

## 300-312 Actuarial Modelling I

<b>Credit Points:</b>	12.500
<b>Level:</b>	Undergraduate
<b>Dates &amp; Locations:</b>	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: Three hours of lectures and/or tutorials per week Total Time Commitment: Not available
<b>Prerequisites:</b>	For students who started their degree in 2007 or earlier: <b>300-204 Financial Mathematics II (/view/2008/300-204)</b> , <b>620-202 Statistics (/view/2008/620-202)</b> 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: <b>300-204 Financial Mathematics II (/view/2008/300-204)</b> and <b>620-202 Statistics (/view/2008/620-202)</b> .
<b>Corequisites:</b>	None
<b>Recommended Background Knowledge:</b>	None
<b>Non Allowed Subjects:</b>	None
<b>Core Participation Requirements:</b>	<p>&lt;p&gt;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.&lt;/p&gt; <p>&lt;p&gt;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: &lt;a href="http://services.unimelb.edu.au/disability"&gt;http://services.unimelb.edu.au/disability&lt;/a&gt;&lt;/p&gt;</p> </p>
<b>Coordinator:</b>	Professor D Dufresne
<b>Subject Overview:</b>	Topics include survival models concepts; estimation procedures for lifetime distributions; multiple state models; binomial model of mortality; actuarial applications of Markov processes.
<b>Assessment:</b>	A 2-hour end of semester examination (80%) and up to three assignments totalling not more than 20 pages (20%).
<b>Prescribed Texts:</b>	None
<b>Recommended Texts:</b>	Information Not Available
<b>Breadth Options:</b>	<p>This subject is a level 2 or level 3 subject and is not available to new generation degree students as a breadth option in 2008.</p> <p>This subject or an equivalent will be available as breadth in the future.</p> <p>Breadth subjects are currently being developed and these existing subject details can be used as guide to the type of options that might be available.</p> <p>2009 subjects to be offered as breadth will be finalised before re-enrolment for 2009 starts in early October.</p>
<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>Generic Skills:</b>	# 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.