



concepts of fluid mechanic and open channel flows.

- to provide you with an understanding of cohesionless sediment transport and how to make predictions

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For each hour of contact it is expected that you will put in at least 1.5 hours of private study.

<b>COURSE PROGRAM</b>
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**Term 2 2021**

<b>Date</b>	<b>Topic</b>	<b>Lecture Content</b>	<b>Demonstration Content</b>
31/05/2021 (Week 1)	Catchment hydrology and modelling	LM	
07/06/2021 (Week 2)	Catchment modelling continued	LM	Online Quiz

The final grade for this course will normally be based on the sum of the scores from each of the assessment tasks. ~~Final Mark = (10% of 1st Assignment + 10% of 2nd Assignment + 10% of 3rd Assignment + 10% of 4th Assignment + 10% of 5th Assignment + 10% of 6th Assignment + 10% of 7th Assignment + 10% of 8th Assignment + 10% of 9th Assignment + 10% of 10th Assignment) + 10% of Final Math class work (Online Quiz) - 1. (1) (ii) - 1222.3e - 1232 r(a) J00806~~



## RELEVANT RESOURCES

There is no textbook for this course but a number of recommended reference books for this course are indicated below - there will be further recommended reading indicated within the lecture notes and course delivery

- Ladson, A. (2008). Hydrology - An Australian Introduction. Oxford University Press, South Melbourne, ISBN: 978019555358
- Maidment, D.R (1993). Handbook of Hydrology. McGraw-Hill. ISBN: 9780070397323
- White, F.M. (2011). Fluid Mechanics, 7<sup>th</sup> edition, McGraw-Hill, ISBN 978 07 1286 459.
- Chanson, H. (2004). "The Hydraulics of open channel flow: an introduction", Butterworth-Heinemann, Oxford, UK, 2nd edition (ISBN 0 7506 5978 5).
- Akan, A.O. (2006). Open Channel Hydraulics, Butterworth-Heinemann, ISBN 978 0 7506 6857 6.
- Van Rijn, L.C. (1993). Principles of Sediment Transport in Rivers, Estuaries and Coastal Seas, AQUA Publications, Amsterdam, ISBN 90 800356 2 9
- Henderson, F.M. (1966). Open Channel Flow, Macmillan, New York.
- Bos, M.G. (1989). "Discharge measurement structures" – ILRI Publication 20, 3<sup>rd</sup> edition, Wageningen, The Netherlands, ISBN 9070754150

## DATES TO NOTE

Refer to MyUNSW for Important Dates available at:

<https://student.unsw.edu.au/dates>

## PLAGIARISM

Beware! An assignment that includes plagiarised material will receive a 0% Fail, and students who plagiarise may fail the course. Students who plagiarise are also liable to disciplinary action, including exclusion from enrolment.

Plagiarism is the use of another person's work or ideas as if they were your own. When it is necessary or desirable to use other people's material you should adequately acknowledge whose words or ideas they are and where you found them (giving the complete reference details, including page number(s)). The Learning Centre provides further information on what constitutes Plagiarism at:

<https://student.unsw.edu.au/plagiarism>

## ACADEMIC ADVICE

For information about:

- Notes on assessments and plagiarism;
- Special Considerations: [student.unsw.edu.au/special-consideration](https://student.unsw.edu.au/special-consideration);
- General and Program-specific questions: [The Nucleus: Student Hub](#)
- Year Managers and Grievance Officer of Teaching and Learning Committee, and
- CEVSOC/SURVSOC/CEPCA

Refer to Key Contacts on the Faculty website available at

<https://www.unsw.edu.au/engineering/student-life/student-resources/key-contacts>

**Appendix A: Engineers Australia (EA) Competencies**

	<b>Program Intended Learning Outcomes</b>
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**PE1: Knowledge**