

MSc Climate Change Management

Dr Adam Hejnowicz | 12 November 2024



Meet our staff



Adam Hejnowicz Climate Change Adaptation *Programme Director and Cohort Lead*



Kate Donovan Climate Risk and Resilience



Andrew SchurerErikaClimate Change Science and ModellingClimate



Matt Lane Climate Change Mitigation



Erika Warnatzsch Thompson Climate Change Management







Climate Crisis: A challenge for us all

- We are at the forefront of positive change
- Never has the climate crisis gained so much political and social traction... together we must ensure this leads to positive action!





Why study MSc Climate Change Management at Edinburgh?

- Are you ready to confront the challenges of the global climate crisis?
- You are joining **students from across the globe** to tackle the challenges of climate change and creating a low carbon economy.
- Designed to equip you with high-level knowledge and understanding of climate change and how it relates to economics, business, policy, and climate science.
- There are 20 applicants for each place on the programme.
- Your studies will draw widely on the **latest research** in the climate change field as well as utilise case studies from Scotland and around the world.
- Professional experts—including alumni of the programme—contribute to the discussions and provide guest lectures.
- It is an interactive degree and you are expected to dive in and join the conversation, participate in group activities, and offer your critical analysis of the topics.







Structure of the Programme

Find a full list of compulsory and optional courses on <u>Degree Programme Timetables</u>

- 180 credits overall
- Compulsory courses 80 credits
 - 1. Climate Change Impacts and Adaptation
 - 2. Foundations of Climate Science and Politics
 - 3. Professional Skills and Methods
 - 4. Climate Change Mitigation
- Optional courses 40 credits
 - can include 10 or 20 credit options, sourced from other courses across GeoSciences and elsewhere
 - A range of different types of assessments: essays, group work, videos, blogs, posters
- Dissertation 60 credits
 - often done in collaboration with external University actors







Your learning journey*

Semester 1

- Climate Change Impacts & Adaptation
- Foundations of Climate Science & Politics
- Optional course(s) (20 credits)

Semester 2

- Climate Change Mitigation
- Professional Skills and Methods
- Optional course(s) (20 credits)

Dissertation

Thoughts & planning in S1 & S2, working on it full-time from April to August.

*This is for full-time students, part-time students will have a different schedule







Part-time structure

- You may study this programme part-time as we are committed to helping people into education while continuing to work or managing family and personal commitments.
- Two and three-year part-time options are available.
- We recommend living within a commutable distance from Edinburgh in order to undertake part-time study, and we encourage you to contact us to discuss parttime study in more detail.

• 2-year programme:

- Year 1: 2 compulsory courses and 20 credits optional courses
- Year 2: 1 compulsory course + dissertation and 40 credits of optional courses
- 3-year programme:
 - Year 1: 2 compulsory courses and 20 credits of optional courses
 - Year 2: 1 compulsory course and 40 credits of optional courses
 - Year 3: Dissertation only
- Optional courses can include 10 or 20 credit options, sourced from other courses across GeoSciences and elsewhere.





Core module coverage includes:







Hours required

- 20 credits (one course) = 200 hours work
- This consist of **30 to 40 hours contact time in classes per course**
- The rest of the time is devoted to:
 - in-class preparation (c. 30 to 40 hours)
 - reading guided and your own (c. 60 hours)
 - group work and assignments (c. 70 hours)
- Over 14 weeks, 600 hours is **43 hours of work per week**
- Assessment of work is based on the above time inputs







Teaching and assessment

- You will experience a range of teaching and assessment styles while you are studying.
- Courses can be delivered through a mix of:
 - o lectures
 - o tutorials
 - o seminars
 - workshops
 - o practical's
 - o laboratory work
 - short field trips and longer field courses







Dissertation

- Completed during the summer (May to August)
- Explore a topic of your choice in relation to climate change and carbon management and prepare a dissertation that you can use to demonstrate your work to potential employers.
- You can even use the dissertation to explore your own business idea for tackling climate change through the business plan dissertation option.
- We also work with our wide network to find opportunities for dissertation projects with external organisations, enhancing the real-world relevance of your degree.

- Previous topics include:
 - A systematic review of carbon colonialism perpetuated by forest carbon offsetting in East Africa
 - Industry perspectives on decarbonising Norwegian shipping industry
 - Developing a carbon impact tool for flood damage to residential buildings
 - Potential of a circular food system as framework to meet Net Zero Targets: Barriers for UK arable agriculture sector
 - Can low-middle-income countries use the adaptation pathways approach to adapt traditional water resources management to climate change
 - How to attract private capital for renewable energy investments in South Africa: An independent power producer perspective
 - Energy policy for low carbon development in Cambodia: A LEAP Model Application





Learning outcomes of the programme include being able to:

- Demonstrate a multi-disciplinary understanding of key issues relating to global, regional, and local climate change management
- Be familiar with the tools used for climate impact assessment and adaptation planning across a range of sectors
- Develop and demonstrate an integrated view of mitigation and adaptation by individuals, communities, businesses, NGOs, and governments
- Recognise and assess the policy dimensions of a wide range of climate change and carbon management challenges
- Have a sound understanding of climate change science
- Demonstrate skills in interdisciplinary analysis, drawing upon different empirical sources, analytical perspectives, and sub-disciplines within carbon management studies







As an MSc student, you are expected to....

- Manage your own independent learning
- Complete your self-study as well as engage with lectures and discussions
- Plan your time, read programme and course guidelines, and deliver assessments on time
- Make use of academic literature, post-graduate resources, and the library services
- Seek out and participate in seminars/webinars
- Adhere to the University Student Code of Conduct <u>https://www.ed.ac.uk/academic-services/students/conduct/code-of-student-conduct</u>





Dignity & Respect Policy

The University has a strong and long-standing commitment to equality, diversity and inclusion and to promoting a positive culture which celebrates difference, challenges prejudice and ensures fairness.



Demonstrate respect and integrity in your interactions with individuals and groups.



Work and study collaboratively, collegially and effectively in teams within and across organisational units.



Identify and challenge unacceptable behaviour when it occurs, even if it is not directed at ourselves.



Address and resolve matters yourselves, where reasonably possible, in a positive and constructive way.



Raise serious concerns with relevant University staff & participate positively in approaches to resolve them.



Modify your behaviour if you become aware that you have behaved unacceptably in relation to this policy, even if no complaint has been made.









Vision: a resilient, just and climate neutral Scotland, showing leadership in global climate action.

Edinburgh Climate Change Institute (ECCI)

ECCI supports and provides:

- Applied Research projects such as PCAN, Climate KIC
- Start-ups/enterprises
- Direct advice to Governments and Local Authorities
- A space for learning and networking

ECCI hosts a range of agencies leading climate change mitigation and adaptation in Scotland:

- Adaptation Scotland
- Sustainable Scotland Network
- Climate Exchange
- Wave Energy Scotland
- Scottish Carbon Capture & Storage



THE UNIVERSITY of EDINBURGH Edinburgh Climate Change Institute (ECCI) (https://edinburghcentre.org)





Alumni: Part of a global community

- Diverse international cohort
- Climate & carbon experts
- 450+ Alumni around the world
- Join the LinkedIn Group





Career opportunities

Our graduates have been successful in securing employment in the carbon and climate change sector around the world. Types of roles include:

- Renewable energy project developers
- Commercial carbon management consultants
- Central, regional and local government civil servants delivering a wide range of climate and decarbonisation policies
- Climate policy advisors to parliaments
- Low carbon investors & economic advisors
- NGO climate policy researchers and executives
- PhD research and subsequent academic career path

For further details, see our website: MSc Climate Change Management for prospective students







Scholarships and funding

- Featured funding
- ScottishPowerMaster Scholarships
- School of GeoSciences scholarships
- See potential funding for GeoSciences students
- You are encouraged to research the range of potential scholarships and other funding outside the University for which you may be eligible.
- Search for funding





Asking questions

Type your question into the Chat Area



Next steps...

Contact details for follow-up questions

- We apologise if we did not get through all of your questions in the time allotted for this session. If you have further questions that have not been answered, please email: <u>futurestudents@ed.ac.uk</u>
- Or, Dr Adam Hejnowicz: adam.hejnowicz@ed.ac.uk

Thank you – click 'Leave' when the session ends

Return to your 'e-ticket' to find and attend other sessions you've booked – by clicking on the button in the email we sent you...

- ...and visit the events hub:
- <u>https://edin.ac/4gZuP3G</u>

Thank you

Dr Adam Hejnowicz Adam.hejnowicz@ed.ac.uk

