300-312 Actuarial Modelling I

Credit Points:	12.50
Level:	3 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus.
Time Commitment:	Contact Hours: Three hours of lectures and/or tutorials per week Total Time Commitment: Not available
Prerequisites:	For students who started their degree in 2007 or earlier: **300-204 Financial Mathematics II (/view/2009/300-204)** , **620-202 Statistics (/view/2009/620-202)** and one of 620-113 Applied Mathematics (Advanced Plus) and 620-123 Applied Mathematics (Advanced). For students who started their degree in 2008 or later: **300-204 Financial Mathematics II (/view/2009/300-204)** and **620-202 Statistics (/view/2009/620-202)** .
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	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. 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
Coordinator:	Daniel Dufresne
Subject Overview:	Topics include survival models concepts; estimation procedures for lifetime distributions; multiple state models; binomial model of mortality; actuarial applications of Markov processes.
Objectives:	.
Assessment:	A 2-hour end of semester examination (80%) and up to three assignments totalling not more than 20 pages (20%).
Prescribed Texts:	None
Recommended Texts:	Information Not Available
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/2009/D09)** # **Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04)** # **Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05)** 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

Generic Skills:	# High level of development: written communication; problem solving; statistical reasoning; application of theory to practice; synthesis of data and other information.
Notes:	Students may not gain credit for both 300-312 Actuarial Modelling I and 300-330 Survival Models: Theory and Applications.