

505-942 Survival Analysis

Credit Points:	12.500
Level:	Graduate/Postgraduate
Dates & Locations:	2008, This subject commences in the following study period/s: Semester 1, - Taught on campus. Distance
Time Commitment:	Contact Hours: None Total Time Commitment: 8 - 12 hours total study time per week
Prerequisites:	505-106 Epidemiology505-105 Mathematics Background for Biostatistics505-107 Principles of Statistical Inference505-940 Linear Models505-975 Probability and Distribution Theory
Corequisites:	None
Recommended Background Knowledge:	None
Non Allowed Subjects:	None
Core Participation Requirements:	<p><p>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.</p> <p><p>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</p></p> </p>
Coordinator:	Biostatistics Collaboration of Australia
Subject Overview:	<p>Topics include: Kaplan-Meier life tables; logrank test to compare two or more groups; Cox's proportional hazards regression model; checking the proportional hazards assumption; time-dependent covariates; sample size calculations for survival studies.</p> <p>Subject Objectives: To enable students to analyse data from studies in which individuals are followed up until a particular event occurs, e.g. death, cure, relapse, making use of follow-up data also for those who do not experience the event, with proper attention to underlying assumptions and a major emphasis on the practical interpretation and communication of results.</p>
Assessment:	Three written assignments to be submitted during semester worth 22.5% each (approx 8 hrs work each).Online participation worth 10% (approx 6 hrs work)One at-home examination at the end of Semester (22.5%, approx 8 hrs)
Prescribed Texts:	Hosmer, D.W. & Lemeshow, S. Applied Survival Analysis. Wiley Interscience 1999. ISBN 0-471-15410-5Special Computer Requirements: Stata statistical software Resources Provided to Students: Printed course notes and assignment material by mail, email, and online interaction facilities.
Recommended Texts:	Cleves M, Gould W, Gutierrez R. An Introduction to Survival Analysis Using Stata, 2004. Stata Press - http://survey-design.com.au/ ISBN 0471154105
Breadth Options:	This subject is not available as a breadth subject.
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	Independent problem solving, facility with abstract reasoning, clarity of written expression, sound communication of technical concepts

	Level: 500
Links to further information:	http://www.sph.unimelb.edu.au
Notes:	This subject is not available in the Master of Public Health. Subject Coordinator: Dr Petra Graham, Dept of Statistics, Macquarie University
Related Course(s):	Master of Biostatistics Postgraduate Certificate in Biostatistics Postgraduate Diploma in Biostatistics