

## 136-333 Science, Reason and Reality (Science 3)

<b>Credit Points:</b>	12.50
<b>Level:</b>	3 (Undergraduate)
<b>Dates &amp; Locations:</b>	2009, This subject commences in the following study period/s: Semester 1, - Taught on campus.
<b>Time Commitment:</b>	Contact Hours: Between 10-12 weekly tutorials and between 20-24 lectures, normally two per week Total Time Commitment: 2.5 contact hours/week, 6.5 additional hours/week. Total of 9 hours per week.
<b>Prerequisites:</b>	Two second-year HPS subjects.
<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;         &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>
<b>Coordinator:</b>	Assoc Prof Howard Sankey
<b>Contact:</b>	Assoc Prof Howard Sankey - chs@unimelb.edu.au
<b>Subject Overview:</b>	This subject addresses some of the central issues in the philosophy of science. It will raise questions. What is the difference between science and non-science? Is there a universal scientific method or do the methods employed by scientists vary historically? Is scientific theory change a rational process? Is science objective? Do scientific theories inform us of the truth about the world? Students who take this class will have knowledge of the major themes of recent and contemporary philosophical thinking about science. They will also have experience of the methods of critical analysis and argument employed in the philosophy of science and a background on which to base further study in the area.
<b>Objectives:</b>	<ul style="list-style-type: none"> <li># have knowledge of the major ideas and theories of recent and contemporary philosophy of science;</li> <li># have background in the philosophy of science on which to base further research and study in the area;</li> <li># have experience with methods of critical analysis and argument employed in the philosophy of science, leading to improved general reasoning and analytical skills.</li> </ul>
<b>Assessment:</b>	Written work totalling 6000 words comprising an essay of 1500 words 25% (due mid-semester), an essay of 2000 words 35% (due at the end of semester) and an essay of 2500 words 40% (due at the end of the examination period).
<b>Prescribed Texts:</b>	What is this thing called science? (A Chalmers) Philosophy of science: the central issues (M Curd & J A Cover) Representing and intervening (I Hacking)
<b>Breadth Options:</b>	<p>This subject potentially can be taken as a breadth subject component for the following courses:</p> <ul style="list-style-type: none"> <li># <b>Bachelor of Biomedicine</b> (<a href="https://handbook.unimelb.edu.au/view/2009/J07">https://handbook.unimelb.edu.au/view/2009/J07</a>)</li> <li># <b>Bachelor of Commerce</b> (<a href="https://handbook.unimelb.edu.au/view/2009/F04">https://handbook.unimelb.edu.au/view/2009/F04</a>)</li> </ul>

	<p># <b>Bachelor of Environments</b> (<a href="https://handbook.unimelb.edu.au/view/2009/A04">https://handbook.unimelb.edu.au/view/2009/A04</a>)</p> <p># <b>Bachelor of Music</b> (<a href="https://handbook.unimelb.edu.au/view/2009/M05">https://handbook.unimelb.edu.au/view/2009/M05</a>)</p> <p># <b>Bachelor of Science</b> (<a href="https://handbook.unimelb.edu.au/view/2009/R01">https://handbook.unimelb.edu.au/view/2009/R01</a>)</p> <p># <b>Bachelor of Engineering</b> (<a href="https://handbook.unimelb.edu.au/view/2009/355-AA">https://handbook.unimelb.edu.au/view/2009/355-AA</a>)</p> <p>You should visit <b>learn more about breadth subjects</b> (<a href="http://breadth.unimelb.edu.au/breadth/info/index.html">http://breadth.unimelb.edu.au/breadth/info/index.html</a>) and read the breadth requirements for your degree, and should discuss your choice with your student adviser, before deciding on your subjects.</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>	<ul style="list-style-type: none"> <li># have experience of thinking systematically about difficult intellectual problems of an abstract nature;</li> <li># have practice conducting research, speaking articulately, writing clearly and reading with attention to detail.</li> </ul>
<b>Notes:</b>	<p>Formerly taught as 136-202/302/317. Students who have completed 136-202/302/317 are not eligible to enrol in this subject. Students cannot gain credit for both this subject and 136-033. Only available at science third year; for other levels see PHIL20001 (Science, Reason and Reality). This subject is based on 136-033 but involves additional work.</p> <p>This subject is available for science credit for students enrolled in the BSc (pre-2008 degree only), or a combined BSc course (except for the BA/BSc).</p>
<b>Related Majors/Minors/Specialisations:</b>	History and Philosophy of Science