

## 600-301 Problem Solving in Environmental Science

<b>Credit Points:</b>	12.50
<b>Level:</b>	3 (Undergraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus. Lecture and practicals/tutorials.
<b>Time Commitment:</b>	Contact Hours: 24 lectures (two per week) and 18 hours of practicals/tutorials Total Time Commitment: 120 hours total time commitment.
<b>Prerequisites:</b>	<i>Environmental Risk Assessment.</i>
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	A statistics subject is strongly recommended.
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	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. Students who feel their disability may impact upon their active and safe participation in a subject are encouraged to discuss this with the relevant subject coordinator and the Disability Liaison Unit.
<b>Coordinator:</b>	Prof Michael Keough
<b>Subject Overview:</b>	Students completing this subject should have an appreciation of environmental decision-making and the role of scientists in that process, and should understand the methodologies used for the assessment of human impacts on the natural environment. They should be familiar with the statistical principles underlying the design of environmental impact assessment and monitoring, and have experience in conducting and presenting the results of a multidisciplinary research project in environmental impact assessment. The subject includes methods of hypothesis development, experimental design and testing in environmental impact assessment, design and analysis of sampling and monitoring programs and their subsequent analysis, and evaluating proposed solutions for their technical feasibility and risk.
<b>Objectives:</b>	.
<b>Assessment:</b>	Written essay work totalling 3000 words due during the semester (30%); two 10-minute oral presentations during the semester (10% total); a 3-hour written examination in the examination period (60%).
<b>Prescribed Texts:</b>	None
<b>Breadth Options:</b>	This subject potentially can be taken as a breadth subject component for the following courses: # <b>Bachelor of Arts</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/D09">https://handbook.unimelb.edu.au/view/2009/D09</a> ) # <b>Bachelor of Commerce</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/F04">https://handbook.unimelb.edu.au/view/2009/F04</a> ) # <b>Bachelor of Environments</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/A04">https://handbook.unimelb.edu.au/view/2009/A04</a> ) # <b>Bachelor of Music</b> ( <a href="https://handbook.unimelb.edu.au/view/2009/M05">https://handbook.unimelb.edu.au/view/2009/M05</a> ) You should visit <b>learn more about breadth subjects</b> ( <a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a> ) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.
<b>Fees Information:</b>	Subject EFTSL, Level, Discipline & Census Date, <a href="http://enrolment.unimelb.edu.au/fees">http://enrolment.unimelb.edu.au/fees</a>

<b>Notes:</b>	Students enrolled in the BSc (pre-2008 BSc), BAsc or a combined BSc course will receive science credit for the completion of this subject.
<b>Related Majors/Minors/ Specialisations:</b>	Environmental Science Environmental Science