

421-209 Geomechanics 1

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| Credit Points: | 12.500 |
| Level: | Undergraduate |
| Dates & Locations: | 2008, This subject commences in the following study period/s: Semester 2, - Taught on campus. |
| Time Commitment: | Contact Hours: Forty-two hours of lectures and tutorials, six hours of laboratory classes Total Time Commitment: Not available |
| Prerequisites: | 421-103 Engineering Statics |
| Corequisites: | None |
| Recommended Background Knowledge: | None |
| Non Allowed Subjects: | None |
| Core Participation Requirements: | <p><p>For the purposes of considering request for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005), and Student Support and Engagement Policy, academic requirements for this subject are articulated in the Subject Overview, Learning Outcomes, Assessment and Generic Skills sections of this entry.</p> <p><p>It is University policy to take all reasonable steps to minimise the impact of disability upon academic study, and reasonable adjustments will be made to enhance a student's participation in the University's programs. Students who feel their disability may impact on meeting the requirements of this subject are encouraged to discuss this matter with a Faculty Student Adviser and Student Equity and Disability Support: http://services.unimelb.edu.au/disability</p></p> </p> |
| Coordinator: | Sam Yen |
| Subject Overview: | Topics include soil and rock identification, mineral composition and classification; discontinuities in rock masses; water in soil; principle of effective stress; stress transmission; confined and unconfined flow of water through soils; Darcy's law, seepage; dispersive and swelling soils; compressibility of soil and settlement of structures; consolidation; strength of soils and rocks; earth pressure; and active, passive and at-rest earth pressures. applications in environmental engineering and civil engineering. |
| Assessment: | One 3-hour end of semester written examination (70%), two assignments of up to 2000 words each due at half and two-thirds of the way through the semester (20%), together with two laboratory reports of up to 1000 words each scheduled throughout the semester (10%). |
| Prescribed Texts: | None |
| Breadth Options: | This subject is not available as a breadth subject. |
| Fees Information: | Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees |
| Notes: | Students enrolled in the BSc (pre-2008 BSc), BASc or a combined BSc course will receive science credit for the completion of this subject. |
| Related Course(s): | Bachelor of Engineering (Civil Engineering) Bachelor of Engineering (Civil) and Bachelor of Arts Bachelor of Engineering (Civil) and Bachelor of Commerce Bachelor of Engineering (Civil) and Bachelor of Laws Bachelor of Engineering (Civil) and Bachelor of Science Bachelor of Engineering (EngineeringManagement) Civil Bachelor of Engineering (EngineeringManagement) Environmental Bachelor of Engineering (Environmental Engineering) Bachelor of Engineering (Environmental) and Bachelor of Arts |

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