

# History and Philosophy of Science

<b>Year and Campus:</b>	2012
<b>Coordinator:</b>	James Bradley Email: <a href="mailto:jbradley@unimelb.edu.au">jbradley@unimelb.edu.au</a>
<b>Contact:</b>	<b>Arts Student Centre (<a href="http://arts.unimelb.edu.au/amsc/contact.html">http://arts.unimelb.edu.au/amsc/contact.html</a>)</b>
<b>Overview:</b>	The aim of History and Philosophy of Science is to understand science: how it works, its historical development and its function in modern society. History and Philosophy of Science thus integrates philosophical, historical and sociological approaches to the study of science. It thus provides students with an insight into scientific methods and objectives without actually having to do science. Students will gain analytical skills in evaluating scientific (and non-scientific) knowledge as well as a broad understanding of the historical development of science in its interactions with philosophy, religion and society.
<b>Objectives:</b>	see course objectives
<b>Structure &amp; Available Subjects:</b>	<p>History and Philosophy of Science is available as a 100 point major and a 75 point minor in the BA, comprising two level one subjects, one sequence of level 2 and 3 subjects and one or two subjects from the list of elective subjects.</p> <p>Major</p> <p><b>Level 1</b> 25 points comprising of the following:</p> <ul style="list-style-type: none"> <li># One <b>Arts Foundation Subject</b> (<a href="http://arts.unimelb.edu.au/view/current/%21B-ARTS-SPC%2B1001">../view/current/%21B-ARTS-SPC%2B1001</a>) : MULT10016 Reason is recommended but not required and one of the following:</li> <li># HPSC10002 Science and Pseudoscience or HPSC10001 From Plato to Einstein</li> </ul> <p><b>Level 2</b> # 37.5 points of level two HPS subjects</p> <p><b>Level 3</b> # 37.5 points of level three HPS subjects including the capstone subject: 161-301 Knowledge in the Making</p> <p>Total 100 points</p> <p>Minor</p> <p>Level 1 25 points comprising of the following:</p> <ul style="list-style-type: none"> <li># # One <b>Arts Foundation Subject</b> (<a href="http://arts.unimelb.edu.au/view/current/%21B-ARTS-SPC%2B1001">../view/current/%21B-ARTS-SPC%2B1001</a>) : MULT10016 Reason is recommended but not required and one of the following:</li> <li># HPSC10002 Science and Pseudoscience or HPSC10001 From Plato to Einstein</li> </ul> <p><b>Level 2</b> # 25 points of level two HPS subjects</p> <p><b>Level 3</b> # 25 points of level three HPS subjects</p> <p>The Capstone subject is not available in the minor or as breadth studies.</p> <p>Total 75 points</p> <p><b>Students are recommended to take one of the following subject sequences within their major or minor:</b></p> <ul style="list-style-type: none"> <li># <b>Methodological Approaches to History and Philosophy of Science</b> Science Reason and Reality (level 2) Science and Society (Level 3) Science Revolutions and Evolutions (Level 3)</li> <li># <b>History of Science</b></li> </ul>

- Astronomy in World History (Level 2)
- Darwinism (Level 2)
- The Rise of Modern Science (Level 3)
- # **Science, Technology and Society**
- Cybersociety (Level 2)
- Intimacy and Technology (Level 2)
- Science and Society (Level 3)
- # **Life Sciences**
- A History of Nature (Level 2)
- Darwinism (Level 2)
- Philosophy of Biology (Level 3)
- # **Minds, Belief and History**
- Astronomy in World History (Level2)
- God and the Natural Sciences (level 2)
- Minds and Madness (Level 3)
- # **Philosophy of Science**
- Science, Reason and Reality (Level 2)
- God and the Natural Sciences (Level 2)
- Philosophy of Biology (Level 3)

In addition to a sequence students completing a major must also complete two electives and students completing a minor one elective from the list below.

**Subject Options:**

**Level 1**

Subject	Study Period Commencement:	Credit Points:
HPSC10001 From Plato to Einstein	Semester 2	12.50
HPSC10002 Science and Pseudoscience	Semester 1	12.50

**Level 2**

See recommended sequences above.

Subject	Study Period Commencement:	Credit Points:
HPSC20001 Darwinism: history of a very big idea	Semester 1	12.50
PHIL20001 Science, Reason and Reality	Semester 1	12.50
HPSC20002 A History of Nature	January	12.50
HPSC20009 Cybersociety	Semester 2	12.50
HPSC20010 Intimacy and Technology	Not offered 2012	12.50
HPSC20020 God and the Natural Sciences	Semester 2	12.50
HPSC20015 Astronomy in World History	January	12.50

**Level 3**

See recommended sequences above.

Subject	Study Period Commencement:	Credit Points:
HPSC30023 Science and Society	Semester 1	12.50
HPSC30034 The Rise of Modern Science, 1500-1750	Semester 1	12.50
HPSC30028 Philosophy of Biology	July	12.50
HPSC30019 Minds and Madness	Semester 2	12.50

**Level 3 Capstone**

The capstone subject is compulsory for student completing a major. The capstone is not available for students completing a minor or as breadth.

Subject	Study Period Commencement:	Credit Points:
HPSC30035 Knowledge in the Making	Semester 2	12.50

### Level 2 Elective Subjects

Students completing a major are required to complete two electives at either level two or level three. Students completing a minor must complete one elective, at either level two or level three.

Subject	Study Period Commencement:	Credit Points:
HPSC20001 Darwinism: history of a very big idea	Semester 1	12.50
PHIL20001 Science, Reason and Reality	Semester 1	12.50
HPSC20002 A History of Nature	January	12.50
HPSC20009 Cybersociety	Semester 2	12.50
HPSC20010 Intimacy and Technology	Not offered 2012	12.50
HPSC20020 God and the Natural Sciences	Semester 2	12.50
HPSC20015 Astronomy in World History	January	12.50
GEOG20001 Society and Environments	Semester 1	12.50
GEOG20003 Environmental Politics and Management	Semester 2	12.50
PHIL20033 The Philosophy of Mind	Semester 1	12.50
PHIL20018 Ethical Dilemmas in Life and Society	Semester 2	12.50

### Level 3 Elective Subjects

Students completing a major are required to complete two electives at either level two or level three. Students completing a minor must complete one elective, at either level two or level three.

Subject	Study Period Commencement:	Credit Points:
HPSC30023 Science and Society	Semester 1	12.50
HPSC30034 The Rise of Modern Science, 1500-1750	Semester 1	12.50
HPSC30028 Philosophy of Biology	July	12.50
HPSC30019 Minds and Madness	Semester 2	12.50
PHIL30016 Knowledge and the Nature of Reality	Semester 2	12.50
PHIL30043 The Power and Limits of Logic	Semester 2	12.50
GEOG30003 Geographical Thought	Semester 1	12.50
GEOG30019 Sustainable Development	Semester 1	12.50

Links to further information:

<http://hps.unimelb.edu.au/>

Related Course(s):

Bachelor of Arts