

# Epidemiology and Biostatistics

<b>Year and Campus:</b>	2010																															
<b>Coordinator:</b>	Professor Dallas English																															
<b>Contact:</b>	<p>Centre for Molecular, Environmental, Genetic and Analytic (MEGA) Epidemiology          Tel: +61 3 8344 0671          Email: epi-info@unimelb.edu.au</p> <p>OR</p> <p>Academic Programs Office          Melbourne School of Population Health          Tel: +61 3 8344 9339          Fax: +61 3 8344 0824          Email: sph-gradinfo@unimelb.edu.au</p>																															
<b>Overview:</b>	<p>This specialisation focuses on the core epidemiologic and analytic knowledge and skills that underpin health research and applied epidemiology. Students who specialise in Epidemiology and Biostatistics develop a broad understanding of the value and basic principles of epidemiological methods in public health, evidence-based practice and medical research, including its biostatistical underpinnings. Students develop skills in; study design and appraisal, data management and statistical analyses for handling a variety of practical problems; and the technical skills to practice in applied epidemiology in the public health setting and/or progress to further postgraduate studies in epidemiology and/or biostatistics. Students also have the opportunity to augment basic epidemiology skills with specialist knowledge and techniques in key areas - genetic, molecular and infectious disease epidemiology. Students use the research project as an opportunity to gain further applied experience in epidemiologic and analytic methods, develop higher level skills in specific methods, build networks with practitioners in their area of interest, and to apply their knowledge and skills to a particular research area, disease group, and/or population of interest.</p>																															
<b>Objectives:</b>	-																															
<b>Structure &amp; Available Subjects:</b>	200 Point Program: 14 subjects and a research project 175 Point Program: 12 subjects and a research project 150 Point Program: 10 subjects and a research project																															
<b>Subject Options:</b>	<p><b>Two Core Consortium Subjects</b>          Students intending to specialise in Epidemiology and Biostatistics should take the subjects below in place of 505-101 and 505-102 to ensure they have the computer skills to articulate with advanced elective subjects in this stream.</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>POPH90142 Epidemiology &amp; Analytic Methods 1</td> <td>March</td> <td>12.50</td> </tr> <tr> <td>POPH90143 Epidemiology &amp; Analytic Methods 2</td> <td>April</td> <td>12.50</td> </tr> </tbody> </table> <p><b>Other Consortium Subjects</b>          A minimum of 2 of the following Consortium subjects</p> <table border="1"> <thead> <tr> <th>Subject</th> <th>Study Period Commencement:</th> <th>Credit Points:</th> </tr> </thead> <tbody> <tr> <td>POPH90021 Principles &amp; Practice of Public Health</td> <td>March</td> <td>12.50</td> </tr> <tr> <td>POPH90023 Public Health Policy</td> <td>March</td> <td>12.50</td> </tr> <tr> <td>POPH90022 Environmental Influences on Health</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>POPH90012 Health Economics &amp; Program Evaluation</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>POPH90020 Health Promotion</td> <td>Semester 2</td> <td>12.50</td> </tr> <tr> <td>POPH90019 Social &amp; Cultural Perspec in Public Hlth</td> <td>Semester 2</td> <td>12.50</td> </tr> </tbody> </table>		Subject	Study Period Commencement:	Credit Points:	POPH90142 Epidemiology & Analytic Methods 1	March	12.50	POPH90143 Epidemiology & Analytic Methods 2	April	12.50	Subject	Study Period Commencement:	Credit Points:	POPH90021 Principles & Practice of Public Health	March	12.50	POPH90023 Public Health Policy	March	12.50	POPH90022 Environmental Influences on Health	Semester 2	12.50	POPH90012 Health Economics & Program Evaluation	Semester 2	12.50	POPH90020 Health Promotion	Semester 2	12.50	POPH90019 Social & Cultural Perspec in Public Hlth	Semester 2	12.50
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**Strongly Recommended**

Subject	Study Period Commencement:	Credit Points:
POPH90146 Study Design in Epidemiology	May	12.50

**Recommended Electives**

A minimum of three subjects from the following list:

Subject	Study Period Commencement:	Credit Points:
POPH90112 Infectious Disease Epidemiology	Semester 1	12.50
POPH90147 Epidemiology in Practice	August	12.50
POPH90111 Genetic Epidemiology	Semester 2	12.50
POPH90144 Linear & Logistic Regression	July	12.50
POPH90145 Survival Analysis & Regression for Rates	September	12.50

**Research Report**

The research project is compulsory and allows students to consolidate their MPH studies in a particular discipline(s). Some research projects have pre-requisites and/or recommended subjects to help guide course planning. The Research Project is offered in two consecutive semesters i.e. Semester 1 and 2 or 2 and 1. All students should consult with the MPH coordinator early in their enrolment to identify possible research project topics and supervisors.

Subject	Study Period Commencement:	Credit Points:
POPH90110 Research Project in Epidemiology/Biostat	Semester 1, Semester 2	12.50

**Related Course(s):**

Master of Public Health