, How social movements contribute to staying within the global carbon budget: Evidence from a qualitative meta-analysis of case studies, Elsevier B.V, 2022-05.ISBN: 09218009
Anna Pigott, Extinction Rebellion's "regenerative culture" could be just as revolutionary as its demands, Open Democracy UK, May 2019.
Davies, Anna R ; Broto, Vanesa Castán ; Hügel, Stephan, Editorial: Is there a new climate politics?, Cogitatio Press, 2021.
de Moor, Joost ; De Vydt, Michiel ; Uba, Katrin ; Wahlstrom, Mattias, New kids on the block: taking stock of the recent cycle of climate activism, 2021.ISBN: 14742829
Kenis, Anneleen, Clashing tactics, clashing generations: The politics of the school strikes for climate in Belgium, Cogitatio Press, 2021.
Kirk, Jaqueline ; Nyberg, Daniel ; Wright, Christopher, Divided yet united: Balancing convergence and divergence in environmental movement mobilization, 2021.ISBN: 09644016
Hulme, Mike, author., Climate Change, Routledge is an imprint of the Taylor & Francis Group, an informa business, 2022 - 2022.ISBN: 9780367822675
Westwell, Emily ; Bunting, Josh, The regenerative culture of Extinction Rebellion: self-care, people care, planet care, Routledge, 2020-04-15.ISBN: 09644016
Death, Carl., Critical environmental politics, Routledge, Taylor & Francis Group, 2014.ISBN: 9780415631037
JAMES OZDEN, SAM GLOVER, Literature Review: Protest Outcomes, April 2022.
Pohlmann, Angela ; Walz, Kerstin ; Engels, Anita ; Aykut, Stefan C. ; Altstaedt, Sören ; Colell, Arwen ; Dietrich, Udo ; Feddersen, Hauke ; Friedrich, Annabarbara ; Klenke, Jan ; Krieger, Franziska ; Schenuit, Felix ; Datchoua-Tirvaudey, Alvine ; Schulz, Markus ; Zengerling, Cathrin, It's not enough to be right! The climate crisis, power, and the climate movement, oekom verlag, 2021-12-16.ISBN: 09405550
Winkelmann, Ricarda ; Donges, Jonathan F. ; Smith, E. Keith ; Milkoreit, Manjana ; Eder, Christina ; Heitzig, Jobst ; Katsanidou, Alexia ; Wiedermann, Marc ; Wunderling, Nico ; Lenton, Timothy M., Social tipping processes towards climate action: A conceptual framework, Elsevier B.V, 2022-02.ISBN: 09218009
Julia Steinberger, An Audacious Toolkit: Actions Against Climate Breakdown (Part 3: I is for Individual), 2018.
O'Brien, Karen L, Climate change and social transformations: is it time for a quantum leap?, John Wiley & Sons, Inc, 2016-09.ISBN: 17577780

Leor Hackel and Gregg Sparkman, *Reducing Your Carbon Footprint Still Matters*, 2018.

Massey, Doreen, *Geographies of responsibility*, Routledge, 2004-03-01. ISBN: 04353684

Wiedmann, Thomas ; Lenzen, Manfred ; Keyßer, Lorenz T ; Steinberger, Julia K, *Scientists' warning on affluence*, Nature Publishing Group, 2020-12-01. ISBN: 20411723

Stoddard, Isak ; Anderson, Kevin ; Capstick, Stuart ; Carton, Wim ; Depledge, Joanna ; Facer, Keri ; Gough, Clair ; Hache, Frederic ; Hoolohan, Claire ; Hultman, Martin ; Hällström, Niclas ; Kartha, Sivan ; Klinsky, Sonja ; Kuchler, Magdalena ; Lövbrand, Eva ; Nasiritousi, Naghmeh ; Newell, Peter ; Peters, Glen P ; Sokona, Youba ; Stirling, Andy ; Stilwell, Matthew ; Spash, Clive L ; Williams, Mariama, *Three Decades of Climate Mitigation: Why Haven't We Bent the Global Emissions Curve?*, 2021-10-17. ISBN: 15435938

Pedwell, Carolyn, author., *Revolutionary routines : the habits of social transformation*, McGill-Queen's University Press, 2021. ISBN: 9780228006213

Oxfam Meia Briefing, *EXTREME CARBON INEQUALITY*, 2015.

United Nations Environment Programme, *Emissions Gap Report 2020*.

Simandan, Dragos, *Being surprised and surprising ourselves: A geography of personal and social change*, SAGE Publications, 2020-02. ISBN: 03091325

Shove, Elizabeth, *Beyond the ABC: Climate Change Policy and Theories of Social Change*, SAGE Publications, 2010-06. ISBN: 0308518X

Maniates, Michael F, *Individualization: Plant a Tree, Buy a Bike, Save the World?*, MIT Press, 2001-08-01. ISBN: 15263800

Akenji, Lewis, *Consumer scapegoatism and limits to green consumerism*, Elsevier Ltd, 2014-01-15. ISBN: 09596526

Carl Death, Death, Carl., *Critical environmental politics*, Routledge, Taylor & Francis Group, 2014. ISBN: 9780415631037

Death, Carl., *Critical environmental politics*, Routledge, Taylor & Francis Group, 2014. ISBN: 9780415631037

Death, Carl., *Critical environmental politics*, Routledge, Taylor & Francis Group, 2014. ISBN: 9780415631037

Karen O'Brien, *Political agency: The key to tackling climate change*, American Association for the Advancement of Science, 2015-12-04. ISBN: 00368075

O'Brien, Karen, *Is the 1.5°C target possible? Exploring the three spheres of transformation*, Elsevier B.V, 2018-04. ISBN: 18773435

Shove, Elizabeth, *Beyond the ABC: Climate Change Policy and Theories of Social Change*, SAGE Publications, 2010-06. ISBN: 0308518X

Nielsen, Kristian S. ; Nicholas, Kimberly A. ; Creutzig, Felix ; Dietz, Thomas ; Stern, Paul C., *The role of high-socioeconomic-status people in locking in or rapidly reducing energy-driven greenhouse gas emissions*, Nature Publishing Group, 2021-11-01. ISBN: 20587546

Moore, Frances C. ; Lacasse, Katherine ; Mach, Katharine J. ; Shin, Yoon Ah ; Gross, Louis J. ; Beckage, Brian, *Determinants of emissions pathways in the coupled climate–social system*, Nature Publishing Group, 2022-03-03. ISBN: 00280836

Maria Ojala, Ashlee Cunsolo, Charles A. Ogunbode, and Jacqueline Middleton, *Anxiety, Worry, and Grief in a Time of Environmental and Climate Crisis: A Narrative Review*, 2021.

Cunsolo, Ashlee ; Ellis, Neville R, *Ecological grief as a mental health response to climate change-related loss*, Nature Publishing Group, 2018-04-01. ISBN: 1758678X

Brown, Gavin ; Pickerill, Jenny, *Editorial: Activism and emotional sustainability*, Elsevier Ltd, 2009. ISBN: 17554586

Brown, Gavin ; Pickerill, Jenny, *Space for emotion in the spaces of activism*, Elsevier Ltd, 2009. ISBN: 17554586

David W Kidner, *Depression and the natural world: towards a critical ecology of psychological distress*, Palgrave Macmillan, 2007-04-01. ISBN: 14714167

Natalie Osborne, *For still possible cities: a politics of failure for the politically depressed*, 2019.

Van Dooren, Thom, 1980- author., Kryduba, Wayne, photographer. ; Smith, Mary Ann, cover designer., *Flight ways : life and loss at the edge of extinction*, Columbia University Press, 2014 - 2014. ISBN: 0231537441

Leichenko, Robin M. author., O'Brien, Karen L., author., *Climate and society : transforming the future*, Polity Press, 2019 - 2019. ISBN: 9780745684383

Albrecht, Glenn, *Solastalgia*, Alternatives Inc, 2006-01-01. ISBN: 12057398

Haraway, Donna Jeanne, author., *Staying with the trouble : making kin in the Chthulucene*, Duke University Press, 2016. ISBN: 9780822362142

Despret, Vinciane ; Meuret, michel, *Cosmoecological Sheep and the Arts of Living on a Damaged Planet*,

2016.

HEAD, LESLEY, *The Anthropoceneans*, Blackwell Publishing Ltd, 2015-08. ISBN: 17455863

Diego Arguedas Ortiz, *Is it wrong to be hopeful about climate change?*, BBC Future, 2020.

Solnit, Rebecca, author., *Hope in the dark : untold histories, wild possibilities*, Haymarket Books, 2016 - 2016. ISBN: 9781608465798

Rebecca Solnit, *Ten ways to confront the climate crisis without losing hope*, 2021.

Cunsolo, Ashlee ; Harper, Sherilee L ; Minor, Kelton ; Hayes, Katie ; Williams, Kimberly G ; Howard, Courtney, *Ecological grief and anxiety: the start of a healthy response to climate change?*, Elsevier Ltd, 2020-07. ISBN: 25425196

Britt Wray, *Why activism isn't *really* the cure for eco-anxiety and eco-grief*.

Willis, Rebecca, author., *Too hot to handle? : the democratic challenge of climate change*, Bristol University Press, 2020. ISBN: 1529206030

Leichenko, Robin M., O'Brien, Karen L., author., *Climate and society : transforming the future*, Polity Press, 2019 - 2019. ISBN: 9780745684383

Death, Carl., *Critical environmental politics*, Routledge, Taylor & Francis Group, 2014. ISBN: 9780415631037

Julia Steinberger, *An Audacious Toolkit: Actions Against Climate Breakdown*, 2018.

Elif Shafak, *How stories bring us together*, 2020.

Solnit, Rebecca, author., *Hope in the dark : untold histories, wild possibilities*, Haymarket Books, 2016 - 2016. ISBN: 9781608465798

Fisher, Mark., *Capitalist realism : is there no alternative?*, O Books, 2009. ISBN: 9781846943171

Anna Pigott, *Young climate activists have far more power than they realise*, 2021.

Millward-Hopkins, Joel ; Steinberger, Julia K ; Rao, Narasimha D ; Oswald, Yannick, *Providing decent living with minimum energy: A global scenario*, Elsevier Ltd, 2020-11. ISBN: 09593780

Vogel, Jefim ; Steinberger, Julia K ; O'Neill, Daniel W ; Lamb, William F ; Krishnakumar, Jaya, *Socio-economic conditions for satisfying human needs at low energy use: An international analysis of social provisioning*, Elsevier Ltd, 2021-07. ISBN: 09593780

Steinberger, Julia K ; Roberts, J. Timmons, *From constraint to sufficiency: The decoupling of energy and carbon from human needs, 1975–2005*, Elsevier B.V, 2010. ISBN: 09218009

Arif Jamal, *A message to environmentalists: don't ignore our deep ancestry as Earth's caretakers*, 2021.

Samuel Miller-McDonald, *What Must We Do to Live?*, 2018.

D. Durand-Delacre, G. Bettini, S. L. Nash, H. Sterly, G. Gioli, E. Hut, I. Boas, C. Farbotko, P. Sakdapolrak, M. de Bruijn, B. Tripathy Furlong, K. van der Geest, S. Lietaer and M. Hulme, *Climate Migration Is about People, Not Numbers*.

Peter North, *What Is to Be Done to Save the Planet?*.

EDITED BY STEFFEN BÖHM AND SIAN SULLIVAN, *Negotiating Climate Change in Crisis*.

Gibson, Katherine; Rose, Deborah Bird; Fincher, Ruth, *Manifesto for Living in the Anthropocene*, 2015.

Barker, Adam J ; Pickerill, Jenny, *Doings with the land and sea: Decolonising geographies, Indigeneity, and enacting place-agency*, SAGE Publications, 2020-08. ISBN: 03091325

Theriault, Noah ; Leduc, Timothy ; Mitchell, Audra ; Rubis, June Mary ; Jacobs Gaehowako, Norma, *Living protocols: remaking worlds in the face of extinction*, Routledge, 2020-09-01. ISBN: 14649365

Larsen, Soren C ; Johnson, Jay T, *The Agency of Place: Toward a More-Than-Human Geographical Self*, Routledge, 2016-01-02. ISBN: 2373566X

Paul A Ilen, Laura Blake, Peter Harper, A lice Hooker-Stroud, Philip James, Tobi Kellner, *Zero Carbon Britain: Rising to the Climate Emergency*, 2019.

Fletcher, Stephen ; Potts, Jonathan, *Ocean Citizenship: An Emergent Geographical Concept*, Taylor & Francis Group, 2007-09-04. ISBN: 08920753

Lewis Akenji, Magnus Bengtsson, Viivi Toivio, Michael Lettenmeier, Tina Fawcett, Yael Parag, Yamina Saheb, Anna Coote, Joachim H. Spangenberg, Stuart Capstick, Tim Gore, Luca Coscieme, Mathis Wackernagel, Dario Kenner, *1.5–Degree Lifestyles: Towards A Fair Consumption Space for All, Hot or Cool Institute*, Berlin, 2021.

Kallis, Giorgos ; March, Hug, *Imaginaries of Hope: The Utopianism of Degrowth*, Routledge, 2015-03-04. ISBN: 00045608

Country, Bawaka ; Wright, Sarah ; Suchet-Pearson, Sandie ; Lloyd, Kate ; Burarrwanga, Laklak ; Ganambarr, Ritjilli ; Ganambarr-Stubbs, Merrkiyawuy ; Ganambarr, Banbapuy ; Maymuru, Djawundil ; Sweeney, Jill, *Co-becoming Bawaka: Towards a relational understanding of place/space*, SAGE Publications, 2016-08. ISBN: 03091325

Capstick, Stuart, *Happiness that doesn't cost the Earth*, British Medical Journal Publishing Group, 2022-10-12.

Hickel, Jason ; Brockway, Paul ; Kallis, Giorgos ; Keyßer, Lorenz ; Lenzen, Manfred ; Slameršak, Aljoša ; Steinberger, Julia ; Ürge-Vorsatz, Diana, Urgent need for post-growth climate mitigation scenarios, Nature Publishing Group, 2021.ISBN: 20587546
Rose, Deborah Bird, Slowly ~ writing into the Anthropocene, 2013-10-31.ISBN: 13279556
Sparkman, Gregg ; Geiger, Nathan ; Weber, Elke U, Americans experience a false social reality by underestimating popular climate policy support by nearly half, Nature Publishing Group, 2022-01-01.
Kimberly Nicholas, Feelings: Tough love from a climate scientist.
Latour, Bruno author., Porter, Catherine, 1941- translator., Down to earth : politics in the new climatic regime, Polity Press, 2018.ISBN: 9781509530564

Additional Notes: Open to visiting and exchange students.

GEG276 Introduction to Geographic Information Systems

Credits: 20 Session: 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Prof AJ Luckman

Format: 11 hours lectures
22 hours computer lab practicals
Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

Lecture and computer practical

Module Aims: A Geographic Information System (GIS) is a computer-based technology for solving problems of a geographical nature – i.e. involving spatial relationships between people, places and objects. It can be applied to a wide range of disciplines within geography and has developed to provide a means to quickly and professionally produce maps from geospatial data. This module provides a basic grounding in GIS from the nature of spatial information, through the use of GIS in social and physical geography contexts, to the application of computers to solving complex geographical problems. Most importantly, it allows hands-on experience in using Quantum GIS (QGIS), the leading open-source GIS software package, and therefore provides a valuable skill for research and the for workplace.

Module Content: 1. Module introduction
2. A digital model of the real world
3. Comparing raster and vectors data models
4. Coordinates and geographic reference systems
5. Geographic presentation and map design
6. GIS data sources and formats
7. Digital land surface topography
8. The Global Positioning System (GPS)
9. Route-finding in a network
10. The future of GIS

Intended Learning Outcomes: • A broad understanding of the purpose and scope of Geographical Information Systems

- An appreciation of the way in which geographical entities can be represented in a computer
- A critical awareness of the increasing role of GIS in government, commerce and science
- The ability to use QGIS software to explore and analyse a range of geospatial data
- The ability to present geospatial data as a well constructed and functionally complete map
- A basic understanding of GIS-related technologies such as route-finding and GPS
- An appreciation of the future direction of GIS in geography and beyond

Assessment: Coursework 1 (20%)
Coursework 2 (30%)
Coursework 3 (20%)
Coursework 4 (30%)

Assessment Description: Coursework 1 - Project Figure 1
Coursework 2 - Project Figure 2
Coursework 3 - Multiple choice questions
Coursework 4 - Project Figure 3

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Students will receive feedback on each piece of coursework within 3 weeks of the submission deadline.

Each student will receive individual comments on their work.

The cohort will also receive general feedback in lectures, including an ideal example.

All feedback will be provided online.

Failure Redemption: Resubmit failed components.

Reading List: QGIS, QGIS Tutorial.

D. Ian Heywood author., Sarah Cornelius author.; Steve Carver author., An introduction to geographical information systems / Ian Heywood, Sarah Cornelius, Steve Carver., Harlow : Pearson Education Limited, 2011.ISBN: 9780273722595

Paul. Longley, Geographic information science & systems / Paul A. Longley, University College London, UK, Michael F. Goodchild, University Of California, Santa Barbara, USA, David J. Maguire, Birmingham City University, UK, and David W. Rhind, City University, London, UK., Hoboken, NJ : Wiley, 2015.ISBN: 9781118676950

Burrough, P. A., author., McDonnell, Rachael, author.; Lloyd, Christopher D., author., Principles of geographical information systems, Oxford University Press, 2015.ISBN: 9780198742845

Christopher B. Jones, Geographical information systems and computer cartography / by Christopher B. Jones., Longman, 1997.ISBN: 9780582044395

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

Available to visiting and exchange students.

GEG277 Geographical Methods and Approaches

Credits: 20 Session: 2023/24 September-January

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr KJ Ficken, Prof SH Doerr, Dr KH Halfacree, Dr JR Jordan, Dr JF Maddern, Dr KG Rees, Dr I Robertson, Dr E Urbanek

Format: 11 hours of lectures
21 hours of workshops (desk based and field based).

Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus. This core module will be delivered through a combination of lectures and practical sessions (including some group work) on Singleton campus and at various local field sites. Students will be able to select from the range of projects that interest them.

Module Aims:

This core 20 credit module introduces the variety of approaches to Human and Physical Geography that exist, providing an overview of the key methods used in the discipline. These paradigms will be introduced and then you are given the opportunity to 'think through' what kinds of methods chime with these geographical approaches. The module introduces key data methods and their theoretical roots, with an opportunity to 'practice' these key methods extended workshops - both desk based and in the field.

Module Content:

This module introduces students to some of the main research methods in currently employed by human and physical geographers, along with research design, philosophical and ethical considerations. The module includes lectures and practical training, and culminates in a research project conducted in small-groups. The syllabus will include:

Research Design lectures;
Quantitative and Qualitative data lectures;
Research Ethics lectures;
Questionnaire surveys practicals;
Census data and secondary sources;
The scientific method;
Physical Geography Field Projects;
Literature Review Skills.

Intended Learning Outcomes:

By the end of this module you should be able to:

Demonstrate an awareness of effective research, including identification of a research question, aims and objectives, a research design and selection of an appropriate research methods.

Exhibit an appreciation of the varying social contexts within which research methods are used in Human Geography and the environmental contexts within which research methods are used in Physical Geography.

Illustrate the ability to evaluate the appropriateness of each method in different research contexts, whether desk or field based.

Evidence the ability to review the literature in a chosen field in order to situate a method within a particular scientific or social science background.

Assessment:	Coursework 1 (50%) Coursework 2 (50%)
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Assessment Description:

Coursework 1 Literature review based on a chosen field of study.

Coursework 2 Either Human Geography or Physical Geography projects

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Continual assessment feedback is given in writing electronically using a standard rubric and comments box.
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Feedback also to be provided in class through peer evaluation and from the instructor on common strengths and weaknesses.

Failure Redemption: Resit examination or resubmit continual assessment whichever is applicable

Reading List: Editors: Gregory, D., Johnston, R., Pratt, G., Watts, M. & Whatmore, S., *The Dictionary of Human Geography*, Blackwell, 2009. ISBN: 9781405132886

Aitken, Stuart C., editor.; Valentine, Gill, 1965- editor., *Approaches to human geography : philosophies, theories, people and practices*, SAGE Publications Ltd, 2015 - 2015. ISBN: 1446276015

Richard. Peet, *Modern geographical thought / Richard Peet.*, Blackwell, 1998. ISBN: 1557863784

Rob. Kitchin, Nicholas J Tate, *Conducting research in human geography : theory, methodology and practice / Rob Kitchin and Nicholas J. Tate.*, London : Routledge, 2000. ISBN: 1138836737

Tim. Cresswell, *Geographic thought : a critical introduction / Tim Cresswell.*, Chichester, West Sussex, UK : Wiley-Blackwell, 2013. ISBN: 9781405169394

Robin Flowerdew; David Martin 1965 July 18-, *Methods in human geography : a guide for students doing a research project / edited by Robin Flowerdew and David Martin.*, Prentice Hall, 2005. ISBN: 9780582473218

Nicholas Clifford; Meghan Cope; Thomas Gillespie; Shaun French, *Key methods in geography / edited by Nicolas Clifford, Meghan Cope, Thomas Gillespie & Shaun French*, Sage Publications, 2016. ISBN: 9781446298602

Von Benzon, Nadia, editor.; Holton, Mark (Lecturer in human geography) editor.; Wilkinson-Zerner, Catherine, editor.; Wilkinson, Samantha, editor., *Creative methods for human geographers*, SAGE Publications Ltd, 2021 - 2021. ISBN: 1526496984

Angela L Coe, *Geological field techniques / edited by Angela L. Coe ; authors, Angela L. Coe ... [et al.]*., Wiley-Blackwell ; The Open University, 2010. ISBN: 9781444330625

Nicholas Clifford; Meghan Cope; Thomas Gillespie; Shaun French, *Key methods in geography / edited by Nicolas Clifford, Meghan Cope, Thomas Gillespie & Shaun French*, Sage Publications, 2016. ISBN: 9781446298602

Danny McCarroll author., *Simple statistical tests for geography / Danny McCarroll.*, Boca Raton, FL : CRC Press is an imprint of the Taylor & Francis Group, an Informa business, 2017. ISBN: 9781498758819

Joseph Holden Prof, author., *An introduction to physical geography and the environment / Joseph Holden.*, Harlow : Pearson Education Limited, 2017. ISBN: 9781292083612

George Mills. Bennison, Paul A Olver; K. A Moseley (Keith Anthony), 1956-, *An introduction to geological structures and maps / George M. Bennison, Paul A. Olver, Keith A. Moseley.*, Hodder Education, 2011. ISBN: 9781444112122

Douglas I. Benn, David J. A Evans, *Glaciers & glaciation / Douglas I. Benn and David J. A. Evans.*, Hodder Arnold, 2010. ISBN: 9780340905791

Stephen J. Gale, Peter G Hoare, *Quaternary sediments : petrographic methods for the study of unlithified rocks / S. J. Gale and P. G. Hoare.*, Blackburn Press, 2011. ISBN: 9781932846256

James H. Speer author, *Fundamentals of tree-ring research / James H. Speer.*, Tucson : University of Arizona Press, 2011. ISBN: 9780816526840

Scott, Andrew C., Bowman, D. M. J. S.; Bond, William J., 1948-; Pyne, Stephen J., 1949-; Alexander, Martin E., *Fire on earth : an introduction*, Wiley Blackwell, 2014. ISBN: 9781119953562

Blunt, A. & Wills, J., *Dissident Geographies: an Introduction to Radical Ideas and Practice*, Longman, 2000. ISBN: 9780582294899

Cresswell, T., *Geographic Thought: a Critical Introduction*, Wiley-Blackwell, 2013. ISBN: 9781405169394

Nayak, A. & Jeffrey, A., *Geographical Thought: an Introduction to Ideas in Human Geography*, Prentice Hall, 2011. ISBN: 9780132228244

Cochrane, K., *The fourth wave of feminism: meet the rebel women*, Guardian 10th December, 2013.

Johnson, L., *Feminist Geography 30 years on - they came, they saw, but did they conquer?*, Blackwell Publishing Ltd, 2012. ISBN: 17455863

Johnston, R. & Sidaway, J., *Geography and Geographers: Anglo-American Human Geography since 1945*, Arnold, 2004. ISBN: 9780340808603

Peet, R., *Modern Geographical Thought*, Blackwell, 1998. ISBN: 9781557863782

Vickery, A., *Mary Wollstonecraft: 'Britain's first feminist'*, BBC, n.d..

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

Not available to visiting and exchange students.

GEG278 Data Analysis and Dissertation Preparation Skills

Credits: 20 Session: 2023/24 January-June

Pre-requisite Modules:

Co-requisite Modules:

Lecturer(s): Dr NJ Felstead, Dr A Closs Stephens, Dr KJ Ficken, Dr J Hiemstra

Format: Lectures/practicals: 17 hours
Dissertation preparation lectures and workshops: 15
Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.

Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus

This module is to be delivered through a mixture of lectures, practical sessions and dissertation planning workshops.

Module Aims: This module builds upon student knowledge of social research methods and environmental methods (delivered in GEG277) through to the formulation of a dissertation proposal. The module focuses on key dissertation planning and preparation skills delivered in association with the Centre for Academic Success (CAS) such as time management, creative and critical thinking and developing a focus, writing a proposal etc. The module also focuses on qualitative and quantitative data analysis and how to use data effectively in preparedness for a final year dissertation project.

Module Content: Introductory / preparatory lecture: the research topic, process and expectations

Formulation of research question, aims, objectives and research design

Selecting and developing your data collection methods / survey / group division of labour

Primary data collection (group fieldwork) / help and advice session

Codifying and sharing of primary data / help and advice session

Quantitative data analysis

Qualitative data analysis

Help and advice session

Production and submission of research report

Intended Learning Outcomes: By the end of this module you should be able to:

- Demonstrate an awareness of the considered and structure nature of effective research, including identification of a research question, aims and objectives, a research design and selection of an appropriate research method;
- develop a proposal for a conceptually grounded piece of geographical research in the form of a dissertation proposal;
- Show mastery of a range of suitable techniques for the analysis of quantitative and qualitative data;

Assessment: Coursework 1 (40%)
Coursework 2 (40%)
Coursework 3 (20%)

Assessment Description: Coursework 1: 1 project+1 poster (data analysis focus). 1,500 words plus poster.

Coursework 2: dissertation proposal (with option of formative feedback on first draft). 1,500 words.

Coursework 3 (Data Analysis)

Moderation approach to main assessment: Moderation by sampling of the cohort

Assessment Feedback: Individual typed electronic feedback which is formative and summative.

Failure Redemption: Resubmit components as required.

Reading List: A. J. Parsons author., Peter Knight 1961- author., How to do your dissertation in geography and related disciplines / Tony Parsons and Peter G. Knight., Milton Park, Abingdon, Oxon ; New York, NY : Routledge, 2015.ISBN: 9781317909200

Kimberley A. Peters, Your human geography dissertation : designing, doing, delivering / Kimberley A. Peters., Thousand Oaks, CA : SAGE, 2017.ISBN: 9781446295205

Linneman, Thomas John, author., Social statistics : managing data, conducting analyses, presenting results, Routledge is an imprint of the Taylor & Francis Group, an informa business, 2022.ISBN: 9781032116235

Danny McCarroll author., Simple statistical tests for geography / Danny McCarroll., Boca Raton, FL : CRC Press is an imprint of the Taylor & Francis Group, an Informa business, 2017.ISBN: 9781498758819

Nicholas Clifford; Meghan Cope; Thomas Gillespie; Shaun French, Key methods in geography / edited by Nicolas Clifford, Meghan Cope, Thomas Gillespie & Shaun French, Sage Publications, 2016.ISBN: 9781446298602

Lury, Celia, editor.; Fensham, Rachel, editor.; Heller-Nicholas, Alexandra, editor.; Lammes, Sybille, editor.; Last, Anglea, editor.; Michael, Mike, editor.; Uprichard, Emma, editor., Routledge handbook of interdisciplinary research methods, Routledge is an imprint of the Taylor & Francis Group, an informa business, 2018 - 2018.ISBN: 9781315714523

Stuart Hall 1932-2014.; Open University., Representation : cultural representations and signifying practices / edited by Stuart Hall., Sage in association with the Open University, 1997.ISBN: 9780761954323

Robin Flowerdew; David Martin 1965 July 18-, Methods in human geography : a guide for students doing a research project / edited by Robin Flowerdew and David Martin., Prentice Hall, 2005.ISBN: 9780582473218

Stephen J. Gale, Peter G Hoare, Quaternary sediments : petrographic methods for the study of unlithified rocks / S. J. Gale and P. G. Hoare., Blackburn Press, 2011.ISBN: 9781932846256

Joseph Holden Prof, author., An introduction to physical geography and the environment / Joseph Holden., Harlow : Pearson Education Limited, 2017.ISBN: 9781292083612

Andrew McGregor, Negotiating Nature: Exploring Discourse through Small Group Research, Blackwell Publishing Ltd, 2005-12-01.ISBN: 00040894

Tim Edensor 1957- editor.; Ares Kalandides editor.; Uma Kothari editor., The Routledge handbook of place / edited by Tim Edensor, Ares Kalandides and Uma Kothari., Abingdon, Oxon : Routledge is an imprint of the Taylor & Francis Group, an informa business, 2020.ISBN: 9780429453267

Kaya Barry editor.; Maria Borovnik editor.; Tim Edensor 1957- editor., Weather : spaces, mobilities and affects / edited by Kaya Barry, Maria Borovnik and Tim Edensor., London ; New York, New York : Routledge, 2021.ISBN: 0367808196

Tim Edensor 1957-, Industrial ruins : spaces, aesthetics, and materiality / Tim Edensor., Berg, 2005.ISBN: 9781845200770

Tim Cresswell author., Place : an introduction / Tim Cresswell., Chichester, West Sussex ; Malden, MA : Wiley Blackwell, 2015.ISBN: 9780470655627

Walter Benjamin 1892-1940., One-way street and other writings / Walter Benjamin ; translators, Edmund Jephcott, Kingsley Shorter., Verso, 1985.ISBN: 086091836X

Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.

This module is not available to visiting or exchange students.

GEG283 Sustainable Land Management	
Credits: 10 Session: 2023/24 September-January	
Pre-requisite Modules:	
Co-requisite Modules:	
Lecturer(s): Dr E Urbanek, Prof SH Doerr	
Format:	lectures, workshops, field visits Contact Hours will be delivered through a blend of live activities online and on-campus, and may include, for example, lectures, seminars, practical sessions and Academic Mentoring sessions.
Delivery Method: All Programmes will employ a blended approach to delivery using the Canvas Digital Learning Platform for live and self-directed online activity, with live and self-directed on-campus activities each week. Students may also have the opportunity to engage with online versions of sessions delivered on-campus	
The module will be taught, but will include some practical aspects and field visit.	
Module Aims: Sustainable Land Management course focuses on the understanding and maintaining of the environmental values of LAND and SOIL for food production, water quality, flood defence and climate regulation. To understand the Sustainable Land Management the basic understanding of SOIL properties, functions will be introduced followed by the main threads and challenges to soil health connected with climate change and incorrect land management. Case studies of Sustainable Land Management in agriculture, fire prevention and mitigation, peatland restoration and land remediation will be showcased and discussed. The module will contain a series of lectures, workshops and field visit. Students are recommended to sign up to the GEG277 Environmental Research Methods - Soil, but the knowledge from the GEG277 sessions are not essential to complete the module.	
Module Content: 1 (2hrs) Sustainable land management, soil functions 2 (2hrs) Soil components, soil formation, soil classification 3 (2hrs) Soil hydrology; 4 (2hrs) Greenhouse gas emissions from land, Carbon and Nitrogen cycle; 5 (2hrs) Climate change adaptation and mitigation 6 (2hrs) Land degradation and global challenges 7 (2+4hrs) Sustainable land management - agriculture + Field visit to sustainable farm 8 (2hrs) Fire prevention and mitigation 9 (2hrs) Land reclamation, peatland restoration	
Intended Learning Outcomes: On successfully completing this module, students will be able to: - Understand main soil properties and processes occurring in healthy and degraded soils; - Understand and describe key soil functions and ecosystem services; - Describe the main land-related challenges and suggest mitigation strategies to improve soil health and functioning of land; - Recommend sustainable solutions for prevention and mitigation of soil problems related to land mismanagement and climate change.	
Assessment:	Online Multiple Choice Questions (10%) Examination (70%) Online Multiple Choice Questions (10%) Online Multiple Choice Questions (10%)
Assessment Description: 3 x MCQ tests (10% each) following each learning block 1 x Essay exam (70%)	
Moderation approach to main assessment: Moderation by sampling of the cohort	
Assessment Feedback: Written feedback on exam.	
Failure Redemption: Exam resit	
Additional Notes: Delivery of both teaching and assessment will be blended including live and self-directed activities online and on-campus.	
Available to visiting and exchange students.	