School of Earth & Environmental Sciences

EESC303: Fluvial Geomorphology and Sedimentology

Subject Outline
Autumn, 2016
On-Campus / Flexible
Wollongong

Subject Information
Credit Points: 8
Pre-requisite(s): 12 cps of 200-level EESC subjects, normally including EESC204 and EESC202
Co-requisite(s): Nil
Restrictions: Nil
Contact Hours: 1 x 1hr Lecture; 1 x 4hr Lecture/Practical

Subject Contacts
Subject Coordinator/Lecturer
Name: Dr Tim Cohen
Location: Building 41, Room G32
Telephone: 61 2 4239 2375
Email: tim_cohen@uow.edu.au
Consultation mode and times: Friday 2.30 – 4.30 pm or Email for appointment

Lecturer/Demonstrator/Tutor
Name: A/PR Brian Jones
Location: Building 41, Room 158a
Telephone: 61 2 4221 3803
Email: brian_jones@uow.edu.au
Consultation mode and times: Email for appointment

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>
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</thead>
<tbody>
<tr>
<td>1. Demonstrate understanding of introductory fluid mechanics, sediment transport and deposition</td>
</tr>
<tr>
<td>2. Identify and interpret relationships between fluvial landforms and river processes</td>
</tr>
<tr>
<td>3. Apply knowledge and appropriate techniques to interpret sedimentology sequences using fluvial sediments</td>
</tr>
<tr>
<td>4. Apply appropriate field and laboratory techniques to measure and analyse river morphology and processes</td>
</tr>
<tr>
<td>5. Identify and articulate the characteristics of selected Australian river systems and their hydrology</td>
</tr>
<tr>
<td>6. Apply knowledge and appropriate techniques to determine the impact of human interface, modification and management of rivers</td>
</tr>
<tr>
<td>7. Communicate perspectives in fluvial geomorphology and sedimentology effectively using appropriate technologies and communication skills</td>
</tr>
</tbody>
</table>

Subject Description

Rivers play a dynamic role in shaping the Earth's landforms (geomorphology), constructing sedimentary sequences of economic importance (sedimentology), and presenting flood and erosion hazards, all of which greatly influence human use of the Earth's surface. This subject examines processes forming and modifying contemporary drainage basins, interprets fluvial sedimentary records and relates changes in these records to variations in climate and depositional environment. Attention is given to human modification and the management of river systems.

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. http://www.uow.edu.au/student/index.html

Timetable information can be accessed from http://www.uow.edu.au/student/timetables/info/index.html

Key University Dates can be accessed from http://www.uow.edu.au/student/dates/index.html

Readings, References and Materials

Textbooks
Nil

Prescribed Readings (includes eReadings):
A series of prescribed readings will be made available to students through the library on the subject’s eLearning site.

Materials:
Enclosed, sturdy shoes must be worn in the practical laboratory and on field trips. Further, on all field trips you are required to bring: all weather boots, raincoat, notebook, camera, hat, sunscreen, sun glasses and insect repellent. A more detailed outline will be provided prior to any field work.

Recommended Readings:
The following references complement the prescribed readings:

Some of the above references are available online if you do a Google search.

  http://www.riverstyles.com/georiv.php


In addition the following will be useful resources to turn to at various segments of the course:


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
Update to subject learning outcomes and assessment tasks.

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.
- 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.
## Schedule of Learning*

<table>
<thead>
<tr>
<th>Week</th>
<th>Week Commencing</th>
<th>Lecture</th>
<th>Practical Class</th>
<th>Theme</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>29/02/2016</td>
<td>Drainage networks &amp; catchment processes</td>
<td>Flume + Virtual Illawarra</td>
<td>TRANSPORT RULES &amp; FUNDAMENTALS</td>
</tr>
<tr>
<td>2</td>
<td>07/03/2016</td>
<td>Fluid flow</td>
<td>Cabbage Tree Creek</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>14/03/2016</td>
<td>Fluid flow and sediment transport</td>
<td>Fluid Mechanics</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>21/03/2016</td>
<td>Resistance in Rivers</td>
<td>No PRACTICAL – Easter Friday</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>28/03/2016</td>
<td>Extreme events</td>
<td>Sediment transport</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>04/04/2016</td>
<td>Alluvial rivers and their planforms</td>
<td>Hydrology – discharge</td>
<td>FLUVIAL LANDFORMS</td>
</tr>
<tr>
<td>7</td>
<td>11/04/2016</td>
<td>Rivers and their floodplains</td>
<td>Hydrology – rainfall</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>18/04/2016</td>
<td>Channel migration</td>
<td>Channel migration</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td><strong>Mid-Session Recess 25th April-29th April – Mid-session field trip</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>02/05/2016</td>
<td>River deposits in the rock record</td>
<td>Scarborough field trip</td>
<td>RIVERS IN THE ROCK RECORD</td>
</tr>
<tr>
<td>10</td>
<td>09/05/2016</td>
<td>Geophysical techniques in sedimentology</td>
<td>Coleambally + palaeohydrology</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>16/05/2016</td>
<td>Human impacts on rivers</td>
<td>Hydraulic geometry</td>
<td>HUMAN IMPACTS</td>
</tr>
<tr>
<td>12</td>
<td>23/05/2016</td>
<td>Human impacts on rivers</td>
<td>Re-introducing wood into rivers</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>30/05/2016</td>
<td>River rehabilitation</td>
<td>Review practical</td>
<td>REVIEW</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.

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*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>Illawarra streams – channel geometry</td>
<td>21\textsuperscript{st} March</td>
<td>1\textsuperscript{st} April</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 2</td>
<td>Fluid Mechanics Quiz</td>
<td>3\textsuperscript{rd} April</td>
<td>15\textsuperscript{th} April</td>
<td>10%</td>
</tr>
<tr>
<td>Assessment 3</td>
<td>Geomorphology field trip: a. field and post field data and synthesis report b. Interpretation report</td>
<td>9\textsuperscript{th} May 23\textsuperscript{rd} May</td>
<td>20\textsuperscript{th} May 7\textsuperscript{th} June</td>
<td>30%</td>
</tr>
<tr>
<td>Assessment 4</td>
<td>Scarborough and Bundeena Field Trip Report</td>
<td>16\textsuperscript{th} May 30\textsuperscript{th} May</td>
<td>3\textsuperscript{rd} June</td>
<td>20%</td>
</tr>
<tr>
<td>Assessment 5</td>
<td>Final Theory Exam</td>
<td>UOW Exam Week</td>
<td>Release of results</td>
<td>30%</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**
- **Illawarra streams – channel geometry**
- **Due date**: Monday 21\textsuperscript{st} March
- **Weighting**: 10\%  
- **Submission**: Submit an electronic copy of your assessment via upload to elearning  
- **Type of Collaboration**: Individual Assessment  
- **Length**: 500 words  
- **Style and format**: Short practical report  
- **Subject Learning Outcomes**: 1, 2  
- **Marking Criteria**: The marking criteria will be made available on your eLearning site by week 1 of session.

**Assessment 2**
- **Fluid mechanics quiz**
- **Due date**: Sunday 3\textsuperscript{rd} April
- **Weighting**: 10\%  
- **Submission**: Submit an electronic copy via elearning  
- **Type of Collaboration**: Individual Assessment  
- **Length**: 10 online questions – 1 hour  
- **Details**: Online multiple choice questions with calculations  
- **Style and format**: Online quiz  
- **Subject Learning Outcomes**: 1  
- **Marking Criteria**: The marking criteria will be made available on your eLearning site by week 1 of session.
### Assessment 3

<table>
<thead>
<tr>
<th>Due date</th>
<th>Geomorphology field trip or alternative assignment</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part A - Monday 9th May</td>
<td></td>
</tr>
<tr>
<td>Part B - Monday 23rd May</td>
<td></td>
</tr>
<tr>
<td>Weighting</td>
<td>30% (15% + 15%)</td>
</tr>
<tr>
<td>Submission</td>
<td>Submit an electronic copy of your assessment via upload to elearning</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment - Group Project</td>
</tr>
<tr>
<td>Length</td>
<td>Part A: data compilation – 1 to 2 excel worksheets with worked examples</td>
</tr>
<tr>
<td></td>
<td>Part B: Interpretation report – 4 pages maximum (including no more than 3 figures)</td>
</tr>
<tr>
<td>Details</td>
<td>Minnamurra/Macquarie Rivulet Geomorphology Field Trip Report</td>
</tr>
<tr>
<td>Style and format</td>
<td>Part A: field and post field data and synthesis – excel compilation</td>
</tr>
<tr>
<td></td>
<td>Part B: Interpretation report</td>
</tr>
<tr>
<td>Subject Learning Outcomes</td>
<td>2, 3, 4, 5, 6 and 7</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 4

<table>
<thead>
<tr>
<th>Due date</th>
<th>Scarborough and Bundeena Field Trip Reports or alternative literature reviews</th>
</tr>
</thead>
<tbody>
<tr>
<td>16th May</td>
<td></td>
</tr>
<tr>
<td>30th May</td>
<td></td>
</tr>
<tr>
<td>Weighting</td>
<td>20% (10% + 10%)</td>
</tr>
<tr>
<td>Submission</td>
<td>Submit an electronic copy of your assessment via upload to Turnitin</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment - Group Project</td>
</tr>
<tr>
<td>Length</td>
<td>2 x 1000 words</td>
</tr>
<tr>
<td>Details</td>
<td>Reports on the fluvial sequences at Scarborough and Bundeena</td>
</tr>
<tr>
<td>Style and format</td>
<td>Report</td>
</tr>
<tr>
<td>Subject Learning Outcomes</td>
<td>2, 3, 4, 5 and 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 5

<table>
<thead>
<tr>
<th>Due date</th>
<th>Final Theory Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>UOW Exam Period</td>
<td></td>
</tr>
<tr>
<td>Weighting</td>
<td>30%</td>
</tr>
<tr>
<td>Submission</td>
<td>Exam papers and answers must be submitted at the conclusion of the exam</td>
</tr>
<tr>
<td>Type of Collaboration</td>
<td>Individual Assessment</td>
</tr>
<tr>
<td>Subject Learning Outcomes</td>
<td>1, 2, 3, 4, 5, 6 and 7</td>
</tr>
</tbody>
</table>

### 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:

- attempt all assessment tasks
- satisfactory performance of all assessment tasks
- pass the final exam
Minimum Student Attendance and Participation
It is expected that students will allocate 16 hrs per week (based on 8 credit points @ 2 hours per credit point), including any required class attendance, completion of prescribed readings and assessment tasks.

Student attendance at practicals is compulsory and students must attend 100% of 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)

Student attendance at field trips is not compulsory but is strongly recommended. Students who do not attend field trips will be required to complete a supplementary assessment task.

Field Trips: There are two half day and two full day field trips in this course. Two of these (3 & 4) will examine the older fluvial strata of the Sydney Basin, whilst the other two will examine sedimentology, channel flow, channel and floodplain morphology and aspects of river management in the Illawarra.

1. Cabbage Tree Creek field trip - geomorphology and stream flow parameters, 9.00am – 1.30 pm, Friday 11th March (during Friday lecture & practical time).
2. Minnamurra field trip - geomorphology and sedimentology of the Minnamurra River, 7.30am – 5.30pm on Thursday 28th April or Friday 29th April. You will be expected to nominate for this trip online within the first two weeks of class.
3. Kembla Sandstone field trip at Scarborough (shore platform), 9.30am - 1.30pm;
4. Hawkesbury Sandstone field trip near Bundea, Royal National Park, on Saturday or Sunday from 8.30am – 3.30pm; date to be advised. You will be expected to nominate for this trip online within the first four weeks of class.

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 of 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](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:

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. Academic Integrity and Plagiarism Policy

d. Student Academic Consideration Policy

e. Course Progress Policy

f. Graduate Qualities Policy

g. Academic Complaints Policy (Coursework and Honours Students)

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

i. Workplace Health and Safety, where relevant

j. Intellectual Property Policy

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

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>20151205</td>
<td>Dr Tim Cohen – Subject Coordinator</td>
<td>Mrs Sonia Losinno – ADE Nominee</td>
<td>FINAL EESC303 Autumn 2016 Subject Outline</td>
</tr>
</tbody>
</table>