



# 2011-12 HPSC Module Catalogue. v4

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## Overview

This catalogue gives a brief description of Science and Technology Studies (STS) modules for students selecting their modules for the 2011/12 session. Detailed information, including sample syllabi, can be found on the departmental website at: [www.ucl.ac.uk/sts/study](http://www.ucl.ac.uk/sts/study). The information in this catalogue is correct at the date of publication (above) and may be subject to alteration. Please check the latest edition of the module catalogue and the on-line timetable prior to formally registering on modules.

All the department's module codes begin HPSC which is followed by a 4 character letter/ number combination:

- HPSC1000-level are introductory
- HPSC2000-level are intermediate
- HPSC3000-level are advanced
- HPSCM000-level are reserved for 4<sup>th</sup> year MSci students

## Timetable information

Check the online timetable, [www.ucl.ac.uk/timetable](http://www.ucl.ac.uk/timetable), for information about class times and locations. A provisional timetable will be available online shortly. This catalogue indicates the term in which a module is taught and also the duration and type of teaching sessions.

Before formally registering on any modules in Portico please use the timetable building tools to check for module clashes. Clashes are not an acceptable excuse for missing classes and it is the student's responsibility to check carefully that they can attend all sessions. Students should continue to check class locations regularly using the online timetable as rooms are subject to change without prior notice to departments or tutors. The online timetable shows live information from the UCL timetabling database and students should consult this in preference to information provided in syllabi or elsewhere which may rapidly become out of date.

## Registering on modules

Students from outside the STS department are welcome to register on most STS modules. This catalogue indicates where modules are not open to all UCL students. In some cases pre-requisites apply and queries regarding these should be directed to the module tutor. Otherwise, registration for students from other departments is on a first come, first served basis by date selected in Portico.

STS students will be issued with instructions for selecting modules in the summer term. You are strongly encouraged to discuss your selections with your personal tutor. Module selections must be approved by personal tutors before they will be confirmed in Portico. It is the student's responsibility to ensure that they meet the requirements for their degree. These can be found at [www.ucl.ac.uk/sts/study](http://www.ucl.ac.uk/sts/study)

Module tutors may be contacted directly: see [www.ucl.ac.uk/sts/directory](http://www.ucl.ac.uk/sts/directory)

## STS Modules at a glance

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module information and syllabi: [www.ucl.ac.uk/sts/study](http://www.ucl.ac.uk/sts/study)

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Term 1 (Autumn/Fall)

Term 2 (Spring)

Term 1 and 2

## Level 1 Modules

### HPSC1001 History of Science

Surveys the origins and development of science from the ancient Greeks to 1800. Main themes are the origins of science in the ancient world, the nature of the scientific revolution and the spread of science during the Enlightenment. Attend all lectures plus one tutorial per week.

**Tutor:** Dr Andrew Gregory

**Teaching sessions:** Term 1. Students attend one two-hour lecture and one one-hour tutorial per week.

**Assessment:** two essays (25% each); one exam (50%); to be 'complete', students must submit both essays and sit the exam.

### HPSC1003 Philosophy of Science

An introductory module in the philosophy of science. The focus is on several central problems regarding the nature of scientific knowledge: the demarcation between science and non-science, progress in science, and the empirical testing of theories. These issues are studied through the writings of twentieth-century philosophers such as Popper, Kuhn, Lakatos, Feyerabend, and Hempel.

**Tutor:** Dr Chiara Ambrosio

**Teaching sessions:** Term 2. Students attend 2 x 1-hour lectures and 1 x 1-hour tutorial per week.

**Assessment:** two essays (25% each); one exam (50%); to be 'complete', students must submit both essays and sit the exam.

### HPSC1004 Introduction to Science Policy Studies

Introduction to social and political thinking about the role of science and technology in society and the relationship between science and the state. Also, a historical overview of science policy. Topics normally include: the intellectual foundations of science policy, the role of the state in the promotion, regulation, and shaping of science and technology, the idea of scientific autonomy, the relationship between science and the military, the moral responsibility of the scientist, the commercialization of science, feminism and science, and the challenge of environmentalism for science policy. Attend all lectures plus one tutorial per week.

**Tutor:** Dr Inga Kroener.

**Teaching sessions:** Term 2. Students attend 2 x 1 hour lectures and 1 x 1 hour tutorial fortnightly.

**Assessment:** two essays (25% each); one exam (50%); to be 'complete', students must submit both essays and sit the exam.

### HPSC1007 Research Methods in Science and Technology Studies

Our team-taught introductory module for all first-year students, designed to ensure everyone has the requisite research, writing and discursive skills to make a success of the programme. Open only to students in STS degree programmes.

**Module co-ordinator:** Prof Steve Miller (Term 1), Dr Andrew Gregory (Term 2) **Teaching team:** Prof Steve Miller, Dr Simon Lock, Dr Andrew Gregory, Dr Karen Bultitude.

**Teaching sessions:** Term 1 and Term 2. 1 2 hour lecture/ class per week.

**Assessment:** 4 pieces coursework (25% each); to be 'complete', students must submit all coursework.

### **HPSC1008 Introduction to Science Communication**

Introduces the public dimension of science and technology. It explores the relationship between the professional world of science and the social, cultural and personal spaces in which science contributes to the shaping of society, including the news media, science fiction, activism, advertising and museums.

**Tutor:** Dr Simon Lock

**Teaching Sessions:** Term 1. Attend lectures plus one tutorial per week

**Assessment:** 2 pieces coursework (25% each); one exam (50%); to be 'complete', students must submit all coursework and sit the exam.

### **HPSC1010 Science in the Spotlight**

An introduction to history, philosophy, and social studies of science, including key concepts in science and technology studies, public engagement with science, and science policy. The focus will be on classic and contemporary case studies in these disciplines. This course is intended as a foundation and sampler for later courses in science and technology studies.

**Tutor:** Dr Joe Cain

**Teaching sessions:** Term 1. Students attend one three hour lecture per week.

**Assessment:** two 2,000 word essays (40% each), one 1,000 word essay (20%). No exam.

### **HPSC1011 History of Modern Science**

This module provides an overview of the development of the sciences from 1850 to the present, with particular emphasis on the twentieth century. The development of science will be considered in its social, political and cultural contexts. Topics include science in different national contexts, science and war, the development of key new disciplines (such as quantum physics, relativity, genetics, particle physics) as well as the development of older ones. Emphasis will be on the physical and life sciences, with some comparative consideration of the social sciences.

**Tutor:** Dr Jon Agar

**Teaching sessions:** Term 2. Students attend 1 x 2 hour lecture and 1 x 1 hour tutorial per week.

**Assessment:** One essay (50%), one exam (50%)

## **Level 2 Modules**

### **HPSC2001 Policy Issues in the Life Sciences**

Provides a critical overview of policy issues arising from developments in the biological sciences. The module covers a variety of issues, including: medical research policy, biotechnology and public policy, debates about the social acceptability of recombinant DNA research, biology and its publics, controlling biological weapons research and animal experimentation. Attend all lectures and one seminar per week.

**Tutor:** Dr Inga Kroener

**Teaching sessions:** Term 1: Students attend 1 x 1 hour lecture and 1 x 1 hour seminar per week.

**Assessment:** three essays (33.333..% each); no exam; to be 'complete', students must submit all essays and have satisfactory attendance at compulsory seminars.

### **HPSC2002 Science in the Mass Media**

An introduction to media studies for those interested in relations between science and the media. What science gets covered in print and on TV? How and why is that material selected? How can we investigate the effects of media coverage on public knowledge of or attitudes towards science? The module gives a short survey of relevant empirical and theoretical work in media studies, and public understanding of science.

**Tutor:** Dr Jane Gregory

**Teaching sessions:** Term 2 1 x 2 hour lecture per week

**Assessment:** two essays (30% each); one exam (40%); to be 'complete', students must submit both essays and sit the exam.

### **HPSC2003 Topics in Philosophy of Science**

Intensive exploration of some central, on-going debates in philosophy of science such as scientific realism and antirealism; the nature of scientific explanation; and the status of laws of nature. No pre-requisite philosophy of science knowledge required. However, if students have not completed HPSC1003 previously, they must secure tutor's permission.

**Tutor:** Dr Michela Massimi

**Teaching sessions:** Term 2. 1 x 2 hour lecture per week.

**Assessment:** one essay (40%); one exam (60%); to be 'complete', students must submit the essay and sit the exam

### **HPSC2005 Philosophy of Biology**

This course aims to give an introduction to the fundamental philosophical issues of post-Darwinian life sciences. The first half of the course deals with the broad conceptual themes of twentieth century biology. This begins by outlining the theoretical developments that led to the Modern Synthesis, before introducing a number of challenges to this viewpoint. These include the development of molecular biology, the rise of gene selectionism, and the more recent turn towards evolution and development (evo-devo) and epigenetics.

The second half of the course then deals with some special topics arising from these broad themes. These include theoretical discussions of the bauplan, questions about reductionism, issues related to classification, and to discussions about biodiversity.

This course is intended to be complimentary to [HPSC3027: Evolution in Science and Culture](#), which will take a more historical look at evolution.

**Tutor:** Dr Brendan Clarke

**Teaching Sessions:** Term 2. 1 x 2 hour lecture per week.

**Assessment:** One essay (40%), exam (60%)

### **HPSC2008 Human Sciences in Society**

This module is open only to students in Life Sciences degree programmes.

**Tutor:** Dr Simon Lock

**Teaching Sessions:** Terms 1 and 2. 1 x 1 hour seminar per week.

**Assessment:** course work (100%); no exam; to be 'complete', students must submit all coursework and attend at least 70% of sessions, including the compulsory sessions.

### **HPSC2012 Science, Religion and Revolution**

Examines the relations between science, religion and progress. Topics will include the relation between science and religion in the ancient world, in Islam and in China, the role of Christianity in the scientific revolution of the seventeenth century and some issues in the relation of religion and science today.

**Tutor:** Dr Andrew Gregory

**Teaching Sessions:** Term 2. 1 x 2 hour lecture per week.

**Assessment:** one essay (50%); one exam (50%); to be 'complete', students must submit the essay and sit the exam.

### **HPSC2014 Science and Global Citizenship**

Global climate change is the defining issue of our age. The internet and online social networking tools are challenging our ideas of privacy, communication, and democratic involvement. Scientific knowledge and technological systems both shape and are shaped by global aspirations, knowledges, capabilities, organizations and markets. Yet their political effects and achievements can also be resolutely local. Policies that affect all communities in the world are made, and challenged, on the basis of scientific and technical knowledge. If we are all members of a global community then who should have a strong voice in decisions that affect that community, and how should these and other voices be heard? Does the internet create a global and more democratic society or are we all under increasing surveillance. What are our rights and obligations as global citizens? Scientists can speak authoritatively on important global phenomena, but how should and how does scientific advice on global issues relate to broader political processes? This module explores such questions, with special reference to global climate change and the internet.

**Tutor:** Dr Simon Lock

**Teaching Sessions:** Term 2. 1 x 2 hour sessions per week.

**Assessment:** 1 x 2000 word essay (30%), 1 x 3,000 word essay (40%), Advocacy project (30%); no exam; to be 'complete', students must submit all essays and attend lectures and seminars.

### **HPSC2016 Science, Communication and the Global Community**

The universalism claimed for science has long provided a rationale for international and intercultural communication and cooperation. Many of the products of science have enabled and framed an international community of scientists, as well as more extended and inclusive networks. Science occupies a significant proportion of mass media space. This module explores the scientific community and the public sphere on a global scale. It will look at the origins of 'community' in science; the relationship between science and capitalism; internationalism in science; the development of professional and public science communication; and the role of scientists as public intellectuals. It will explore two contemporary case studies of science communication on a global scale: the development of a risk discourse around nuclear power; and local and international public health responses to AIDS.

**Tutor:** Dr Jane Gregory

**Teaching sessions:** Term 1. Students attend 1 x 2 hour lecture per week.

**Assessment:** 1 x 2000 word essay (30%), 1 x 3,000 word essay (40%), Advocacy project (30%); no exam; to be 'complete', students must submit all essays and attend lectures and seminars

### **HPSC2017A and HPSC2017B Action for Global Citizenship**

This is an action-based group-work module in which students develop and implement a project via which they, and a wider community, enhance citizenship and leave a legacy of new understanding, better practice or improved social relations. The student groups choose a contemporary issue of global significance (such as fair trade, climate change, public health, participatory democracy) and undertake a programme of learning and activity which enrolls a wider community in a way that enhances both their own citizenship and UCL's citizenship in its wider community. For example, the students might: develop and implement a project to enrol UCL's members in reducing UCL's carbon footprint; or run a 'town meeting' on universities and citizenship involving UCL, politicians and our neighbours in Camden. Students may take the module in either **term 1 (HPSC2017A)** or **term 2 (HPSC2017B)** and should take care they register in Portico for the correct term.

**Tutors:** **Term 1: Dr Simon Lock** **Term 2: Dr Jane Gregory**

**Teaching sessions:** 1 x 2 hour session per week + student directed group work

**Assessment:** Group project and reports (80%), 2 pieces individual coursework (20%); to be 'complete' students must submit all project work

### **HPSC2018 History of Life Sciences**

A historical survey of the biological sciences from the Enlightenment to the present. What are the major themes? Why do ideas and methods change so dramatically? This survey includes scientific theories, methods, and people. It also ties activities in biology to context. How does science relate to events elsewhere in society?

**Tutor:** Dr Joe Cain

**Teaching sessions:** Term 1. Students attend 2 x 1 hour lectures per week.

**Assessment:** 1 essay (3,000 words) (40%), 1 exam (3 hours) (60%)

### **HPSC2020 Revolutions in Medicine**

A number of developments in the history of medicine have been described as revolutionary. These include the development of the germ theory of disease, the introduction of anaesthetic drugs, the widespread deployment of vaccines, the development of public health strategies, and the recent move towards evidence-based medicine in clinical practice. This course explores such changes in the theoretical and practice groundwork of medicine. It is structured along six conceptual strands drawn from recent philosophy of science. In brief, these deal with discovery (of diseases and treatments), with causation, with modelling, with the communication of medical knowledge, with the ways in which medical theories are tested, and the ways in which treatments are evaluated. These topics will be illustrated with historical examples.

**Tutor:** Dr Brendan Clarke

**Teaching sessions:** Term 1. Students attend one two-hour class per week.

**Assessment:** One essay (3,500 words)(40%), exam (60%). To be complete students must submit the essay and sit the exam.

## Level 3

### HPSC3003 Communication of Scientific Ideas

A practical course in communicating science based around three key tasks: (1) writing science news and feature articles suitable for New Scientist or the science pages of the 'quality' press; (2) carrying out a radio interview, such as might be broadcast on Radio 4's Science Now; (3) reporting on a piece of novel science to a committee of MPs who need to be aware both of the science content of the work and potential policy issues. Issues in the public understanding of science are discussed from this practical standpoint of communication. This module is time intensive and requires substantial group work.

**Tutor:** Professor Steve Miller

**Teaching Sessions:** Term 1. 1 x 4 hour session per week

**Assessment:** feature article (40%), report (30%), radio show (20%), news article (10%); to be 'complete', students must submit at least two of the four items of coursework

### HPSC3004 Dissertation

This is a full-year, one course unit research module for third-year students. Students undertake a research project of their own design in the field of science and technology studies. An appropriate supervisor is assigned by the module tutor, and discussion of research progress is undertaken during regular tutorials. Students submit a 11,000 word dissertation summarising their findings and deliver an oral presentation on their work. For students pursuing STS degrees. Others by permission of module co-ordinator.

**Module Co-ordinator:** Dr Joe Cain (Term 1), Dr Michela Massimi (Term 2)

**Teaching Sessions:** Terms 1 and 2. Fortnightly tutorials with supervisor.

**Assessment:** dissertation (85%); presentation (15%); to be 'complete', students must submit the dissertation and give the presentation.

### HPSC3007 Topics in the History of the Physical Sciences

In this course students explore various topics in depth through independent research. Students take on a coordinated set of research topics, on which they do original work under close guidance by the tutor. The overall theme is "Electricity: Innovation and Discovery", which will encompass not only topics in physics and chemistry, but physiology, technology, and many other fields. Although the main focus of the course is on history, philosophical and sociological approaches are very welcome. Second-year students are invited to consider extending their course project into their third-year dissertation. Except in those cases, whenever plausible, the outcome of research will be passed on to students taking this course next year for further development. Enrolment is by tutor's permission

**Tutor:** Dr Chiara Ambrosio.

**Teaching Sessions:** Term 1. 1 x 1 hour lecture and 1 x 1 hour seminar per week.

**Assessment:** two essays (one 50%, one 25%); one exam (25%)

### **HPS3014 Magic to Science**

Explores the changing relationship between astrology, alchemy, magic and science from the ancient Greeks to the present day. Topics include: magic and science in the ancient world, Christian attitudes to magic and witchcraft, the origins and development of astrology and alchemy, the anthropology of magic, magical world views.

**Tutor:** Dr Andrew Gregory

**Teaching Sessions:** Term 2. 1 x 2 hour lecture per week.

**Assessment:** one essay (40%); one exam (60%)

### **HPSC3020 Philosophy of Physics**

This course explores the relationships between philosophy and physics by focusing on some of the more significant episodes in the history of modern physics: the Newton-Leibniz controversy on the nature of space and time and Mach's criticism of Newton; thermodynamics and the problem of the direction of time; the Copenhagen interpretation of quantum mechanics and the Bohr-Einstein debate on the completeness of quantum mechanics.

**Tutor:** Dr Michela Massimi.

**Teaching Sessions:** Term 2. 1 x 1 hour lecture and 1 x 1 hour seminar per week.

**Assessment:** essay (30%), précis (20%); exam (50%)

### **HPSC3022 Special Topics in STS. Science, Art and Philosophy**

Detailed investigation of episodes, themes or problems in the history and philosophy of science, or science and technology studies. Topics vary. This year the module explores the interactions between science and art from the mid-nineteenth century to the present. Its philosophical focus is the notion of "representation", conceived as a crucial common link between scientific and artistic visual practices. Integrating the history and philosophy of scientific and artistic representations, the course will address a broad range of issues. These will include questions on the nature and role of visual representations in scientific and artistic practice, what counts as "objective" and "accurate" representation, when and how images count as "evidence", and whether the relations between science and modernism contribute to overturn the common sense view that "art invents, science discovers".

**Tutor:** Dr Chiara Ambrosio

**Teaching Sessions:** Term 2. 1 x 2 hour lecture and 1 x 1 hour seminar per week.

**Assessment:** two essays (40% each); presentation (20%); to be 'complete', students must submit both essays and give the presentation.

### **HPSC3026 Research Project**

Students undertake an independent research project of their own design in the field of science and technology studies. An appropriate supervisor is selected in consultation with the module tutor. Discussion of research is undertaken during regular tutorials. Permission required. Normally, this module is open only to students enrolled in intercalated BSc programmes.

**Co-ordinator:** Dr Joe Cain (Term 1), Dr Michela Massimi (Term 2)

**Assessment:** dissertation (85%); presentation (15%); to be 'complete', students must submit the dissertation and give the presentation.

**Timetable:** Terms 1 and 2 fortnightly tutorials with supervisor.

### **HPSC3027 Evolution in Science and Culture**

A historical survey of evolutionary thinking from the Enlightenment to the present. Content includes the history of scientific ideas and the context for those ideas. It also considers the influence of evolutionary ideas, especially Darwinism, on society and visa versa.

**Tutor:** Dr Brendan Clarke.

**Teaching Sessions:** Term 2. 2 x 1 hour lectures per week

**Assessment:** one essay (40%); one exam (60%); to be 'complete', students must submit the essay and sit the exam.

### **HPSC3028 Observation and Discovery in Medicine**

This course investigates how discoveries are made in medicine. As an example, recent research has suggested that infection with xenotropic murine leukemia virus-related virus (XMRV) might be associated with a range of diseases, including chronic fatigue syndrome and several different cancers. However, these claims remain hotly disputed for a number of reasons. This module will consider the philosophical issues at stake. Class time will be predominantly spent conducting original, collaborative research on this theme. This collaborative work hopefully will form the basis for a publication at the end of the course. As the precise direction of research will be student-led, it is not possible to give a precise description of philosophical topics that will be covered during the module. However, it seems likely that several core philosophical issues – discovery, causation, explanation, evidence and realism - are likely to be encountered. Focused, informal, teaching sessions during class time will be given in support of these issues.

**Tutor:** Dr Brendan Clarke

**Teaching Sessions:** Term 2. 1 x 2 hour sessions per week.

**Assessment:** Two pieces coursework (4000 words) (50% each). To be complete students must submit both essays.

### **HPSC3029 Medicine, Disease and History**

This course addresses the changes and developments in Western medicine from the Ancient Greek world to 1700. The course will discuss the varieties of theory and practice of medicine, the understandings of the body and illness, and the historical contexts in which medicine can be understood in the pre-modern world, including classical Greek and Roman society, medieval Islamic and Western cultures, and Renaissance and early modern periods.

**Tutor:** Dr William MacLehose

**Teaching Sessions:** Term 1. 2 x 1 hour sessions per week.

**Assessment:** One essay (3,000 words) (40%), one exam (3 hours) (60%)

### **HPSC3030 Science and Global History**

This course studies the history of medieval Islamic and western Christian science from a comparative perspective and focuses on the transfer of knowledge from the ancient Greek world to the Arabic and then to the Latin West from the ninth to the fifteenth centuries. Approaching the subject thematically, we will consider the following fields of scientific knowledge: geography, cosmology, astrology, technology, medicine and their connections with religion, broadly construed. In the process, we will examine the underlying political, social, cultural, institutional and intellectual structures of these societies as well as the intercultural interactions.

**Tutor:** Dr William MacLehose

**Teaching Sessions:** Term 2. 1 x 2 hour lecture per week.

**Assessment:** One essay (3,000 words) (40%), one exam (3 hours) (60%)

### **HPSC3032 Investigating Contemporary Science**

STS aims to provide students with the intellectual and other skills to analyse trends in science and technology. This course asks students to use – and develop further - these skills to investigate deeply, assess and present their findings on a chosen issue in the contemporary politics of science. As a third year module, this course has been designed to make most use of acquired skills and knowledge in a way that moves students towards the world of work. In particular, the kinds of capacities demonstrable in a successful completion course are similar to those needed by an investigative reporter or a researcher for a think tank.

**Tutor:** Dr Jon Agar

**Teaching Sessions:** Term 1. 1 x 2 hour lecture/ seminar per week.

**Assessment:** short essay (2,000 words) (35%), long essay (4,000 words) (50%), Presentation (20 minutes) (15%).

### **HPSC3033 Science Communication in Digital Environments**

This module focuses on creative and exciting contemporary approaches to science communication via digital means. Teaching focuses on new media and online communication mechanisms, for example podcasting, blogging, social media and/or Citizen Science approaches. Existing global patterns of Internet use will be explored, including both demographic and device-oriented trends (such as the rise of mobile Apps). Students will critique contemporary examples of projects that utilise digital environments, as well as develop their own ideas. Across the module practical opportunities to explore the various techniques will be balanced with conceptual models of effective communication.

**Tutor:** Dr Karen Bultitude

**Teaching Sessions:** Term 2. 4 hours per week.

**Assessment:** Case Study Analysis (30%), Digital Communication Strategy (30%), New Media Project (40%)

## **M – Level Courses (for Natural Sciences Msci 4<sup>th</sup> Year)**

### **HPSCM001 Research Project in Science and Technology Studies**

This is an independent research project module open only to 4th year students undertaking the MSci degree in Natural Sciences, with History Philosophy and Social Studies of Science as their major stream. Students will work on a topic of their own choice, building on a background they have acquired in both of their Natural Sciences streams. The main focus of their research should be on an historical, philosophical or social analysis of science, and the work should be informed by a technically competent knowledge of the relevant areas of science, preferably related to the student's minor-stream subject.

**Tutor:** Dr Simon Lock (Term 1), Dr Michela Massimi (Term 2)

**Teaching Sessions:** Term 1 and 2 Contact module tutor for specific timetable assignment.

**Assessment:** Thesis (12-15,000 words) (85%); Presentation (15%); to be 'complete', students must submit the dissertation and give the presentation.

### **HPSCM002 Frontiers in Science and Technology Studies**

This course is only open to 4th-year students undertaking the MSci degree in Natural Sciences with History, Philosophy and Social Studies of Science as their major stream. This course will introduce advanced students to the practice of research in science and technology studies. Students will be asked to join fully in the ongoing research activity of the department by regularly attending a suitable reading/research seminar series. They will select a particular strand of research to develop, in consultation with a member of teaching staff and other relevant people involved in the research.

**Tutor:** Dr Simon Lock (Term 1), Dr Michela Massimi (Term 2)

**Teaching Sessions:** Term 1 and 2

**Assessment:** 1 x 5000 word essay (100%).

### **HPSCM007 Advanced Topics in History of Science**

This module examines topics in the history of science in depth, with special emphasis on evaluation of primary documents and larger interpretative contexts. Attention also is given to methodological issues and current trends in the field.

**Tutor:** Dr Andrew Gregory

**Teaching Sessions:** Term 2. 1 x 2 hour lecture and 1 x 1 hour tutorial per week.

**Assessment:** one essay (50%); one exam (50%); to be 'complete', students must submit the essay and sit the exam.

### **HPSCM006 Advanced Topics in Science Policy**

A Masters level understanding of the knowledge and practice of science policy. Decision-making processes in the sciences are examined. Historical and contemporary policy making are studied. The lectures cover science and governance. Masters students are provided with the skills and guidance necessary to interrogate archival material as well as documents relating to contemporary decision-making processes in the sciences.

**Tutor:** Dr Jonathan Agar

**Teaching Sessions.** Term 1. 1 x 2 hour sessions per week.

**Assessment:** 100% coursework. Two essays (3,000 words).

### **HPSCM008 Advanced Philosophy of Science**

This module will explore in some depth a selection of topics from contemporary philosophy of science. In 2011-12, this module will be integrated with HPSC3022 Science, Art and Philosophy, with additional assessment required. Prerequisites: HPSC1003 and HPSC2003 or equivalent. This module is intended primarily for 4th year MSci Natural Sciences. Permission of module tutor required for other students.

**Tutor:** Dr Chiara Ambrosio

**Teaching sessions:** Term 2, 1 x 2 hour lecture and 1 tutorial.

**Assessment:** Course work (100%); no exam; to be 'complete', students must submit both pieces of course work.