

Earth Science and the Environment 2

Course Handbook

Modules

- Earth Science and the Environment 2A – Geology, Geochemistry and Geophysics
 - EARTH2010
 - Semester 1
 - 30 credits
- Earth Science and the Environment 2B – Evolution, Environmental Change and Exploration
 - EARTH2011
 - Semester 2
 - 30 credits

Timetable

Lectures					Labs		
	Mon	Tues	Wed	Thurs	Monday	Wednesday	
	9-10 am	9-10 am	9-10 am	9-10 am	11-1 OR 2-4	11-1 OR 2-4	
	GB 308	GB 308	GB 308	GB 308	GB Room 229		
<i>Week</i>	2A	2A	2A	2A	2A	2A	<i>wk starting</i>
6	Introduction	Sedimentology	Sedimentology	Sedimentology	Sedimentology	Sedimentology	17-Sep-18
7	Sedimentology	Sedimentology	Sedimentology	Sedimentology	Sedimentology	Sedimentology	24-Sep-18
8	Igneous	Igneous	Igneous	Igneous	Igneous	Igneous	01-Oct-18
9	Igneous	Igneous	Igneous	Igneous	Igneous	Igneous	08-Oct-18
10	Metamorphism	Metamorphism	Metamorphism	Metamorphism	Metamorphism	Metamorphism	15-Oct-18
11	Metamorphism	Metamorphism	Metamorphism	Metamorphism	Metamorphism	Metamorphism	22-Oct-18
12	Structural Geology	Structural Geology	Structural Geology	Structural Geology	Structural Geology	Structural Geology	29-Oct-18
13	Structural Geology	Structural Geology	Structural Geology	Structural Geology	Structural Geology	Structural Geology	05-Nov-18
14	Global Tectonics	Global Tectonics	Global Tectonics	Global Tectonics	Global Tectonics	Global Tectonics	12-Nov-18
15	Global Tectonics	Global Tectonics	Global Tectonics	Global Tectonics	Global Tectonics	Global Tectonics	19-Nov-18
16					<i>Lab Assessment</i>	<i>Lab Assessment</i>	26-Nov-18
17	University Examinations & Revision Period						03-Dec-18
18	University Examinations & Revision Period						10-Dec-18






Timetable

	Lectures				Labs			
	Mon	Tues	Wed	Thurs	Monday	Wednesday		
	9-10 am	9-10 am	9-10 am	9-10 am	11-1 OR 2-4	11-1 OR 2-4		
	GB 308	GB 308	GB 308	GB 308	GB Room 229			
	2B	2B	2B	2B	2B	2B		
22	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	07-Jan-19	
23	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	14-Jan-19	
24	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	Palaeontology, Palaeoclimate & Stratigraphy	21-Jan-19	
25	Geomorphology	Geomorphology	Geomorphology	Geomorphology	Geomorphology	Geomorphology	28-Jan-19	
26	Exploration	Exploration	Exploration	Exploration	Exploration	Exploration	04-Feb-19	
27	Exploration	Exploration	Exploration	Exploration	Exploration	Exploration	11-Feb-19	
28	Exploration	Exploration	Exploration	Exploration	Exploration	Exploration	18-Feb-19	
29	Exploration	Exploration	Exploration	Exploration	Exploration	Exploration	25-Feb-19	
30	Environmental Geoscience	Environmental Geoscience	Environmental Geoscience	Environmental Geoscience	Non-Arran Students Briefing	Environmental Geoscience	04-Mar-19	
31	Environmental Geoscience	Environmental Geoscience	Environmental Geoscience	Environmental Geoscience	Environmental Geoscience	Environmental Geoscience	11-Mar-19	
32					Lab Assessment	Lab Assessment	18-Mar-19	
33	<i>University Examinations after Spring Vacation</i>							25-Mar-19
34								01-Apr-19

Semester 1

Topic	Staff Member
Sedimentology	John MacDonald 
Igneous Petrology and Processes	Iain Neill 
Structural Geology	Tim Dempster & Allan Hollinsworth 
Metamorphism	
Global Tectonics	

Semester 2

Topic	Staff Member
Palaeontology, Palaeoclimates & Stratigraphy (3 weeks)	Julien Plancq 
Geomorphology (1 week)	Cristina Persano 
Exploration (4 weeks)	David Brown and Lydia Hallis  
Environmental Geoscience (2 weeks)	John MacDonald 

Assessment Breakdown

- 2A
 - 50% written theory exam
 - Assesses material covered in lectures in each of the topics
 - 40% laboratory-based practical test
 - Assesses material covered in labs in each of the topics
 - 10% 1-day field class
 - Assesses field skills (more on this later)

Assessment Breakdown

- 2B
 - 40% written theory exam
 - 30% practical skills test
 - 30% portfolio of field-based activities
- More details to be given at start of semester 2

Grade Related Criteria

Band	Percentage %	Aggregation Score	Verbal Grade Descriptor and Class
A1	92-100	22	Excellent; First Class: Exemplary range and depth of attainment of intended learning outcomes (ILOs), secured by discriminating command of a comprehensive range of relevant materials and analyses, and by deployment of considered judgement relating to key issues, concepts and procedures.
A2	85-91	21	
A3	79-84	20	
A4	74-78	19	
A5	70-73	18	
B1	67-69	17	Very good; Upper second: Conclusive attainment of virtually all ILOs, clearly grounded on a close familiarity with a wide range of supporting evidence, constructively utilised to reveal appreciable depth of understanding.
B2	64-66	16	
B3	60-63	15	
C1	57-59	14	Good; Lower second: Clear attainment of most of the ILOs, some more securely grasped than others, resting on a circumscribed range of evidence and displaying a variable depth of understanding.
C2	54-57	13	
C3	50-53	12	
D1	47-49	11	Satisfactory; Third: Acceptable attainment of ILOs, displaying qualified familiarity with minimally sufficient range of relevant materials, and a grasp of the analytical issues and concepts which is generally reasonable, albeit insecure.
D2	44-46	10	
D3	40-43	9	
E1	37-39	8	Weak; Fail: Attainment deficient in respect of specific ILOs, with mixed evidence as to the depth of knowledge and weak deployment of arguments or deficient manipulations.
E2	34-36	7	
E3	30-33	6	
F1	27-29	5	Poor; Fail: Attainment of ILOs appreciably deficient in critical respects, lacking secure basis in relevant factual and analytical dimensions.
F2	24-26	4	
F3	20-23	3	
G1	15-19	2	Very poor; Fail: Attainment of ILOs markedly deficient in respect of nearly all ILOs, irrelevant use of materials and incomplete and flawed explanation.
G2	10-14	1	
H	0-9	0	No convincing evidence of attainment of ILOs, treatment of the subject is directionless and fragmentary.

2A Semester 1 Field Class

- 1 day trip – Saturday 29th September
- St Monans, Fife
- Assess skills in graphic logging (which we will cover in lectures and labs beforehand)
- Depart 8:30am - BE OUTSIDE FRONT OF BOYD ORR AT 8AM
- Travel by coach to St Monans (~2hrs)
- Spend ~5hrs in the field and hand in completed graphic log before getting the bus back to Glasgow
- Arrive back in Glasgow ~17:30

2B Semester 2 Field Class

- Location/duration depends on your plans for your honours degree
 - If you continue with this subject and choose your final degree to be Geology or Earth Science (more on these later) then you will attend a week-long field class to Arran
 - If you do not plan to continue with Geology or Earth Science then there will be a non-field based substitute

Arran Fieldclass – for those continuing with Geology/Earth Science in 3rd year

- Training you in field skills such mapping and logging
- 1 week residential field class, based in Brodick
- Class will be split into 2 groups, each going for a week, either:
 - 23-29 March
 - 30 March to 5 April
- Assessment on material produced on the fieldclass

For those NOT continuing with Geology/Earth Science in 3rd year

- Written assignment, equally weighted to the Arran field class in marks and time that should be spent on it
- 3 parts
 - Essay on geological history of a specified area
 - Detailed rock descriptions of samples provided
 - Report on potential for groundwater abstraction at a specified site

MyCampus Items to Purchase

- “L2 St Monans Fieldtrip”
 - Covers the coach travel to the St Monans location
 - ~£10, exact cost depends on number of students enrolled
 - **This is a core fieldclass and so MUST be purchased no later than next Thursday (27/09/18)**

MyCampus Items to Purchase

- “L2 Essentials Kit”
 - Includes field workstation (weatherwriter), compass clinometer and weatherproof field notebook
 - ~£60 – this is exceptionally good value – if you bought these items individually it would be more than double that!
 - **This is required for the St Monans fieldclass so MUST be purchased no later than next Tuesday (25/09/18)**
 - The office will provide me with a list of who has paid, from which I will hand out the pack in the lab sessions

MyCampus Items to Purchase

- “L2 Arran Fieldtrip”
 - No rush with this one!
 - This is for those who wish to continue to honours Geology/Earth Science, so you should purchase this in semester 2
 - ~£125, again depends on the numbers signed up
 - This covers your accommodation for the week
 - This is a self-catering trip (large Co-Op 2mins down the road, various restaurants in Brodick) so you can eat as cheaply as you like
 - Travel is by train, ferry and public bus will be <£50 for the week

Looking Ahead to 3rd and 4th Year

- 2 degree options continuing from 2nd year Earth Science and the Environment:
 - Geology
 - More focussed on processes and resources in the subsurface, and equipping you with the skills to understand those
 - Earth Science
 - More environmentally-focussed, mainly studying processes and resources at the Earth's surface, and equipping you with the skills to understand those
- Chance to take optional modules to 'mix and match' to a certain extent, giving bits of the best of both degrees!

Looking Ahead to 3rd and 4th Year

- Entry Requirements for both streams:
 - Normally completion of Earth Science and the Environment 2A and 2B at an average Grade C3 or better
 - achieving at least a Grade of D3 in 2A and 2B
 - attendance at the Arran field class

Reading

- Textbooks from L1 generally ok although individual staff members may refer you to some other, more specific, textbooks or perhaps academic journal papers

Hand-in Deadlines

- Only one...in semester 2
- Submit to drop box, Level 4 of GB
 - plagiarism form MUST be stapled to the front
 - all work must have Student Number on ALL sheets
- 10 am.....10.15 is late!!!
- Late work to be submitted to the office (GB507)

Absences

- Document ALL absences (within 5 days of returning)
 - especially for late assessments
 - absence reporting via MyCampus
 - **NOTHING** we can do retrospectively
- Good cause
 - notify of absence/missed assessment
 - submit report/evidence a.s.a.p.
 - assessed by School Teaching & Learning Committee
 - penalties, or not, decided as appropriate

Penalties

- **PENALTIES:** 2 grade points (on the Honours 22 point scale) will be deducted, every working day or part of a working day thereafter
- *“Work should be penalised at the rate of 2 Schedule A ‘aggregation points’ for each working day (or part day) by which it was submitted after the published deadline. This formula may be applied to a maximum of five working days; work submitted more than five days late should be awarded Grade H.”*
- Mark of 13 (C2) – 1 day late = 11 (D1)
- Mark of 22 (A1) – 6 days late = 0 (H)

Plagiarism - What is it?

Plagiarism: Copying what somebody else has written or taking someone else's idea and trying to pass it off as original Encarta® World English Dictionary ©

Copying from somebody else's work, includes copying from publications, web-sites, your granny, your best mate etc. We are assessing YOUR work; plagiarism is theft

All work must be either your own or the source of the work **MUST** be properly acknowledged

You are not allowed to self-plagiarise = submitting the same thing twice

What does the University do in cases of suspected plagiarism?

- a) For students in first and second year the piece of work in question is investigated by the Head of School and Head of Learning and Teaching who meet with the student to discuss the case. The investigation may extend into other work that has already been assessed.
- b) Outcomes may range from a warning about future conduct to award of zero for the piece of work or for individual courses.
- c) The outcome of the investigation is reported to Senate.
- d) For second offences, and students in third and fourth year, and all post-graduates, the matter is considered by Senate under the Student Code of Conduct.

How do staff recognise plagiarism?

A variety of ways... Essays and Reports are submitted through URKUND software, which can highlight similarity. Staff are “experts” in their field and you will find they recognise an amazing amount of the material you may have copied. Lab work, maps, etc can all yield unacceptable copying

Is there an acceptable level of Plagiarism? No!

A low similarity index in URKUND does not indicate an absence of plagiarism. The similarity highlights a potential problem.

Is copying worse than allowing your work to be copied? No!

Both of these instances will be dealt with severely.

If I simply reference correctly large chunks of text that I have copied, I'll be OK! No!

The University awards degrees on the basis of the student's own work. Staff will be judging your work, not your ability to copy correctly.

Is it true that all cases of plagiarism at honours and postgraduate level are referred to Senate? Yes!

Irrespective of the level of the plagiarism and even if it is a first offence.

See *School guidelines wrt appropriate referencing styles in Earth Science and Geography*, **also** see *Ch. 10 in Overton, T., Johnson, S. and Scott, J. 2011. Study and Communication Skills for the Chemical Sciences, ISBN 978-0-19-953968-0*

Exams

- Important dates
 - 3rd November: Last day to meet with Disability Services to have exam arrangements in place
 - 6th November: Publication of exam timetable
 - 6th-15th December: Exams
 - 23rd January: Results deadline

 - 2nd March: Last day to meet with Disability Services to have exam arrangements in place
 - 16th March: Publication of exam timetable
 - 23rd April to 18th May: Exams
 - 12th June: Results deadline

Roles/Contacts & Problems

- Course Leader – course issues
- Your Adviser of Studies – pastoral issues
- Head of 2nd Year
 - John MacDonald
- Head of Earth Science Teaching
 - Cristina Persano
- Head of Teaching
 - Simon Naylor

Roles/Contacts & Problems

- Class Reps
 - Point of reference for students
 - Bi-weekly meetings with John MacDonald
 - Student-Staff Liaison Committee Meetings (4/5 year)
 - Volunteer to be class rep in first lab, 2 reps from each lab group
- SRC Rep
 - tbc, schoolrep-geoeath@src.gla.ac.uk