EVSC30003 Environmental Risk Assessment

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	This subject is not offered in 2014.
Time Commitment:	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
Prerequisites:	A tertiary level statistics, mathematics or quantitative methods subject. Prerequisites may be taken concurrently. NB. Neither MAST10012 Introduction to Mathematics nor UMEP Mathematics for High Achieving Students is accepted as a prerequisite.
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	For the purposes of considering applications for Reasonable Adjustments under the Disability Standards for Education (Cwth 2005) and Students Experiencing Academic Disadvantage Policy, this subject requires all students to actively and safely participate in practical work activities. Students who feel their disability may impact upon their participation are encouraged to discuss this with the Subject Coordinator and the Disability Liaison Unit. http://www.services.unimelb.edu.au/disability/
Contact:	Email: **twalshe@unimelb.edu.au (mailto:twalshe@unimelb.edu.au)**
Subject Overview:	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.
Learning Outcomes:	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
Assessment:	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%)
Prescribed Texts:	None
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: # **Bachelor of Arts (https://handbook.unimelb.edu.au/view/2014/B-ARTS)** # **Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2014/B-COM)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2014/B-ENVS)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2014/B-MUS)** 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

Notes:	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.
Related Majors/Minors/ Specialisations:	Ecology and Evolutionary Biology Environmental Science Environmental Science major Environments Discipline subjects Forest Science Science credit subjects* for pre-2008 BSc, BASc and combined degree science courses Science-credited subjects - new generation B-SCI and B-ENG. Selective subjects for B-BMED
Related Breadth Track(s):	Environmental Science