

## EVSC30003 Environmental Risk Assessment

<b>Credit Points:</b>	12.50
<b>Level:</b>	3 (Undergraduate)
<b>Dates &amp; Locations:</b>	2010, Parkville This subject commences in the following study period/s: Semester 1, Parkville - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: 2 x one hour lectures per week; and 24 hours of practical/tutorials during semester Total Time Commitment: Estimated total time commitment of 120 hours
<b>Prerequisites:</b>	None
<b>Corequisites:</b>	A statistics, mathematics or quantitative methods subject
<b>Recommended Background Knowledge:</b>	None
<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>	Dr Terry Walshe
<b>Contact:</b>	Email: <a href="mailto:twalshe@unimelb.edu.au">twalshe@unimelb.edu.au</a> ( <a href="mailto:twalshe@unimelb.edu.au">mailto:twalshe@unimelb.edu.au</a> )
<b>Subject Overview:</b>	The subject includes an outline of the framework for applying the concepts of risk assessment to achieve management goals. Students will learn how to perform fundamental exposure, hazard and ecological risk assessment procedures. The subject content includes the psychology and history of risk perception, exposure pathways, models for environmental toxicology, Australian standards for risk assessment, response surfaces, indicator species and exemplars, test endpoints, assessment endpoints and management goals, extrapolations among taxa, interval arithmetic, empirical modelling, parameter estimation, and risk assessment.
<b>Objectives:</b>	Students completing this subject should be familiar with the concept of exposure pathways; understand the ecological processes associated with contamination in aquatic and terrestrial ecosystems; and be able to develop empirical models and estimate exposures and responses in ecological systems
<b>Assessment:</b>	A written assignment of up to 2000 words (20%); practical tasks throughout the semester (20%), 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/2010/B-ARTS">https://handbook.unimelb.edu.au/view/2010/B-ARTS</a> ) # <b>Bachelor of Commerce</b> ( <a href="https://handbook.unimelb.edu.au/view/2010/B-COM">https://handbook.unimelb.edu.au/view/2010/B-COM</a> ) # <b>Bachelor of Environments</b> ( <a href="https://handbook.unimelb.edu.au/view/2010/B-ENVS">https://handbook.unimelb.edu.au/view/2010/B-ENVS</a> ) # <b>Bachelor of Music</b> ( <a href="https://handbook.unimelb.edu.au/view/2010/B-MUS">https://handbook.unimelb.edu.au/view/2010/B-MUS</a> )  You should visit <a href="http://breadth.unimelb.edu.au/breadth/info/index.html">learn more about breadth subjects (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>	This subject is available for science credit to students enrolled in the BSc (both pre-2008 and new degrees), BAsC or a combined BSc course.
<b>Related Course(s):</b>	Bachelor of Science
<b>Related Majors/Minors/ Specialisations:</b>	Ecology and Evolutionary Biology Environmental Science Environmental Science Environmental Science