

625-307 Hydrogeology

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| Credit Points: | 12.50 |
| Level: | 3 (Undergraduate) |
| Dates & Locations: | 2009, This subject commences in the following study period/s: Semester 1, - Taught on campus. Lectures, practical classes and field excursion. |
| Time Commitment: | Contact Hours: Between 20 and 24 hours of lectures (two per week), 20 hours of practicals (two hours per week) and a field excursion Total Time Commitment: 120 hours total time commitment. |
| Prerequisites: | None |
| Corequisites: | None |
| Recommended Background Knowledge: | At least 25 points selected from Earth Sciences subjects 625-202, 625-222, 625-223 are recommended. |
| Non Allowed Subjects: | None |
| Core Participation Requirements: | It is University policy to take all reasonable steps to minimise the impact of disability upon academic study and reasonable steps will be made to enhance a student's participation in the University's programs. This subject requires all students to actively and safely participate in practical classes and field excursions. Students who feel their disability may impact upon their participation are encouraged to discuss this with the subject coordinator and the Disability Liaison Unit. |
| Coordinator: | Dr John William Moreau |
| Subject Overview: | This subject will introduce students to the principles of groundwater flow in aquifer systems, how we use groundwater resources, and processes by which these resources are protected, contaminated and restored. Topics covered include: an introduction to how groundwater flows in steady state and transient environments; controls on groundwater quality; principles of contaminant movement and transformation in groundwater; and prevention, management and remedial strategies to minimise the potential impacts of human activities. |
| Objectives: | Upon completion of this subject, students should have an understanding of the basic principles of groundwater flow, how groundwater quality can be affected, sources and chemical behaviour of common contaminants in groundwater, and the management and clean-up of contaminated groundwater. |
| Assessment: | Four practical assignments totalling up to 3000 words due during the semester (total 40% - individual weighting of each assignment is announced in the first week of class); a 2-hour written examination in the examination period (60%). |
| Prescribed Texts: | None |
| Breadth Options: | This subject potentially can be taken as a breadth subject component for the following courses: <ul style="list-style-type: none"> # Bachelor of Arts (https://handbook.unimelb.edu.au/view/2009/D09) # Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2009/F04) # Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04) # Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05) You should visit learn more about breadth subjects (http://breadth.unimelb.edu.au/breadth/info/index.html) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects. |
| Fees Information: | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |

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| Notes: | This subject is available for science credit to students enrolled in the BSc (pre-2008 degree only), BAsC or a combined BSc course. <i>Hydrogeology</i> was 625-307 Hydrogeology and Environmental Management prior to 2009. |
| Related Majors/Minors/ Specialisations: | Environmental Science Geology |