School of Earth & Environmental Sciences

EESC101: Planet Earth

Subject Outline
Autumn, 2016
On-Campus / Flexible
Wollongong

Subject Information
Credit Points: 6
Pre-requisite(s): Nil
Co-requisite(s): Nil
Restrictions: Nil
Contact Hours: 2 x 1hr lecture / Q&A (repeat of same content), 1 x 3 hr practical per week

Subject Contacts
Subject Coordinator/Lecturer

<table>
<thead>
<tr>
<th>Name:</th>
<th>Prof Allen Nutman</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location:</td>
<td>Building 41, Room 162</td>
</tr>
<tr>
<td>Telephone:</td>
<td>61 2 4221 1347</td>
</tr>
<tr>
<td>Email:</td>
<td><a href="mailto:allen_nutman@uow.edu.au">allen_nutman@uow.edu.au</a></td>
</tr>
<tr>
<td>Consultation mode and times:</td>
<td>Office, Fridays</td>
</tr>
</tbody>
</table>

Student Support and Advice
For general enquiries please contact StudentHub 41:

Location: 41.138B
Telephone: 61 2 4221 3492
Email: smah-students@uow.edu.au
Student Consultation and Communication

University staff receive many emails each day. In order to enable them to respond to your emails appropriately and in a timely fashion, students are asked to observe basic requirements of professional communication:

Please ensure that you include your full name and student number and identify your practical class or tutorial group in your email so that staff know who they are communicating with and can follow-up personally where appropriate.

Consider what the communication is about

- Is your question addressed elsewhere (e.g. in the subject outline or, on the eLearning site)?
- Is it something that is better discussed in person or by telephone? This may be the case if your query requires a lengthy response or a dialogue in order to address. If so, see consultation times above and/or schedule an appointment.
- Are you addressing your request to the most appropriate person?

Specific email subject title to enable easy identification of issue

- Identify the subject code of the subject you are enquiring about (as staff may be involved in more than one subject) put this in the email subject heading. Add a brief, specific query reference after the subject code where appropriate.

Professional courtesy

- Address the staff member appropriately by name (and formal title if you do not yet know them).
- Use full words (avoid ‘text-speak’ abbreviations), correct grammar and correct spelling.
- Be respectful and courteous.
- Allow 3 – 4 working days for a response before following up. If the matter is legitimately urgent, you may wish to try telephoning the staff member (and leaving a voicemail message if necessary) or inquiring at the School Office.
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Section A: General Information

Subject Learning Outcomes

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<th>On completion of this subject, students should be able to:</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Demonstrate broad and coherent knowledge and understanding of the trends, processes and interactions that have shaped solid planet Earth.</td>
</tr>
<tr>
<td>2. Identify and articulate real world problems pertaining to the science of Geology.</td>
</tr>
<tr>
<td>3. Apply knowledge and fieldwork and laboratory techniques in order to recognise and classify different rocks and minerals.</td>
</tr>
<tr>
<td>4. Interpret and synthesise data on geological maps, to apply to geological processes and evolution.</td>
</tr>
<tr>
<td>5. Communicate geological perspectives and knowledge effectively using appropriate technologies and communication skills.</td>
</tr>
<tr>
<td>6. Demonstrate ethical, professional, public and personal conduct and ability to reflect on own learning within the context of geological sciences.</td>
</tr>
</tbody>
</table>

Subject Description

How does the solid planet Earth function and of what does it consist? This subject provides an introduction to Earth sciences by considering topics such as geological time, the solar system, the interior of Earth, tectonics and structural geology, crystals, minerals, volcanoes and volcanic processes, and characteristics of igneous, sedimentary and metamorphic rocks.

eLearning Space

This subject has materials and activities available via eLearning. To access eLearning you must have a UOW user account name and password, and be enrolled in the subject. eLearning is accessed via SOLS (student online services). Log on to SOLS and then click on the eLearning link in the menu column. For information regarding the eLearning spaces please use the following link:

http://uowblogs.com/moodlelab/files/2013/05/Moodle_StudentGuide-1petpo7.pdf

Lecture, Tutorial, Laboratory Times

All timetable information is subject to variation. Check latest timetabling information on the 'Current Student' webpage on UOW website or log into SOLS to view your personal timetable prior to attending classes.


Timetable information can be accessed from


Key University Dates can be accessed from


Readings, References and Materials

Textbooks

Nil.

Prescribed Readings (includes eReadings):

Nil
Materials:
Equipment for practical classes and the field tutorials:
• Appropriate footwear must be worn in the laboratory; no bare feet, thongs or open-toed shoes (e.g. sandals) are permitted
• Drawing instruments (ruler, eraser, pencils, pens, etc.)
• Hand lens or magnifying glass (preferably x10 or x8)
• Day pack, water bottle, hat, sunglasses and sunscreen for field tutorials
• Sturdy footwear (boots or joggers) for field tutorials
• Clipboard or notebook for field tutorials

Recommended Readings:
The following references complement the prescribed readings and textbooks:


Recommended readings are not intended as an exhaustive list, students should use the Library catalogue and databases to locate additional resources.

Recent Changes to this Subject
i. In assessments, more emphasis on a ‘technical report’ during session, and less emphasis on the end of session exams

Fieldwork Safety Guidelines
The rules below are general rules that are required when participating in practicals which involve fieldwork.

• Before commencing fieldwork you are to ensure that you understand specific procedures and policy related to fieldwork safety.
• You will need to review a Risk Assessment form for the fieldwork to be conducted, then complete a Fieldwork Participant Acknowledgement form before commencing any fieldwork. These materials will be made available by the Subject Coordinator via the subject Moodle site.
• You must inform the Subject Coordinator of any medical conditions which may impact upon your ability to participate in fieldwork before commencing any fieldwork.
• All Reasonable Adjustment cases must be discussed with the Subject Coordinator prior to commencing fieldwork.
• Attendance on field excursions may be denied to students who do not abide by these and other conditions which may be specified by the Subject Coordinator.
<table>
<thead>
<tr>
<th>Week</th>
<th>Commencing</th>
<th>Lecture</th>
<th>Practical Class 1: Topographic maps; Introduction to mineral properties; chemical analyses of minerals.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>29/02/2016</td>
<td>Geosciences and their historical background; Geological Time</td>
<td>practical class 2: Port Kembla area field tutorial #1</td>
</tr>
<tr>
<td>2</td>
<td>07/03/2016</td>
<td>Earth in Space</td>
<td>practical class 3: Basic geological synthetic map; Strike &amp; dip; Symmetry of crystals; Mineral properties</td>
</tr>
<tr>
<td>3</td>
<td>14/03/2016</td>
<td>Crystals; Minerals; Rock forming silicates; Economically important minerals</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>21/03/2016</td>
<td>Earth Structure; Earth Magnetism; Seismology; Gravity</td>
<td>practical class 4: True &amp; apparent dip of geological beds; Essential minerals (i); Synthetic geological maps with dipping strata; Detecting the location of an Earthquake</td>
</tr>
<tr>
<td>5</td>
<td>28/03/2016</td>
<td>Plate Tectonics</td>
<td>practical class 5: Plate tectonic map exercise; Essential minerals (ii); Online Plate Tectonic exercises(s)</td>
</tr>
<tr>
<td>6</td>
<td>04/04/2016</td>
<td>Rock Deformation; Earthquakes; Mountain belts – orogeny; Wilson Cycle</td>
<td>practical class 6: Synthetic geological maps with unconformities, folds and faults; Fold squeeze-box exercise; Essential minerals (iii – last)</td>
</tr>
<tr>
<td>7</td>
<td>11/04/2016</td>
<td>Rock cycle; Igneous Rocks; Volcanoes</td>
<td>practical class 7: Igneous rocks; Igneous rocks on synthetic maps</td>
</tr>
<tr>
<td>8</td>
<td>18/04/2016</td>
<td>Sedimentary rocks and sedimentary basins</td>
<td>practical class 8: Port Kembla area field tutorial #2 – technical report practical work</td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Mid-Session Recess 25th April-29th</strong></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>02/05/2016</td>
<td>Metamorphic rocks and metamorphic environments</td>
<td>practical class 9: Sedimentary rocks and sedimentology</td>
</tr>
<tr>
<td>10</td>
<td>09/05/2016</td>
<td>History of the Earth</td>
<td>practical class 10: Metamorphic rocks; Work on Technical Reports</td>
</tr>
<tr>
<td>11</td>
<td>16/05/2016</td>
<td>Economic geology – past present and future. Case studies on iron, copper, gold, diamonds, hydrocarbons</td>
<td>mineralisation and economic geology exercises</td>
</tr>
<tr>
<td>12</td>
<td>23/05/2016</td>
<td>4.3 billion years of Australian history; Catastrophic events</td>
<td>geological interpretaive exercise using a real geological map; Free revision of practical materials</td>
</tr>
<tr>
<td>13</td>
<td>30/05/2016</td>
<td>NO LECTURES</td>
<td>PRACTICAL EXAMINATION</td>
</tr>
</tbody>
</table>

*The above timetable should be used as a guide only, as it is subject to change. Students will be advised of any changes as they become known.*
# Section B: Assessment

## Assessment Summary

<table>
<thead>
<tr>
<th>Assessment Item</th>
<th>Form of Assessment</th>
<th>Due Date</th>
<th>Return/Feedback Due Dates</th>
<th>Weighting</th>
</tr>
</thead>
<tbody>
<tr>
<td>Assessment 1</td>
<td>Port Kembla geological observations</td>
<td>End of week 2 prac</td>
<td>During week 3 prac</td>
<td>5%</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>Theory exam #1</td>
<td>During week 4 prac</td>
<td>During week 5 prac</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>Recognising Geological Features (virtual fieldwork experience; formative)</td>
<td>During week 6 prac</td>
<td>During week 6 prac</td>
<td>5%</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>Recognising Geological Features (virtual fieldwork experience; summative)</td>
<td>During Week 7 prac</td>
<td>During Week 7 prac</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 5</td>
<td>Port Kembla critical reflection</td>
<td>End of week 8 prac</td>
<td>During week 9 prac</td>
<td>5%</td>
</tr>
<tr>
<td>Assessment 6</td>
<td>Port Kembla technical report</td>
<td>Week 12</td>
<td>During study recess week</td>
<td>30%</td>
</tr>
<tr>
<td>Assessment 7</td>
<td>In-Class Assessment – Practical Exam</td>
<td>Week 13</td>
<td></td>
<td>15%</td>
</tr>
<tr>
<td>Assessment 8</td>
<td>Final Examination</td>
<td>TBA – in exam period</td>
<td>Release of results</td>
<td>20%</td>
</tr>
</tbody>
</table>

### Total Marks 100%

## Details of Assessment Tasks

Assessment tasks will be marked using explicit criteria that are provided below to students prior to submission.

### Assessment 1
- **Port Kembla geological observations**
- **Due date**: End of week 2 practical
- **Weighting**: 5%
- **Submission**: Submit electronically via a Moodle dropbox
- **Type of Collaboration**: Individual Assessment
- **Length**: 15 minutes – answers populate provided proforma
- **Subject Learning Outcomes**: 2, 3
- **Marking Criteria**: The marking criteria will be made available on your eLearning site by week 1 of session.

### Assessment 2
- **Theory exam #1**
- **Due date**: During week 4 practical
- **Weighting**: 10%
- **Submission**: Submit a hardcopy to your tutor/demonstrator in class
- **Type of Collaboration**: Individual Assessment
- **Length**: 30 minutes – answers in UOW exam answer book
- **Subject Learning Outcomes**: 1, 2
- **Marking Criteria**: The marking criteria will be made available on your eLearning site by week 1 of session.
<table>
<thead>
<tr>
<th>Assessment 3</th>
<th>Recognising Geological Features (virtual fieldwork experience; formative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due date</td>
<td>During week 6 practical</td>
</tr>
<tr>
<td>Weighting</td>
<td>5%</td>
</tr>
<tr>
<td>Submission</td>
<td>Computer exercise; Marks entered automatically by computer</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment</td>
</tr>
<tr>
<td>Length</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Subject Learning Outcomes</td>
<td>2, 3</td>
</tr>
<tr>
<td>Marking Criteria</td>
<td>The marking criteria will be made available on your eLearning site by week 1 of session.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment 4</th>
<th>Recognising Geological Features (virtual fieldwork experience; summative)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due date</td>
<td>During week 7 practical</td>
</tr>
<tr>
<td>Weighting</td>
<td>10%</td>
</tr>
<tr>
<td>Submission</td>
<td>Computer exercise; Marks entered automatically by computer</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment</td>
</tr>
<tr>
<td>Length</td>
<td>30 minutes</td>
</tr>
<tr>
<td>Subject Learning Outcomes</td>
<td>2, 3</td>
</tr>
<tr>
<td>Marking Criteria</td>
<td>The marking criteria will be made available on your eLearning site by week 1 of session.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment 5</th>
<th>Port Kembla critical reflection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due date</td>
<td>End of week 8 practical</td>
</tr>
<tr>
<td>Weighting</td>
<td>5%</td>
</tr>
<tr>
<td>Submission</td>
<td>Submit electronically via a Moodle dropdown</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment</td>
</tr>
<tr>
<td>Length</td>
<td>15 minutes</td>
</tr>
<tr>
<td>Subject Learning Outcomes</td>
<td>5, 6</td>
</tr>
<tr>
<td>Marking Criteria</td>
<td>The marking criteria will be made available on your eLearning site by week 1 of session.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Assessment 6</th>
<th>Port Kembla technical report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Due date</td>
<td>During week 12 practical</td>
</tr>
<tr>
<td>Weighting</td>
<td>30%</td>
</tr>
<tr>
<td>Submission</td>
<td>Submit electronically via a Moodle dropdown</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment &amp; Group Project</td>
</tr>
<tr>
<td>Length</td>
<td>Work undertaken from week 8 until week 12</td>
</tr>
<tr>
<td>Subject Learning Outcomes</td>
<td>2, 3, 4, 5, 6</td>
</tr>
<tr>
<td>Marking Criteria</td>
<td>The marking criteria will be made available on your eLearning site by week 1 of session.</td>
</tr>
</tbody>
</table>
**Assessment 7**  
Practical Exam (In-Class Assessment)  
Due date: During week 13 practical  
Weighting: 15%  
Submission: Submit a hardcopy to your tutor/demonstrator in class  
Type of Collaboration: Individual Assessment  
Length: 2 hours  
Subject Learning Outcomes: 2, 3, 4  
Marking Criteria: The marking criteria will be made available on your eLearning site by week 1 of session.

**Assessment 8**  
Final Examination: Theory exam #2  
Due date: TBA – during exam period  
Weighting: 20%  
Submission: Exam papers and answers must be submitted at the conclusion of the exam.  
Type of Collaboration: Individual Assessment  
Length: 2 hours  
Subject Learning Outcomes: 1, 2, 5  
Marking Criteria: The marking criteria will be made available on your eLearning site by week 1 of session.

**Minimum Requirements for a Pass in this Subject**  
To receive a clear pass in this subject a total mark of 50% or more must be achieved. In addition, failure to meet any of the minimum performance requirements is grounds for awarding a Technical Fail (TF) in the subject, even where total marks accumulated are greater than 50%.

The minimum performance requirements for this subject are:

- pass the final exam (Assessment 8)
- pass the practical exam (Assessment 7)
- meet the minimum participation requirements set out below.

**Minimum Student Attendance and Participation**  
Student attendance at practicals is compulsory and students must attend at least 10 of the practical classes. Absences will require the submission of an application for Academic Consideration via SOLS and the presentation of suitable documentation, for example a Medical Certificate, to Student Central as soon as practical. For further details about applying for academic consideration visit the Student Central webpage: [http://www.uow.edu.au/student/central/academicconsideration/index.html](http://www.uow.edu.au/student/central/academicconsideration/index.html)

**Scaling**  
Scaling may occur in this subject at the end of session by the Unit Assessment Committee and/or Faculty Assessment Committee (FAC). Marks will only be scaled to ensure fairness/parity of marking across groups of students. Scaling will not affect any individual student’s rank order within their cohort. For more information refer to Assessment Guidelines – Scaling: [http://www.uow.edu.au/about/policy/UOW058609.html](http://www.uow.edu.au/about/policy/UOW058609.html)
Late Submission

Late submission of an assessment task without an approved extension of the deadline is not acceptable. If you are unable to submit an assessment due to extenuating circumstances (e.g. medical grounds or compassionate grounds), you can make an application for academic consideration. Not all circumstances qualify for academic consideration. For further details about applying for academic consideration visit the Student Central webpage: http://www.uow.edu.au/student/central/academicconsideration/index.html

Late Submission Penalty

Late submission of an assessment task without an approved extension of the deadline is not acceptable. Marks will be deducted for late submission at the rate of 10% of the total possible marks for that particular assessment task per day. This means that if a piece of work is marked out of 100, then the late penalty will be 10 marks per day (10% of 100 possible marks per day). The formula for calculating the late penalty is the total possible marks x 0.10 x number of days late. For the purposes of this policy a weekend (Saturday and Sunday) will be regarded as two days.

For example:

- Student A submits an assessment which is marked out of 100. The assessment is submitted 4 days late. This means that a late penalty of 40 marks will apply (100 x 0.10 x 4). The assessment is marked as per normal out of 100 and is given a mark of 85/100, and then the late penalty is applied. The result is that the student receives a final mark of 45/100 for the assessment (85 (original mark) – 40 marks (late penalty) = 45/100 (final mark)).

- Student B submits a report which is marked out of 20. The report is submitted three days late. This means that a late penalty of 6 marks will apply ((20 x 0.10 x 3). The report is marked as per normal out of 20 and is given a mark of 15/20, and then the late penalty is applied. The result is that the student receives a final mark of 9/20 for the report (15 (original mark) – 6 marks (late penalty) = 9/20 (final mark)).

No marks will be awarded for work submitted after the assessment has been returned to the students (except where a particular assessment task is undertaken by students at different times throughout the session, but where the assessment is based on experiments or case studies specific to a student). Notwithstanding this, students must complete all assessment tasks to a satisfactory standard and submit them, regardless of lateness or loss of marks, where submission is a condition of satisfactorily completing the subject.

Supplementary Assessments

Supplementary assessment may be offered to students whose performance in this subject is close to that required to pass the subject, and are otherwise identified as meriting an offer of a supplementary assessment. The precise form of supplementary assessment will be determined at the time the offer of a supplementary assessment is made.

Students can log on to SOLS and click on the link titled “Supplementary Assessment” to view any applicable offers or use the following link; http://www.uow.edu.au/student/exams/suppassess/index.html

System of Referencing Used for Written Work

The Author-Date (Harvard) referencing system should, unless otherwise specified for a particular assessment (check Details of Assessment Tasks), be utilised. A summary of the Harvard system can be accessed on the Library website at: http://public01.library.uow.edu.au/refcite/style-guides/html/
Use of Internet Sources
Students are able to use the Internet to access the most current information on relevant topics and information. Internet sources should only be used after careful critical analysis of the currency of the information, the role and standing of the sponsoring institution, reputation and credentials of the author, the clarity of the information and the extent to which the information can be supported or ratified by other authoritative sources.

Plagiarism
The full policy on Academic Integrity and Plagiarism is found in the Policy Directory on the UOW website.

“The University’s Academic Integrity and Plagiarism Policy, Faculty Handbooks and subject guides clearly set out the University's expectation that students submit only their own original work for assessment and avoid plagiarising the work of others or cheating. Re-using any of your own work (either in part or in full) which you have submitted previously for assessment is not permitted without appropriate acknowledgement. Plagiarism can be detected and has led to students being expelled from the University.

The use by students of any website that provides access to essays or other assessment items (sometimes marketed as ‘resources’), is extremely unwise. Students who provide an assessment item (or provide access to an assessment item) to others, either directly or indirectly (for example by uploading an assessment item to a website) are considered by the university to be intentionally or recklessly helping other students to cheat. This is considered academic misconduct and students place themselves at risk of being expelled from the University.”

Submission of Assessments
Refer to the submission requirements under the details of the individual assessments. Students should ensure that they receive a receipt acknowledging submission. Students will be required to produce this in the event that an assessment task is considered to be lost. Students are also expected to keep a copy of all their submitted assessments in the event that re-submission is required.

Assessment Return
Students will be notified when they can collect or view their marked assessment. In accordance with University Policy marked assessments will usually only be held for 21 days after the declaration of marks for that assessment.
Section C: General Advice

Students should refer to the Faculty of Science, Medicine and Health website for information on policies, learning and support services and other general advice.

University Policies
Students should be familiar with the following University policies:

- a. Code of Practice – Teaching and Assessment

- b. Student Charter

- c. Code of Practice – Student Professional Experience, where relevant

- d. Academic Integrity and Plagiarism Policy

- e. Student Academic Consideration Policy

- f. Course Progress Policy

- g. Graduate Qualities Policy

- h. Academic Complaints Policy (Coursework and Honours Students)

- i. Policy and Guidelines on Non-Discriminatory Language Practice and Presentation

- j. Workplace Health and Safety, where relevant

Student Support Services and Facilities
Students can access information on student support services and facilities at the following link. This includes information on "Academic Support", "Starting at University", "Help at University" as well as information and support on "Career's and Jobs". http://www.uow.edu.au/student/services/index.html

Peer Assisted Study Sessions (PASS)
Peer Assisted Study Sessions are available for EESC101 in Autumn semester in 2016

Whether you are a top performer or could use some improvement, you will benefit from the skills and understanding gained from attending PASS. Think “Super Group” learning! PASS sessions are facilitated by senior students who have excelled in this subject. Many students each year find this subject challenging, and PASS has a strong record of helping students to succeed. In 2015, students who attended PASS five or more times for EESC101 achieved 9 better on average than non-attending students. None of the students that attended five or more times failed. To find out more about the multi award winning PASS Program, or to see the PASS timetable, go to:
http://www.uow.edu.au/student/services/pass
Student Etiquette
Guidelines on the use of email to contact teaching staff, mobile phone use in class and information on the university guide to eLearning ‘Netiquette’ can be found at http://www.uow.edu.au/student/elearning/netiquette/index.html

Version Control Table

<table>
<thead>
<tr>
<th>Version Control</th>
<th>Release Date</th>
<th>Author/Reviewer</th>
<th>Approved By</th>
<th>Amendment</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>20160115</td>
<td>Allen Nutman – Subject Coordinator</td>
<td>Sonia Losinno – ADE Nominee</td>
<td>FINAL EESC101 Autumn 2016 Subject Outline</td>
</tr>
</tbody>
</table>