

421-482 Analysis & Design-Environmental Systems

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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: Twelve hours of lectures, thirty-six hours of design classes and eight-hours of site visits. Total Time Commitment: Not available |
| Prerequisites: | 421-490 Quantification of Physical Processes A, 421-491 Quantification of Physical Processes B and 421-322 Environmental Engineering Design 1 |
| 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>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> |
| Coordinator: | Robert Argent |
| Subject Overview: | <p>At the conclusion of this subject students should be able to identify the processes in the environment that impinge on a range of practical problems they will encounter in their career. With this skill and foundation theory of physical hydrology, design and management, they will be able to develop solutions to these problems.</p> <p>Typical problems may include irrigation and drainage design, hydro-geological problems such as landfill containment, catchment management, stream rehabilitation and rehabilitation of degraded land such as mine sites.</p> |
| Assessment: | Three written group reports (30% each due at end of weeks 3, 8 and 11, and one assignment (10% due in week 12) not exceeding 20 pages each inclusive of diagrams, tables, computations and computer output). Students must attend the site units and achieve a pass on each report in order to pass the subject. |
| 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 |
| Generic Skills: | <ul style="list-style-type: none"> # ability to apply knowledge of basic science and engineering fundamentals # in-depth technical competence in at least one engineering discipline # ability to undertake problem identification, formulation and solution # expectation of the need to undertake lifelong learning, capacity to do so |

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| | # capacity for independent critical thought, rational inquiry and self-directed learning |
| Related Course(s): | Bachelor of Engineering (EngineeringManagement) Environmental Bachelor of Engineering (Environmental Engineering) Bachelor of Engineering (Environmental) and Bachelor of Arts Bachelor of Engineering (Environmental) and Bachelor of Commerce Bachelor of Engineering (Environmental) and Bachelor of Laws Bachelor of Engineering (Environmental) and Bachelor of Science |