

136-105 Science, Philosophy and History

Credit Points:	12.50
Level:	1 (Undergraduate)
Dates & Locations:	2009, This subject commences in the following study period/s: Semester 2, - Taught on campus. *
Time Commitment:	Contact Hours: Two 1-hour lectures and a 1-hour tutorial per week Total Time Commitment: *
Prerequisites:	*
Corequisites:	*
Recommended Background Knowledge:	*
Non Allowed Subjects:	*
Core Participation Requirements:	*
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Subject Overview:	Many philosophical issues and problems arose in the course of twentieth century science. Ranging across the physical, biological, and social sciences we consider the work of a variety of twentieth century scientists and study some of the controversies that surrounded their work. Students completing this subject should better understand that science is a remarkably complex and often beautiful result of an intricate set of forces: conceptual and experimental but also economic, social and individual.
Objectives:	Students who successfully complete this subject should: <ul style="list-style-type: none"> # have a better understanding of and an increased ability to systematically think about Science as a result of a complex set of forces: philosophical, experimental as well as economic, social and individual; # have a deeper understanding of and an increased ability to systematically think about the nature of science, the concepts of evidence and of scientific progress; # have a deeper understanding of and an increased ability to systematically think about the on-going debates about the nature of science and about particular scientific theories; # have a deeper understanding of and an increased ability to systematically think about the different views of reason; # have experience of thinking systematically about difficult intellectual problems of an abstract nature; # have practice conducting research, speaking and writing clearly and reading carefully; # have experience with methods of critical analysis and argument employed in the history and philosophy of science, leading to improved general reasoning and analytical skills.
Assessment:	Written work totalling 4000 words comprising weekly tutorial assignments of 2000 words 50% (due throughout the semester). A minimum of six tutorial papers are required to be submitted; and a 2000-word final paper 50% (due during the exam period).
Prescribed Texts:	Prescribed Texts: A readings On-Line collection will be available What is This Thing Called Science? (Chalmers), (3rd ed)
Breadth Options:	This subject potentially can be taken as a breadth subject component for the following courses: <ul style="list-style-type: none"> # Bachelor of Biomedicine (https://handbook.unimelb.edu.au/view/2009/J07)

	<p># Bachelor of Commerce (https://handbook.unimelb.edu.au/view/2009/F04)</p> <p># Bachelor of Environments (https://handbook.unimelb.edu.au/view/2009/A04)</p> <p># Bachelor of Music (https://handbook.unimelb.edu.au/view/2009/M05)</p> <p># Bachelor of Science (https://handbook.unimelb.edu.au/view/2009/R01)</p> <p># Bachelor of Engineering (https://handbook.unimelb.edu.au/view/2009/355-AA)</p> <p>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.</p>
Fees Information:	Subject EFTSL, Level, Discipline & Census Date, http://enrolment.unimelb.edu.au/fees
Generic Skills:	<p># develop skills in written and oral communication;</p> <p># conduct independent research;</p> <p># make appropriate use of primary and secondary sources in mounting an argument;</p>
Notes:	<p>Formerly available as 136-031. Students who have completed 136-031 are not eligible to enrol in this subject.</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>
Related Majors/Minors/Specialisations:	<p>History & Philosophy of Science</p> <p>History & Philosophy of Science Major</p> <p>History and Philosophy of Science</p> <p>History and Philosophy of Science</p> <p>Logic and Philosophy of Science</p> <p>Philosophy</p> <p>Philosophy Major</p>