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## **Chapter 1. An Overview of Graduate Study in the History of Science at the University of Wisconsin–Madison**

The Department of the History of Science at the University of Wisconsin-Madison is the oldest department of its kind in North America and continues as a leader in graduate education. Its coverage includes the history of science, medicine, and technology, with attention both to developments internal to these disciplines and to their broader social and intellectual contexts. While concentrating on Western Europe and America, our coverage extends to other areas of the world that experienced significant encounters with Western science and medicine (such as the medieval Islamic world, China during the seventeenth century, and North Africa since the late nineteenth century). Our graduate faculty includes historians with primary appointments in the Department of the History of Science and the Department of Medical History and Bioethics; many of these faculty members also have affiliations with other departments and programs. The Department of the History of Science also cooperates closely with the Department of History and with the Science and Technology Studies Program.

The Memorial Library of the University of Wisconsin-Madison is an exceptionally fine general research library and is particularly strong in the history of science. Because of the early interest in the history of science at Wisconsin, Memorial Library has been actively collecting periodicals, reference works, historical monographs, and research materials for many years. Especially noteworthy are the holdings of early scientific journals and the special collections of early works relating to the history of chemistry, medicine, and pharmacy. Memorial Library is also very strong in the history of physics and mathematics, in works relating to science in England during the sixteenth and seventeenth centuries, and in nineteenth-century German scientific journals. The history of medicine collection, housed in the Ebling Library, provides outstanding opportunities for research in the history of European and American medicine from the seventeenth through the twentieth centuries. Of particular interest to historians of American science, technology, and medicine is the library of the State Historical Society of Wisconsin, which is one of America's great research libraries in its own right. The State Historical Society newspaper holdings are second only to those of the Library of Congress.

Graduate students come to the Department of the History of Science from a variety of backgrounds in the sciences and humanities and with diverse professional goals. The department maintains a policy of maximum flexibility and, insofar as possible, tailors the program to fit the individual. Students are encouraged to undertake work in related departments such as history, philosophy, Science and Technology Studies, and the various sciences. Joint degrees in the History of Science and another field are possible. In past years such Ph.D. programs have been successfully completed with the departments of Philosophy, Classics, Psychology, History, Chemistry, Mathematics, and Physics. The department has formally organized joint Ph.D. programs with the departments of History and Philosophy and is an active contributor to the Ph.D. minor in Science and Technology Studies. A description of the first two joint programs appears in chapters 9 and 10 below. Although most students who enter the graduate program anticipate completing a Ph.D. in History of Science, the department welcomes applications from students whose career goals will be furthered by the M.A. degree.

The Department of the History of Science has financial aid for graduate students in a variety of forms, including research and teaching assistantships, the John Neu Distinguished Graduate Fellowship, the David and Greta Lindberg Distinguished Graduate Fellowship, the Theodore and Genevieve Herfurth Research Assistantship, and the William Coleman Dissertation Fellowship. Applicants may also compete for University Fellowships and for a variety of national fellowships offered by the National Science Foundation and other agencies. In addition, the Department of Medical History and Bioethics is able to provide financial support for some students concentrating in the history of the biomedical sciences. For more information, see chapter 7 below.

## Chapter 2. Faculty

**Warwick H. Anderson**, Robert Turell Professor, B.Med.Sc.(Physiology) University of Melbourne, M.B.B.S. (MD equivalent) University of Melbourne; M.A. (history of sociology and science) University of Pennsylvania; Ph.D. (history of medicine) University of Pennsylvania. *History of tropical medicine and international health; public health and globalization; disease ecology; twentieth-century biomedical science and racial thought.*

**Thomas H. Broman**, Associate Professor, B.A. (biology & chemistry) Ripon College; M.S. (agronomy) University of Illinois; Ph.D. (history) Princeton University. *Science and the Enlightenment, early modern medicine.*

**Judith A. Houck**, Assistant Professor, B.A. (liberal studies) St. John's College, Santa Fe; M.A., Ph.D. (history of science) University of Wisconsin. *History of women's health, American medicine, medicine and sexuality, race and medicine, science and gender.*

**Florence Hsia**, Assistant Professor, A.B. (East Asian studies) Princeton University; M.A., Ph.D. (history) University of Chicago. *Early modern European science; Jesuit science; science and European expansion (esp. into East Asia).*

**Richard Keller**, Assistant Professor, B.A. (history) University of Colorado at Boulder; M.A., (European history), University of Colorado at Boulder; Ph.D. (European history), Rutgers University. *History of European and colonial medicine and public health; history of psychiatry and psychoanalysis; history of the human sciences; science and race.*

**Judith W. Leavitt**, Ruth Bleier Professor, B.A. (social sciences) Antioch College; M.A.T. (education) University of Chicago; M.A., Ph.D. (history) University of Chicago. *History of public health in America; History of women's health in America; 19<sup>th</sup> and 20<sup>th</sup> centuries.*

**Gregg Mitman**, William Coleman Professor of the History of Science, B.Sc. (biology) Dalhousie University; M.A., Ph.D. (history of science) University of Wisconsin. *History of ecology; environment and health; 20<sup>th</sup> century life sciences; science in America; science and film.*

**Ronald L. Numbers**, Hildale and William Coleman Professor, B.A. (mathematics and physics) Southern Adventist University; M.A. (history) Florida State University; Ph.D. (history) University of California, Berkeley. *History of science and medicine in America; the historical interactions of science, medicine, and religion.*

**Lynn K. Nyhart**, Associate Professor, B.A. (history/history & philosophy of science) Princeton University; Ph.D. (history and sociology of science), University of Pennsylvania. *History of biology, especially natural history, genetics, evolution, and marine biology; biology and society; feminist approaches to science, technology, and gender.*

**Robin E. Rider**, Senior Lecturer, B.S. (mathematics) Stanford University; M.A. (mathematics), Ph.D. (history), University of California, Berkeley. *Early modern science; printing and publishing of science; history of mathematics.*

**Eric Schatzberg**, Associate Professor, B.S. (engineering) Swarthmore; Ph.D. (history and sociology of science), University of Pennsylvania. *History of technology; 19<sup>th</sup> and 20<sup>th</sup> centuries; technology and culture; critiques of technology.*

**Michael H. Shank**, Professor, B.A. (physics) Goshen College; M.A. (history and philosophy of science) University of Notre Dame; A.M., Ph.D. (history of science) Harvard University. *Physical Sciences to the 17th Century, especially in late middle ages; science and the university.*

**Richard Staley**, Assistant Professor, B.A. (history and philosophy of science) University of Melbourne; Ph.D. (history of science), University of Cambridge. *History of the physical sciences since Newton; relativity and quantum theory; instruments, experiment, and theory; science in the 20th century ; science and war.*

### Emeritus Faculty

**Victor L. Hiltz**, Professor, A.B. (history and science) Harvard University; Ph.D. (history of science) Harvard University. *History of the social and behavioral sciences*.

**David C. Lindberg**, Hilldale Professor, B.S. (physics) Wheaton College; M.S. (physics) Northwestern University; Ph.D. (history and philosophy of science) Indiana University. *Science and natural philosophy before 1700; science and religion*.

**John Neu**, B.S. (English) University of Wisconsin; M.L.S. (library science) University of Wisconsin. *Bibliography of the History of Science*.

**Daniel M. Siegel**, B.S., M.S. (physics) University of Chicago; Ph.D. (physics) University of California, Berkeley; M. Phil. (history of science) Yale University. *Physics and related disciplines in the 19th and 20th centuries*.

**Robert Siegfried**, B.A. (chemistry) Marietta College; Ph.D. (chemistry and history of science) University of Wisconsin. *History of chemistry*.

**Glenn A. Sonnedecker**, B.S., (pharmacy), Sc.D. Ohio State University; M.S., Ph.D. (history of pharmacy and science) University of Wisconsin. *Pharmacy and materia medica*.

In addition to these faculty members with appointments in the Department of the History of Science, faculty from other departments (History, Philosophy, English, Sociology, Rural Sociology, La Follette, and various natural sciences) cooperate in the History of Science Program.

## Chapter 3. The M.A. Degree in History Of Science

### Requirements for the M.A. Degree in History of Science.

1. A total of 30 credits, of which at least 21 must be in the History of Science graduate program. A grade of B or better must be received in all courses used to satisfy this requirement. Courses in History of Science with numbers 300 or above carry graduate credit and may count toward the MA degree (except HistSci 403 & 404, which may be applied toward the MA degree only with departmental permission).
2. Four of the following five distribution areas must be represented by at least one course of 3 or 4 credits in the History of Science program. *No course may be counted for more than one distribution area.* (See the end of this chapter for a list of courses in each area.)

#### Distribution Areas

- 1) Science: Ancient through the Enlightenment
- 2) Modern Science and Technology
- 3) Medicine and Public Health
- 4) Transnational Science and Medicine
- 5) Race, Gender, Class, and Religion in Science and Medicine

Special topics or irregularly offered courses may also count towards the distributions areas, but only with approval of the Director of Graduate Studies (DGS). The student must submit a copy of the course syllabus and a brief letter explaining why this course is appropriate for the category; approval is not automatic.

3. At least three seminars, including two seminars in History of Science and/or History of Medicine. (There are no consistent definitions for seminars across departments. For History of Science, seminars carry three or more credits and are numbered 900 or above, excluding 950, 990 and 999. In general, the department accepts as a seminar any course that: 1) is open only to graduate students; 2) has a small class size, generally less than 20 students; 3) requires extensive readings or in-depth research projects; 4) has on class meeting each week organized mainly around discussion, not lecture. If you are uncertain about whether a course counts as a seminar, please ask the DGS to approve the course.)
4. History of Science 720 (Pro-Seminar: Historiography and Methods). Ordinarily this course must be taken during the first year of graduate work.
5. Additional courses up to the required total of 30 credits from within or outside the Department, to yield a balanced program fitted to the background and interests of the student.
6. Completion of at least one research paper based on primary sources during their first year in the graduate program. To fulfill this requirement, students may need to request, from one of their professors, the opportunity to write a research paper (as opposed to, say, a historiographic or literature paper).

7. Completion of an M.A. paper (a research paper), which in form, content, and length is to approximate an article that might be submitted for publication in a history of science journal. Typically this will be based on a previously prepared term or seminar paper (such as the paper described in item 6, above), appropriately extended and revised.

**M. A. Advising.** The Director of Graduate Studies will ordinarily serve as advisor for first-year students. Student are expected to choose an M.A. advisor no later than registration week of their third semester in the department (completion of form A is required). The M.A. advisor will assist students in planning their academic program and preparing an M.A. paper. Students should inform their M.A. advisor if they expect to apply for admission to the Ph.D. program upon completion of the M.A. degree. Students may change advisors at any time. To initiate such a change, the student should fill out the appropriate form and file it with the DGS.

**Concurrent Courses.** Some department courses require concurrent registration in another course open only to graduate students (e.g., the courses numbered 323 and 623). Such courses count as a single course in meeting graduate degree requirements.

**History of Science 925 for Fourth Semester.** Students who intend to enroll for research credit while writing a Master's paper should enroll in HistSci 925 when offered, rather than HistSci 990 or 999.

**History of Science 950, Colloquium.** All students are expected to attend departmental colloquia on a regular basis. During their first two semesters, students must enroll in HistSci 950 ("History of Science Colloquium") for either 0 or 1 credit unless exemption is granted by the Director of Graduate Studies.

**Foreign Language Requirements.** There is no foreign language requirement for the M.A. degree. However, graduate students must demonstrate proficiency in either French or German (or an approved alternative) in order to be admitted to the Ph.D. program. The Ph.D. in History of Science requires proficiency in two foreign languages. Those students intending to pursue a Ph.D. degree should anticipate these requirements. (See Ph.D. language requirements below for methods by which proficiency may be demonstrated.)

**M. A. Paper.** Students will submit an M.A. paper during the spring term of the student's second year in the department. These papers are due on the first Monday in April. One hardcopy should be submitted to the department office, and an electronic copy (preferably PDF) should be emailed to mail@histsci.wisc.edu. Although no formal limits have been established for the length of the M.A. paper, something in the neighborhood of 30-45 typewritten pages is recommended. Style should follow KateTurabian, A Manual for Writers of Term Papers, Theses, and Dissertations (University of Chicago Press). A separate bibliography is not to be included; bibliographical information should be communicated in the footnotes. Quotations in the body of the paper should be translated into English. *The paper is to be a research paper.* Typically it will be the outgrowth of a course or seminar paper, subsequently revised through independent study or the HistSci 925, Seminar: Research and Thesis--thus representing 3-6



credits of effort. The student should work closely with a member of the departmental faculty in its preparation.

The paper will be evaluated by the usual criteria for a historical research paper: clarity, insight, significance, quality and quantity of research, appropriate and relevant use of primary and secondary literature, successful defense of the paper's central thesis, and stylistic merit. In the case of students applying for admission to the Ph.D. program, particular attention will be paid to the potential for Ph.D. work revealed by the paper. Admission to the Ph.D. program is based on an evaluation of the student's overall departmental record; the M.A. paper is but one (and not necessarily the decisive) element.

Any student wishing to submit an M.A. paper later than the fourth semester must request an extension of time. The request for such an extension must be received at least two weeks prior to the date when the paper would ordinarily have been submitted. Except for students proceeding on a part-time basis, extension will be granted only in the most extenuating circumstances. Failure to submit a paper during the fourth semester or to request an extension of time will be grounds for departmental review of a student's record and possible termination of a student from the graduate program.

**M.A. Checklist.** Students wishing to be awarded the M.A. degree will submit an M.A. Checklist (form B) along with the M.A. paper.

#### **Courses by Distribution Area**

Note: each course appears in only one area.

#### **Distribution Area 1: Science: Ancient through the Enlightenment**

- 322/622 Ancient and Medieval Science (Shank)
- 323/623 The Scientific Revolution (Hsia/Shank)
- 324 Science in the Enlightenment (Broman)
- 507 Health Disease and Healing I (Broman)
- 512 Galileo
- 903 Seminar: Medieval, Renaissance and 17th Century Science
- 911 Seminar: Eighteenth Century Science (Broman)

#### **Distribution Area 2: Modern Science and Technology**

- 325 History of Physics, Classical Period (Staley)
- 326 History of Modern Physics (Staley)
- 333 History of Modern Biology (Nyhart)
- 337/637 History of Technology (Schatzberg)
- 339/639 Technology and its Critics since WWII (Schatzberg)
- 353 History of Ecology (Mitman)
- 394 Science in America (Numbers)
- 536 History of the Social Sciences
- 538 Science in the 20th Century: Historical Themes and Issues
- 905 Seminar: Modern Physical Science (Staley)
- 907 Seminar: History of Technology (Schatzberg)
- 909 Seminar: History of Biology and Medicine (Nyhart/Broman/Mitman)
- 915 Seminar: Science and Medicine in America

**Distribution Area 3: Medicine and Public Health**

- 504 Society and Health Care in American History (Numbers)
- 508 Health, Disease and Healing II (Keller)
- 509 The Development of Public Health in America (Leavitt)
- 543 Doctors and Delusions: Madness and Medicine in the Modern Era (Keller)
- 575 Clinical Medicine Since 1750
- 901 Graduate Studies in Medical History
- 902 Research Seminar in Medical History
- 919 Seminar in Medical History

**Distribution Area 4: Transnational Science and Medicine**

- 513/713 Environment and Health in Global Perspective (Mitman)
- 553 International Health and Global Society (Keller/Anderson)
- New Science and Exploration (Hsia)
- New History of Germs (Anderson)
- New Seminar: Science, Medicine, and Colonialism (Anderson/Keller)

**Distribution Area 5: Race, Gender, Class, and Religion in Science and Medicine**

- 331 Science, Medicine and Religion (Numbers/Hsia)
- 343 Darwinian Revolution (Nyhart)
- 431 Childbirth in the United States (Leavitt)
- 523 Race and American Medicine and Public Health (Houck)
- 524 Medical History of Sex and Sexuality (Houck)
- 531 Women and Health in American History (Leavitt/Houck)
- 532 History of the Body (Houck)
- New Seminar: Race, Gender, Class and Religion in Science and Religion
- 913 Seminar: Social Aspects in the Development of Science

## **Chapter 4. M.A. Degree for Students Entering With an Advanced Health Professional Degree**

An M.A. degree in the History of Medicine is awarded through the History of Science Department at the University of Wisconsin, Madison. This program is designed for students with doctoral training in one of the health professions who wish to pursue a Master's degree in the history of medicine.

**Requirements:** A minimum of 30 course credits are required for the M.A. degree. The distribution should be along the following lines:

### **Required Courses:**

504 Society and Health Care in American History  
507 or 508 Health, Disease, and Healing I and II (4-credit option, if available)  
720 Proseminar: Historiography and Methods  
901 Graduate Seminar in the History of Medicine

### **Additional Requirements:**

One additional history of medicine course at or above the 300 level  
One additional history of science course at or above the 300 level  
One additional seminar in the history of medicine, history of science, or history  
One approved elective to complete the 30 credits.

### **Transfer credits**

Students can apply up to 6 credits from their previous professional degree work toward the M.A. degree. If only 3 credits are transferred, these will count as 1 course towards the M.A. requirements. The Graduate School stipulates that only courses taken within the previous ten years may be used for transfer credits.

### **History of Science Department Requirements**

There is no foreign language requirement for the M.A. degree for students entering with an advanced health professional degree. However, graduate students must demonstrate proficiency in either French or German (or an approved alternative) in order to be admitted to the Ph.D. program. The Ph.D. in History of Science requires proficiency in two foreign languages. Those students intending to pursue a Ph.D. degree should anticipate these requirements (See Ph.D. language requirements below for methods by which proficiency may be demonstrated.)

**M. A. Paper.** Same as for M.A. degree in History of Science.

**M.A. Checklist.** Students wishing to be awarded the M.A. degree will submit an M.A. Checklist along with the M.A. paper. The checklist appears in Form B below.

## Chapter 5. The Ph.D. Degree in History of Science

### Admission to the Ph.D. Program

Students entering the Department of the History of Science are ordinarily admitted to the master's degree program only. The department expects applicants to the Ph.D. program to consult with department faculty about suitable areas for their dissertation research; applicants are required to indicate their probable area of doctoral research on the application form. In order to be admitted to the Ph.D. program, students must have demonstrated proficiency in either French or German or an approved alternative. (See Ph.D. language requirements below.)

Students who already have an M.A. degree in history of science from another institution are occasionally admitted directly to the Ph.D. program when applying for admission to the department; the applicant would make this request to the admissions committee at the time of application to the graduate program.

#### *Applying for Admission*

1) Applications to the Ph.D. program in the History of Science are due on the first Monday in April along with the MA paper. (The MA paper will be considered as an important piece of the PhD program admission application.) Applicants must complete form C in this handbook.

2) Applications with 3 or more incompletes will not be considered. (Incompletes from the first year must be resolved by July 1 of the first year). A transcript that contains two unresolved incompletes may adversely affect the admission decision, depending on the specific reasons for the incompletes.

#### *Outcomes of the Application Process*

Applications are considered at a meeting of the faculty in April. There are five possible outcomes from this meeting: 1) admission to Ph.D. program granted; 2) admission granted contingent upon elimination of incompletes by mid-August of the calendar year; 3) decision postponed until after a rewrite of the MA paper; 4) decision postponed until incompletes are resolved and work from semester 4 completed; 5) admission to the PhD program denied.

In the case of decisions 3 and 4, the faculty will form a committee to review the student's work. Final decisions of this committee will be made by mid-August.

Students not admitted to the PhD program in April who hope to be admitted in August will receive lower priority for funding.

The admission process is not complete until the student has secured the signature of a History of Science faculty member to serve as major professor (use form A). This form must be submitted before the start of the semester following application to the Ph.D. program.

## **Requirements for the Ph.D. Degree in History of Science**

1. Acceptance for Ph.D. work by a major professor who will direct the student's work.
2. Achievement of a reading proficiency in two foreign languages
3. An appropriate number of seminars (see below).
4. A minor in another department (see below).
5. Departmental approval of overall Ph.D. program.
6. Passage of the preliminary examination.
7. Completion of a satisfactory dissertation based on original research, written under the direction of the student's major professor and subject to the approval of the dissertation committee.
9. Passage of a final oral examination on the dissertation conducted by the dissertation defense committee.
10. Graduate School residency requirements for the Ph.D. degree as stated in the Graduate School Bulletin.

**Ph. D. Advising.** In order to complete the process of admission to the Ph.D. program, a student chooses a major professor. A student may change major professors after admission to the Ph.D. program. When changing or choosing a major professor, a student must obtain the written consent of the new major professor. A form for this purpose, which must be endorsed by the Department Chair or the Director of Graduate Studies, is provided in this handbook (form A).

**Ph.D. Checklist.** These checklists will be maintained in the Departmental Office; a student may inspect his or her checklist at any time.

**Approval of Overall Ph.D. Program and Prelim Fields.** No more than one semester after admission to the Ph.D. program, a student must obtain departmental approval of the overall Ph.D. program. To obtain this approval the student must submit form D, "Approval of Overall Ph.D. Program." This form indicates the titles of the four fields, the minor department, seminars taken or contemplated, and the area of dissertation research. The student is required to obtain signatures from each faculty member directing an examined field. Students electing a field not regularly approved for the preliminary examination will include a short statement describing the field and a relevant reading list. The set of fields will not be approved if they overlap excessively or constitute a narrow and specialized program. Prelim fields outside the department are encouraged; however, an outside prelim field may not overlap substantially with the minor field. If both the prelim field and the minor are in the same department, they should be based upon different courses and represent different subject matters. A semester of independent study is a standard option for each of the three "examined" prelim fields.

Requests for approval of the overall Ph.D. program will not be acted on between May 1 and September 1.

**Ph. D. Minor.** The Graduate School offers two alternatives. The **Option A minor**, as defined by the Graduate School, requires a minimum of 10 credits in a single department or area of study. This minor requires the approval of the minor department; contact the intended minor department for specific requirements. Students in the History of Science often choose an Option A minor in the Department of History (which requires 12 credits), although students have arranged Option A minors in many other departments and programs, including Science and Technology Studies. The **Option B minor** requires, according to the official Graduate School wording, "a minimum of 10 credits in one or more departments." This minor requires approval by the History of Science Department. In most cases, the department only permits Option B minors for a minimum of 12 credit of course work distributed across at least two departments. Requests for approval of an Option B minor should be in the form of a letter that describes the proposed courses and their relevance to the overall plan of study. Either type of minor may in some cases be satisfied by prior graduate study. Students should consult with their major professor in advance about their plans for a minor. Students are not required to complete the minor before prelims, but the faculty encourage them to do so.

**Ph.D. Seminar Requirement.** Students who have entered or who intend to enter the Ph.D. program are expected to enroll in seminars. The number of seminars required is determined by the "N-1" rule, where N is the number of semesters of full-time registration at the time of prelims (including the current semester). However, the seminar requirement is capped at 5. Students are, of course, encouraged to take additional seminars. HistSci 720 ("Historiography and Methods") and HistSci 925 ("Research and Thesis") do not count toward this seminar requirement. For a definition of seminar, see chapter 3 under "Requirements for the M.A. Degree," paragraph 3.

**History of Science 990 and 999.** Dissertators should consider enrolling for a seminar, if appropriate, rather than HistSci 990.

**Ph.D. Foreign Language Requirement.** Graduate students must demonstrate proficiency in two foreign languages for the Ph.D. degree. The two languages will normally be French and German; other languages may be substituted when appropriate, by approval of the department. Substitutions require early action on the part of the student. The candidate must have demonstrated proficiency in one language before admission to the Ph.D. program, and in the second preferably before taking the preliminary examination. ABD status, with its attendant reduction in fees, is contingent upon satisfying the two-language requirement.

Proficiency may be demonstrated by means of (1) a language examination administered on the Madison campus by the relevant department or University Extension (consult departments and University Extension regarding availability), (2) the Graduate Student Foreign Language Test or other national foreign language test, or (3) undergraduate language courses (see chart below). Approval of language proficiency by the third means is secured by application to the department through the Director of Graduate Studies. In special cases, the department may choose to certify language proficiency in some alternative manner.

<i>Level and grade of the most advanced foreign language course taken</i>	<i>Years between completion of the most advanced undergraduate language course and matriculation in History of Science graduate program</i>		
	0-3	4	5
4th semester (B or AB)	Yes	No	No
4th semester (A)	Yes	Yes	No
5th semester (B or AB)	Yes	Yes	No
5th semester (A)	Yes	Yes	Yes
6th semester (B or AB)	Yes	Yes	Yes

With the approval of the department and the student's advisor or major professor, a student may choose to substitute quantitative methods for a foreign language. The student will be required to complete a coherent program of no fewer than nine credits, or their equivalent, of coursework in statistics, demography, or other quantitative methodologies relevant to historical research. The GPA in these courses must exceed 3.00, and at least three credits must have been earned in courses beyond the introductory level.

**Prelim Fields.** The Ph. D. preliminary examination will cover four fields, chosen by the student in consultation with his or her major professor. The exact scope of each field will be determined by mutual agreement of student and directing professor, with the overall program subject to departmental approval. The following is a list of fields regularly offered for the preliminary examination in History of Science. This list is not to be construed as a complete list of fields that may be offered, and students are encouraged to take other fields either within or outside the department where appropriate. Approval of fields not regularly offered will require the submission of a reading list, a short statement describing the field, and the approval of a sponsoring faculty member.

1. Ancient Science (Hsia/Shank)
2. Medieval Science (Hsia/Shank)
3. Scientific Revolution (Hsia/Shank)
4. Medicine from Antiquity to 1750 (Broman)
5. Science in the Enlightenment (Broman)
6. History of Biology since 1750 (Nyhart/Mitman)
7. Physics since Newton (Staley)
8. European Medicine since 1750 (Broman/Keller)
9. Science in the Atomic Age (Staley/Mitman)
10. History of Scientific Methodology (Shank)
11. History of the Social Sciences
12. Public Health and Society (Leavitt/Keller/Anderson)
13. History of Public Health in America (Leavitt)
14. History of Health Care in America (Leavitt/Numbers/Houck)
15. Science in America (Numbers/Mitman)
16. Science and Religion (Numbers/Hsia/Shank)
17. Women and Science, Medicine and Technology (Leavitt/Nyhart/Houck)
18. Social Aspects in the Development of Science and Technology (Numbers/Anderson)
19. History of Technology (Schatzberg)
20. Science, Medicine and Globalization (Anderson, Keller)

**The Preliminary Examination.** Ph. D. students will be examined orally and by written examination on three fields and will complete work in the fourth field through satisfactory course work. The preparation of each of the three examined fields will be directed by a faculty member from the Department of History of Science or, if appropriate, from another department of the University. The three examined fields must be directed by three different faculty members. The candidate must notify the department administrator of the date of the oral examination as soon as it has been determined, but not later than three weeks before the meeting.

1) The written examination. The student will prepare a take-home examination in each of the three examined fields; students shall work independently (without any consultation) on these. Examination questions will be given to the student no later than one month before the oral portion of the preliminary examination. The completed take-home examination must be made available to all members of the examining committee no fewer than four days before the oral examination. The maximum allowable length will be eight double-spaced pages (approximately 2000 words) each.

2) The oral examination. The oral examination will last approximately two hours. During the oral examination the candidate may be questioned about the content of the written examinations as well as any other aspects of the fields by any member of the committee.

3) The fourth field. Students will satisfy the requirements for work in a fourth field by completing two courses, including one seminar (or its equivalent in other work) in the area. The average grade in these two courses must be no lower than AB. Work for the fourth field must be completed no later than the end of the semester in which the oral examination occurs.

4) Dissertation proposal in lieu of the fourth field. A student may elect to submit a dissertation proposal instead of presenting coursework for a fourth field. The proposal is to be submitted together with the student's prelim essays. The dissertation committee (which is not always identical to the prelim committee) must meet to discuss the dissertation proposal within three weeks of the prelim orals. Until the dissertation committee approves the proposal, the prelim warrants will not be returned to the Grad School and the student will not be eligible for dissertator status.

5) Evaluation of the preliminary examination. The student's performance on the preliminary examination will receive a grade of fail, pass, or pass with distinction. This grade will become part student's permanent departmental record.. In making this evaluation, the committee will give equal weight to the performance in each of the three examined fields. To complete the preliminary examination successfully, the candidate must, in the opinion of a majority of the committee members, have passed each individual field. No student may take the prelim exam in whole or in part more than twice. A retake (with at least two members of the original committee) may cover an individual field or all fields, at the discretion of the committee.

**Dissertation Committee and Proposal.** The department requires students to set up a dissertation committee as soon as possible but no later than the semester following passage of the preliminary examination, and to meet with this committee during that same semester to discuss the proposed dissertation research. (See the heading "Criteria for Satisfactory Progress as a Graduate Student" in chapter 6 for more details on deadlines.) The dissertation committee will consist of three faculty members, led by the major professor and including at least one other member of the department, chosen by the student and the major professor. This committee approves the dissertation proposal and provides general oversight of the student's dissertation



research. The members of this committee will ordinarily form the core of the dissertation *defense* committee, which decides whether to approve the completed dissertation (see below).

**Progress Report.** Every year after admission to the Ph.D. program, the students must submit a brief progress report, typically one single-spaced page, to his or her advisor and the director of graduate studies. Before the prelim examination, the student should focus on progress towards completing the requirements for prelims (minor, relevant additional course work, preparation for prelims.) After passing prelims, the reports should detail progress toward the dissertation, for example archives visited, materials gathered, databases created, and chapter drafts produced. The student should also include other scholarly work, such as teaching, presenting conference papers, and the like. If funding problems or teaching responsibilities have slowed progress on the dissertation, this may also be addressed in the report. Students should consult with their major professor for specific advice on the content of the report. After the dissertation committee is formed, all committee members should receive a copy. This report is due in March along with the financial aid application form, which is required of all students. This report helps the faculty make funding decisions and gauge satisfactory progress (see chapter 6).

**Ph.D. Dissertation Format.** The remarks made above regarding style of the M.A. paper apply equally to the Ph.D. dissertation. Because of the common tendency to write longer dissertations than the subject requires, the Department encourages conciseness. In most instances, a dissertation of 250-400 pages should be sufficient. In no case will the Department accept a dissertation of more than 500 pages without prior approval. Departmental policy is that footnotes should be placed at the bottom of each page rather than at the end of the dissertation or the end of each chapter. Full-sized copies of the dissertation must be provided for both the departmental library and the major professor. The student should also be aware that the Department and the Graduate School impose additional rules concerning the Ph.D. dissertation and the oral defense; on these rules, see the section of this chapter below, "Submission of Final Dissertation"), and the graduate school web page entitled "The Three D's: Deadlines, Defending, & Depositing Your Ph.D. Dissertation," <http://www.grad.wisc.edu/admin/academicservices/ddd.html>.

**Submission of the Draft Ph.D. Dissertation.** The student must submit a preliminary draft of the Ph.D. dissertation to the dissertation committee, and shall then take the comments of the members of the committee into account in preparing the final draft. If any member of the committee does not give a response to the draft within one month, the student, with the permission of his or her major professor, may proceed without the benefit of that professor's commentary.

**Dissertation Defense Committee.** This committee conducts the oral dissertation defense (see below) and decides whether to approve the dissertation. In general, this committee needs to be established at least two months before the dissertation defense. The committee consists of five members, in most cases the three members of the dissertation committee and two additional members chosen by the student with the approval of the major professor. At least one of the five members must not be a member of the History of Science department.

### **Dissertation Defense (Ph.D. Oral Examination)**

- 1) Candidates for the Ph.D. degree must pass an oral defense of the dissertation before the Ph.D. can be awarded. Candidates need to plan ahead for this oral examination (in consultation with the major professor), in order to make sure that all members of the dissertation defense committee will be available on the proposed date of the examination.
- 2) When a date has been agreed upon, the Ph.D. candidate must schedule the exam with the department administrator, although the candidate is responsible for notifying all participants. No less than three weeks before the examination, the department administrator must file the "Ph.D. Final Oral Committee Approval Form" with the Graduate School. In order to do so, the candidate must provide the administrator with the candidate's name, title of dissertation, date of examination, and names of the members of the defense committee.
- 3) The candidate needs to provide all members of the dissertation defense committee with a copy of the dissertation before the defense. The due date is set in consultation with the major professor and other committee members; in general two weeks before the defense is an absolute minimum.
- 4) The defense typically lasts two hours. During the defense, all five members of the dissertation defense committee are given the opportunity to question the candidate about the dissertation. At the end of the questioning, the candidate leaves the room while the committee deliberates. The committee votes and, if there is a favorable majority, signs the warrant accordingly. Should any member of the committee dissent from a majority decision to pass, the warrant must be immediately forwarded to the Graduate School, where the case will be investigated and adjudicated by Graduate School deans. In case of two dissenting votes, the decision of the deans will almost invariably be negative. The committee may, at its discretion, pass the candidate with conditions.
- 5) The examination is open to observers at the candidate's discretion; the deliberations of the committee are not.

### **Submission of Final Dissertation**

Depositing the dissertation. The Graduate School has stringent rules regarding acceptable dissertation format. The finished dissertation must be presented to the appropriate Graduate School representative (Ph.D. office, 217 Bascom Hall) for approval of its format. Departmental regulations require only that the notes be footnotes rather than endnotes; exceptions may be granted in special cases. Please note that you must obtain the signed readers' page from the department administrator to include with the dissertation when you deposit it.

Publication of the dissertation by microfilm is required; students must cover the cost of microfilming. For additional information, see "The Three D's: Deadlines, Defending, & Depositing Your Ph.D. Dissertation," <http://www.grad.wisc.edu/admin/academicservices/ddd.html>.

Additional copies and binding. Copies are also required for Memorial Library, the Department Library, and the major professor. The candidate should offer copies to all other members of the examining committee.

The department administrator will provide the candidate information on the requirements for the Memorial Library copy.

Bound copies are required for the Department Library and the major professor. Bound copies should be offered to other members of the examining committee.

The candidate is required to pay for binding. The department has arranged for inexpensive binding; please see the department administrator for details.

## Chapter 6. Quality Of Work

**Academic Misconduct.** Both the University of Wisconsin and the History of Science Department expect graduate students to adhere to the highest standards of academic integrity. University guidelines relating to academic misconduct are available from the Graduate School. Plagiarism and other forms of proven academic misconduct are considered by the History of Science Department to be grounds for dismissal from the graduate program. In addition, a graduate student may not submit substantially the same work to fulfill the requirements of more than one course, unless the student has received explicit, written consent from the instructor of each course and the director of graduate studies.

The Graduate School web site provides a detailed discussion of academic misconduct. (See <http://www.wisc.edu/grad/guidelines/gloss.html#misconductacademic>.) That text is reproduced here, and applies to all graduate students in History of Science.

Graduate and professional students should be aware that the university holds graduate/professional students to a high standard of academic integrity and believes that misconduct may warrant university discipline in addition to sanctions imposed by an instructor. Graduate or professional students who have been found by their instructors to commit academic misconduct can expect that the Offices of the Dean of Students will consider whether to impose a further disciplinary sanction of university probation, suspension, or expulsion.

Chapter 14 of the *University of Wisconsin Administrative Code* defines academic misconduct as follows:

*Academic misconduct is an act in which a student:*

- 1) seeks to claim credit for the work or efforts of another without authorization or citation;
- 2) uses unauthorized materials or fabricated data in any academic exercise;
- 3) forges or falsifies academic documents or records;
- 4) intentionally impedes or damages the academic work of others;
- 5) engages in conduct aimed at making false representation of a student's academic performance; or
- 6) assists other students in any of these acts. UWS 14.03(1)

*Examples of academic misconduct include but are not limited to:*

- 1) cutting and pasting text from the Web without quotation marks or proper citation;
- 2) paraphrasing from the Web without crediting the source;
- 3) using notes or a programmable calculator in an exam when such use is not allowed;
- 4) using another person's ideas, words, or research and presenting it as one's own by not properly crediting the originator;
- 5) stealing examinations or course materials;
- 6) changing or creating data in a lab experiment;
- 7) altering a transcript;
- 8) signing another person's name to an attendance sheet;
- 9) hiding a book knowing that another student needs it to prepare for an assignment;

- 10) collaboration that is contrary to the stated rules of the course; or
- 11) tampering with a lab experiment or computer program of another student.

The full text of the state statute governing academic misconduct, UWS 14, *Student Academic Disciplinary Procedures*, as well as the UW-campus procedures for implementing the provisions of UWS 14 and general information about academic misconduct, are available at <http://www.wisc.edu/students/conduct/uws14.htm> or from the Offices of the Dean of Students, 75 Bascom Hall, 263-5700.

**First-Year Review.** All students will have their records reviewed by department faculty at the beginning of the second year of graduate work. The review helps insure that students are making suitable progress after their first year, including removal of incompletes by July 1 as discussed in the section immediately following. To facilitate this review, students are required to submit a portfolio as described below, preferably electronically. This review is designed to insure that students are getting the advice and support they need to complete the M.A. successfully. Students will receive a written summary of the review comments.

By August 25 preceding the fall semester of the 2nd year, MA students need to submit to the department chair a portfolio for review by the faculty that will include:

- 1) A self-assessment (about one page) of the student's progress during the first year, discussing the student's strengths and areas requiring further improvement. There is no fixed format for the self-assessment, but typical topics would include writing, research and historiography.
- 2) Course transcript (unofficial)
- 3) A research paper completed during the 1<sup>st</sup> year of the MA program
- 4) Identification of a possible major advisor and area(s) of interest for the MA paper

**Incompletes.** Students are discouraged from taking incompletes, and they are expected to remove promptly any incompletes received. First-year students must have no incompletes on their record as of July 1 of the summer following the beginning of graduate work. A student also must have removed all incompletes before receiving an M.A. degree. All incompletes must also be removed before a student is allowed to take either the preliminary examination or the final oral examination. Students admitted to the Ph.D. program must remove all incompletes by the end of the August following the date of departmental action on the application for admission. An incomplete carried beyond the one semester after receipt is considered unsatisfactory and will result in review of the student's work.

**Course performance and grades.** The grade "A" in a History of Science course is meant to signify excellent work. "AB" represents satisfactory performance. "B" is given for acceptable work, but suggests cause for concern. "BC" and "C" represent unsatisfactory performance; courses in which these grades have been received confer credit but do not count towards departmental requirements for a graduate degree. A student receiving two "C"s will have his or her record reviewed. For admission to the Ph.D. program, a grade point average substantially higher than "B" must be achieved. Grades are, of course, only a rough measure of success; for a

fuller and more precise evaluation, students are encouraged to take the initiative in discussing with their instructors, at the end of the term, the quality of their work, areas where additional effort might be called for, and potential for further study.

**Leave of Absence Policy.** Graduate students wishing to take a leave of absence of one or more semesters should submit a letter to the Chair or Director of Graduate Studies, explaining the circumstances, indicating the anticipated duration of the leave, and requesting permission for the leave. If permission is granted, the letter of permission will stipulate conditions of reentry. In all cases, removal of all incompletes will be a condition of reentry. Students wishing to reenter will need to contact the Graduate School Admissions Office in order to initiate reentry procedures.

**Probationary Admission.** Graduate students in History of Science who are admitted on probation must complete no fewer than three graduate-level courses during each of their first two semesters of graduate work. Incompletes received while the student is on probationary status must be removed no later than four weeks after the completion of the course in which the incomplete was received. A grade of B or better in all first-year courses is required for the removal of probationary status.

**Full-Time and Part-Time Status.** The Graduate School considers full-time enrollment to be 8-12 graduate-level credits (300 and above; no audits or pass/fail) during the fall and spring semesters. Dissertators are considered full-time with three graduate-level credits (generally research and thesis or required seminars). Non-dissertator teaching and project assistants (TAs, PAs) who hold a semester appointment of at least 33.33% and are enrolled for six graduate credits, or who hold an appointment of at least 50% and are enrolled for four graduate credits, are considered full-time by the registrar for loan deferment and for certification of student immigration status.

We expect graduate students in the program to be enrolled full-time as defined above; however, the department acknowledges the legitimacy and appropriateness of part-time graduate study. A student who wishes to attend part-time (either on a one-time basis or for a more extended period) must secure formal departmental approval. In requesting approval of part-time study, the student should submit a letter to the Director of Graduate Studies explaining the circumstances necessitating a part-time program and proposing a schedule for completing the graduate program.

**Criteria for Satisfactory Progress as a Graduate Student.** Full-time students are expected to meet the schedule of normal progress described below. If a student falls below the normal (or agreed upon) rate of progress, a probationary period of not more than two semesters will usually be set, during which the student must meet conditions specified by the department.

M.A. Degree: students who fail to complete the requirements for the M.A. degree by the beginning of the fifth semester will normally be asked to leave the program, absent extenuating circumstances.

Preliminary Examination: students should pass prelims by the end of the sixth semester, and no later than the fourth week of the seventh semester. Students may only take prelims after this date by submitting a formal request to the department faculty through the DGS. Note that scheduling the exam can often be difficult because of faculty schedules, particularly when

faculty are on leave. The department is willing to make adjustments to the schedule in such cases.

**Ph.D. Degree:** Within one semester of passing the Ph.D. prelim, students must submit a dissertation proposal to a committee of three faculty members, who will meet with the student to evaluate the proposal. (See the section in chapter 5, "Dissertation Committee and Proposal" for more information about the dissertation proposal and the committee composition.) Each year after admission to the Ph.D. program, the student must submit a progress report to the advisor and DGS. These annual reports allow the Department to monitor each dissertator's progress. (See chapter 5 for details of the progress report.)

If a student does not seem to be making progress toward completion of the dissertation, the department may require other evidence of progress, such as a new dissertation proposal or a completed chapter. Failure to meet this schedule and to demonstrate continuing progress toward completing the dissertation will lead to a review of the student's overall academic record, with the possibility that the faculty will decide not to request a waiver of the Graduate School requirement about retaking prelims.\* Ultimately, the faculty may recommend that the student be dropped from the graduate program.

**Right of Appeal.** Appeal of departmental decisions regarding award of M.A. degree, passing of preliminary examination, and admission to the Ph.D. program can be initiated by submitting a letter setting out specific grounds of appeal to the departmental Chair within two weeks of the date on which the student received notification of the departmental action.

\*"A candidate for the Ph.D. degree who fails to take the final oral examination within five years after passing the preliminary examination is required to take another preliminary examination and be admitted to candidacy for a second time."

## Chapter 7. Graduate Student Support (Financial Aid)

**Departmental Support.** Support for incoming students is determined during the admissions process. Support for continuing students is allocated in April, generally at the first faculty meeting after consideration of the M.A. papers.

The financial aid application form is distributed during the spring semester, typically in early March. This form lists all the TA, PA, and RA positions controlled by the department, as well as the department's own fellowships. All continuing students must return this financial aid form to remain in good standing, even if only to indicate that no financial aid is desired.

One exception to this process are University Fellowships for dissertators, which are typically granted to students in their final year of dissertation writing through a university-wide competition. The department requests proposals from dissertators at the end of the fall semester, and submits its nominees to the Graduate School early in the spring semester. If you would like to be considered for this fellowship, please consult with your Ph.D. advisor.

**External Sources of Support.** The department does not control enough resources to fund all of our graduate students through completion of the Ph.D. We therefore strongly encourage our students also to seek sources of funding outside the department. UW-Madison is a billion-dollar enterprise with 16,000 employees, including over 5000 graduate assistants of all types. Most graduate assistantships include tuition remission. Available positions are generally not posted, so talk with other graduate students about available opportunities in other programs.

Graduate students are also eligible for dozens of grants from outside the UW. One of the best is the National Science Foundation Graduate Research Fellowships Program (<https://www.fastlane.nsf.gov/grfp/>), which provides three years of very generous support. The application deadline for this program is typically in early November. Students must apply early in their graduate careers, either in their first or third semesters. The department encourages all eligible graduate students to consult with their advisors or the DGS about applying to the GSRP.

Information on outside funding, compiled by the department's graduate students, is available here: <http://histsci.wisc.edu/grads/funding/index.shtml>. More information from the Graduate School is available here: <http://info.gradsch.wisc.edu/admin/fellowships/>.

**Departmental Criteria for Allocating Graduate Student Support.** The department relies on the following criteria when allocating teaching assistant, project assistant, and fellowship positions. Most of these positions are allocated during the April faculty meeting on financial aid, though sometimes resources only become available after this meeting. In general, students who have completed seven or more years in the graduate program are accorded lower priority in the awarding of financial aid.

Teaching assistantships in the History of Science are awarded on the basis of overall academic record, evidence of teaching ability, and familiarity with the field covered by the course. The departmental faculty as a group discuss every student's performance. Faculty make every effort



to strike a delicate balance between academic performance, actual and potential excellence in teaching, competence in the course material, past support, current needs, and student and faculty preferences. We vote as a group on the TA selections, a process that seeks to maximize the greater good of the graduate program while minimizing arbitrariness and patronage. This process is used for all TA positions that we control, even when is funded by a different department (such as ILS).

Project assistantships are treated somewhat differently. In general, the faculty member responsible for the assistantship plays the major role in the process of selection, while accepting suggestions from faculty colleagues.

Fellowships (and research assistantships, which are functionally equivalent) are awarded using the same process as teaching assistants, except that the overall academic record and scholarly potential are the principal criteria. In general, the few fellowships we control are allocated either to incoming students or to dissertators.

### **Addendum: Obtaining In-State Status for Tuition for Dissertators**

The department *strongly encourages* all students who are eligible to establish residency for in-state tuition to do so. In general, students who come to UW-Madison from outside of Wisconsin primarily to attend the university must pay out-of-state tuition as long as they remain students. But different rules apply to dissertators, who do not need to remain in Wisconsin to continue their studies. In many cases, students can obtain in-state tuition after being dissertators for 12 months. The university has not, however, published any written policies on this issue, so the information here is for advice only. The UW-Madison web page on "Residence for Tuition Purposes" has nothing about dissertator status (<http://registrar.wisc.edu/students/residence/>).

The relevant section of the governing law states:

a student who enters and remains in this state principally to obtain an education is presumed to continue to reside outside this state and such presumption continues in effect until rebutted by clear and convincing evidence of bona fide residence. [Wis. Stat. 6.27(2)(e)]

However, once students become dissertators, they are arguably no longer "in this state principally to obtain an education." If they can demonstrate their intent to remain in Wisconsin indefinitely, they become eligible for in-state tuition after 12 months, as the law explains:

In determining bona fide residence at the time of the beginning of any semester or session and for the preceding 12 months the intent of the person to establish and maintain a permanent home in Wisconsin is determinative. In addition to representations by the student, intent may be demonstrated or disproved by factors including, but not limited to, timely filing of a Wisconsin income tax return of a type that only full-year Wisconsin residents may file, voter registration in Wisconsin, motor vehicle registration in Wisconsin, possession of a Wisconsin operator's license, place of employment, self support, involvement in community activities in Wisconsin, physical presence in

Wisconsin for at least 12 months preceding the beginning of the semester or session for which the student registers, and, if the student is not a U.S. citizen, possession of a visa that permits indefinite residence in the United States. [Wis. Stat. 6.27(2)(e)]

The following information may help dissertators decide if they are eligible for in-state tuition. This information is for guidance only and does not represent official UW policy; it was provided to the department verbally by the "residency counselor" at the Registrar's office in April 2004.

1) If you are a U. S. citizen **and have been a dissertator for 12 months** (as recorded in your computer record by ISIS) and have lived in Wisconsin during that time, and have the other usual evidence of residency (income taxes, in-state driver's license, etc.), the state considers that you are no longer here "primarily for educational purposes," and thus you can qualify as a resident for purposes of tuition.

2) Appeals for establishing in-state residency for tuition purposes are only taken during certain times:

For fall semester: July 1 through the 3rd Friday of classes;

for spring: Dec. 1 through 3rd Friday of classes;

for summer: April 15 through last day students register.

3) the 12 months are counted from the time you are officially a dissertator to the time for which you are registering. That is, if you passed prelims in August, let's say, and so were registered as a dissertator for fall 2003, you may appeal for residency and in-state tuition for fall 2004, even if you are making the appeal in July 2004, less than 12 months after you became a dissertator. However, if you passed prelims in October 2003, you won't be considered a dissertator by ISIS until spring semester 2004 and so have to wait to file for in-state status until after Dec. 1, 2004, for spring semester 2005. AND you need to have lived in Wisconsin for the relevant 12 months preceding the semester for which you are filing the appeal.

4) If you plan on being out of state for research SUBSEQUENT TO applying for residency, this is not an issue as long as you plan to return to Wisconsin. It's the 12 months before you request the appeal that counts.

5) Different rules apply to non-US citizens. In general, if you are here on a student visa, you pay out-of-state tuition unless you have a green card or an H-visa.

## Chapter 8. Policies Regarding Transfer of Graduate Credit

### **Applied to M.A. Degree in History of Science:**

1. Graduate work in fields outside the history of science, either at another institution or at UW-Madison before admission to the History of Science Department: Up to 6 credits (2 courses) may be transferred. These credits must meet the same criteria of relevance to the history of science applied to extra-departmental course work for History of Science graduate students.

2. Graduate work in the history of science at other institutions: The department will give credit for up to 9 credits toward the M.A. degree for such work. Applicability of the transferred courses to the distribution requirements will be judged on a case-by-case basis.

3. Total credits transferred under paragraphs 1 and 2 may not exceed 12. Credit will ordinarily be granted on a one-for-one basis, though adjustments may be necessary in case of doubt about the quality or level of the transferred credits. If the transferred credits have already been counted toward another master's degree at UW-Madison, then, by Graduate School policy, only 7 of them may be applied to the M.A. degree in the History of Science. No credits carrying a grade below B are transferable. The Graduate School stipulates that only courses taken within the previous ten years may be used for transfer credits.

### **Applied to Ph.D. Degree in History of Science:**

4. The department will entertain requests for transfer of additional courses (beyond transfers approved under paragraphs 1 and 2) from other institutions or other departments within the UW-Madison to meet the departmental Ph.D. requirements. However, a decision on such transfer will not be made until after the student has satisfied the departmental M.A. requirements and been admitted to the Ph.D. program. In practice, students will find that progress toward the Ph.D. degree depends principally on one's knowledge and abilities; insofar as graduate work done in other departments and at other institutions contributes in this way, to that extent it will shorten the time required for earning the Ph.D. degree in this department.

5. Use of an M.A. or M.S. degree in the history of science earned at another institution as a prerequisite for Ph.D.-level work. Each case will be judged on its merits at the time of application for admission. Students may also request use of masters' degrees in history and philosophy of science, as well as in history with emphasis on the history of science. (In cases of an affirmative decision, the department will usually withhold a final decision on admission to the Ph.D. program until the student has completed a semester or an academic year of work in the department. During that period, the student will be engaged full-time in preparation for the preliminary examination and the meeting of other departmental Ph.D. requirements. At the close of the specified period, the student's progress and achievements will be evaluated by the same process as that applied to M.A. candidates within the department, and a final decision on admission to the Ph.D. program will be made.)

6. In addition to the transfers outlined above, it is often possible to have previous graduate study in fields outside the history of science count toward the Ph.D. minor. For an Option A minor, this matter must be negotiated with the UW-Madison department representing that discipline.

## **9. Joint Ph.D. in History and History of Science**

After completing a master's degree in History or the History of Science (or an approved alternative), the interested student must be admitted independently to the other department, and at that time indicate interest in the joint Ph.D. program. The student then applies to a standing committee of the two departments for admission to the joint Ph.D. program. Students must declare a home department and will follow the regulations of that home department with regard to seminar requirements, financial aid, and satisfactory progress.

Students admitted to the joint Ph.D. program will be assigned a supervising committee, consisting of three members (two from the home department), who will supervise the student's subsequent work. The preliminary examination will test the student's competence in both History and the History of Science, balancing the material and the fields between the two departments. The number of prelim fields must equal the number required of students majoring exclusively in History or in History of Science, plus one.

Students must fulfill the language requirements of the appropriate field of their home department. The joint Ph.D. program is conceived to meet the minor requirement of the Graduate School, and no formal minor is required. However, students who wish to have a minor field recorded on their transcript may complete a regular Option A or Option B minor or the internal minor of the Department of History.

Preparation of the Ph.D. dissertation will be guided by the student's supervising committee. Satisfactory completion and defense of the dissertation constitute the final requirements for the joint Ph.D. degree.

## 10. Joint Ph.D. in Philosophy and History of Science

### I. Description

#### *A. General*

Each candidate for the Ph.D. degree will be required to pass four prelim fields: two in Philosophy and two in History of Science. The candidate will write a dissertation under the direction of a major professor from either Philosophy or History of Science. A candidate writing the dissertation under a historian of science will be said to have a "history of science emphasis" (HSE), while a candidate writing the dissertation under a philosopher will be said to have a "philosophy emphasis" (PE). All programs must have the approval of the Interdepartmental Committee on Philosophy and history of Science.

#### *B. Languages*

Every candidate will be required to have a reading knowledge of one foreign language related to his or her general area of interest. Most frequently, this language will be French or German. In addition, HSE candidates will be required to have a reading knowledge of a second foreign language.

#### *C. Logic*

All candidates must satisfy the logic requirement. They may do so by (1) passing Philosophy 511 (or a comparable course at another University) with a grade of B or better; or (2) passing a special examination in logic administered by the Logic Committee of the Philosophy Department.

#### *D. Prelims*

Two prelim fields will be in philosophy and two in history of science. One of the philosophy prelims must be in philosophy of science. The second prelim area in philosophy will normally be chosen from among the following: (1) history of philosophy, (2) epistemology and metaphysics, (3) logic.

1. History of Philosophy. A candidate is considered to have passed the prelim in the history of philosophy if he or she takes three of the four graduate history of philosophy courses offered by the Philosophy Department and passes the examinations administered at the end of each course. The three courses chosen should be those most relevant to the candidate's overall program.
2. Philosophy Prelims other than History of Philosophy. The candidate may choose either Option P (the paper option) or Option E (the examination option). (See Department of Philosophy statement of Information for Graduate Students for a complete description of Options P and E.) Before the candidate can take prelims under either option, he or she

will be expected to have taken three graduate seminars in the Philosophy Department. History of philosophy seminars and independent study courses do not count toward the fulfillment of this requirement.

History of Science Prelims: Wide latitude is granted for the selection of prelim fields adapted to the student's interests. A given prelim field is to be negotiated with a professor in the Department of History of Science and approved by the Interdepartmental Committee on Philosophy and History of Science. The following list is intended to suggest the scope of a given field: ancient science, the scientific revolution, 19th century chemistry, 20th-century physics, history of the social sciences, science in America, science and religion (see chapter 5 for a complete list). The examination in each history of science field will have both a written (take-home) and an oral component.

#### *E. Minor*

The student will be required to define a minor program. This may be within the Department of Philosophy or the Department of History of Science but outside the four areas covered in the preliminary examination (a coherent unit consisting of 12 credits is required), or it may be in some other department as a regular Option A or Option B minor. Approval by the Interdepartmental Committee is required.

#### *F. Thesis*

Within six months after passage of the preliminary examination the student is required to submit a dissertation proposal for approval. At that time a dissertation committee of three faculty members will be established, which will guide the preparation of the dissertation. This same committee (with possible changes in membership if faculty go on leave or interests shift or personalities clash) will serve as readers and examiners for the oral defense of thesis. For HSE candidates, two members of the committee (and thus two readers) are to be from the Department of History of Science and one from the Department of Philosophy. For PE candidates, two members are to be from the Department of Philosophy and one from the Department of History of Science. For the oral defense, each department will also supply one nonreader.

#### *G. The M. A. Degree.*

There is no provision for an M.A. degree in philosophy and history of science.

## **II. Administration of the Joint-Degree Program**

### *A. General*

The Ph.D. program here described will fall under the rubric of the Joint Degree Program of the University of Wisconsin Graduate School. The degree earned through this program will be the Ph.D. in Philosophy and History of Science.

*B. Interdepartmental Committee on Philosophy and History of Science*

General oversight of the program will be the responsibility of an interdepartmental committee of four members, two of whom are drawn from the faculty of each of the cooperating departments. Committee members will be appointed annually by the Chairman of their respective departments. The Committee will then elect its own Chairman.

*C. Admissions to the Program*

Each student in the program must have a "home department, normally the one in which his or her emphasis lies. The student must apply to, and be admitted by, the home department, acting on the advice of the Interdepartmental Committee. (It is assumed that each department will make provision for the student to indicate, in his or her application materials, the desire to enter the joint-degree program; such applications will then be funneled through the Interdepartmental Committee.) Students may change home departments in the usual manner. Students already members of the Departments of Philosophy or History of Science may apply for admission to the joint-Ph.D. program by submitting a letter of request to the Interdepartmental Committee.

*D. Approval of Ph.D. Programs*

Each candidate for the Ph.D. in Philosophy and History of Science must submit his or her list of prelim fields for approval to the Interdepartmental Committee.

*E. Evaluation of Student Progress*

The Interdepartmental Committee will meet at the close of each semester to evaluate the progress of all candidates for the joint Ph.D. and recommend remedial action as required.

## 11. Teaching Assistant Training

1. First-time TAs (fall-term only): TAs must have completed, before the beginning of the term in which they first TA, either the L&S TA orientation program or the History of Science Department's "Teaching Forum" (when offered), or an equivalent training program offered by another department. (5 hrs. minimum)
2. First-time TAs (fall or spring term): Additional training in pedagogical technique, directly applicable to the TA's teaching assignment, will take place (1) in regular staff meetings between the TA and the supervising instructor, **and** (2) in a review of TA performance following live or taped observation by the instructor. (5 hrs. minimum)
3. First-time TAs (summer term): No specific requirements, but selection of TAs should take previous training into account as an important criterion.
4. In order to qualify for the "experienced" TA pay level, must complete the Graduate Assistant Equity Workshops offered by the Equity and Diversity Resource Center. **Documentation of attendance is required for department files.** Graduate Students must take form G, located in this handbook to the Workshop and have it signed for proof of attendance. TA's who complete this program become eligible for the "experienced" pay level after also accumulating 1-2/3 semesters of teachings experience as defined in the TAA contract, paragraph X.2.A. Information on the workshops is available here: <http://www.wisc.edu/edrc/workshop.html>.
5. Requirements for TA training are governed by the collective bargaining agreement between the UW and the TAA. The 2005-7 agreement is available here: <http://oser.state.wi.us/docview.asp?docid=5657>.



**Form A. Choice (or Change) of Advisor**

\_\_\_\_ M.A. Advisor

\_\_\_\_ Ph.D. Advisor (Major Professor)

Name of Student \_\_\_\_\_

Name of (New) Advisor \_\_\_\_\_

Signature of (New) Advisor (signifying consent)

\_\_\_\_\_ Date \_\_\_\_\_

Approved \_\_\_\_\_  
(Chair or Director of Graduate Studies) (Date)



**Form B. Checklist for History of Science M.A. Requirements**

TO THE STUDENT: Please fill out items 1-4 as far as possible, as well as the title under 7 and yes or no under 8, and submit with the M.A. paper by the first Monday in April of the second year of graduate study.

Student's Name: \_\_\_\_\_

Course No. & Title	Dist. Area	Credits	Grade	Sem./ Yr.	Instructor	Office Use
<i>1. One course each from four of the five distribution areas</i>						
<i>2. Two History of Science or History of Medicine Seminars</i>						
<i>3. One Additional Seminar</i>						
<i>4. Historiography and Methods</i>						
HS720, Proseminar						
<i>5. Additional courses or seminars in History of Science. to reach a total of 21 credits</i>						
<i>6. Additional courses to reach a total of 30 credits</i>						

**Form B, page 2**

7. *M.A. Paper*

Title \_\_\_\_\_

(Office Use Only)	
Approval for M.A. Degree: ____ Yes ____ No	
Signed _____ (Chair or DGS)	_____ (Date)
Comments _____	

8. Admission to Ph.D. Program:

Admission requested? \_\_\_\_ Yes \_\_\_\_ No

(Office Use Only)	
Departmental action _____	
Signed _____ (Chair or DGS)	_____ (Date)
9. Additional departmental evaluation or action:          	

**Form C. Application for Admission to the Ph.D. Program**  
Department of the History of Science, University of Wisconsin-Madison

Name \_\_\_\_\_ Start date in program \_\_\_\_\_

Title of M.A. Paper \_\_\_\_\_

\_\_\_\_\_

Foreign language (normally French or German) \_\_\_\_\_

How earned (see p. 13)? \_\_\_\_\_

Signature approving language \_\_\_\_\_  
(Chair or DGS) (Date)

Describe in general terms the expected area of your Ph.D. dissertation

\_\_\_\_\_

Possible Ph.D. Advisor \_\_\_\_\_

Signature of Applicant \_\_\_\_\_ Date \_\_\_\_\_

Departmental Action

\_\_\_\_\_

Signature of Ph.D. Advisor \_\_\_\_\_ Date \_\_\_\_\_

Signature of Department Chair \_\_\_\_\_ Date \_\_\_\_\_



**Form D. Approval of Overall Ph.D. Program**  
Department of the History of Science

No less than a semester after admission to the Ph.D. program in History of Science, students must obtain departmental approval of their overall program. Students seeking approval of their overall program should complete this form and submit it to the department through their major professor.

Name \_\_\_\_\_ Date submitted \_\_\_\_\_

Major Professor \_\_\_\_\_

Foreign Languages \_\_\_\_\_

Expected date of preliminary examination \_\_\_\_\_

Semesters of registration to this date \_\_\_\_\_

Examined fields to be offered for the preliminary examination:

Title \_\_\_\_\_

Director's signature \_\_\_\_\_

Title \_\_\_\_\_

Director's signature \_\_\_\_\_

Title \_\_\_\_\_

Director's signature \_\_\_\_\_

Fourth Field, to be offered without examination (must be discussed in advance with major professor or DGS):

Title \_\_\_\_\_

Coursework in fourth field. (Give course number, department, title, semester taken or to be taken, and grade. One course must be a seminar or its equivalent. Any changes must be approved by the Chair or DGS.)

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(continued)

**Form D, page 2**

Minor department \_\_\_\_\_

Date minor completed or expected to be completed \_\_\_\_\_

Seminars and date taken or to be taken:

1. \_\_\_\_\_

2. \_\_\_\_\_

3. \_\_\_\_\_

4. \_\_\_\_\_

5. \_\_\_\_\_

6. \_\_\_\_\_

7. \_\_\_\_\_

8. \_\_\_\_\_

9. \_\_\_\_\_

10. \_\_\_\_\_

Area of dissertation research \_\_\_\_\_

\_\_\_\_\_

Departmental Approval

Signature \_\_\_\_\_  
(Chair or DGS) (Date)



**Form E. Check-List for History of Science Ph.D. Requirements**

Name \_\_\_\_\_ Start date in program \_\_\_\_\_

1. Completion of language requirements

1st language \_\_\_\_\_  
How earned? \_\_\_\_\_

2nd language \_\_\_\_\_  
How earned? \_\_\_\_\_

Signature \_\_\_\_\_  
(Chair or DGS) (Date)

2. Overall Program approved (date) \_\_\_\_\_

3. Minor agreement form received (or minor certified on Prelim Warrant)

\_\_\_\_ Yes \_\_\_\_ No Field or Dept. \_\_\_\_\_

4. Seminars Completed \_\_\_\_\_

5. Preliminary Examination:

Date taken \_\_\_\_\_

Results: \_\_\_\_ Pass \_\_\_\_ Fail \_\_\_\_ Pass with Distinction

Signed \_\_\_\_\_  
(Major Professor)

Fields: \_\_\_\_\_  
(Field Title) (Professor's Signature)

\_\_\_\_\_  
(Field Title) (Professor's Signature)

\_\_\_\_\_  
(Field Title) (Professor's Signature)

Fourth Field (see Handbook page 14):

\_\_\_\_\_  
(Field title) (Signature of Chair or DGS) (Completion date)

**Form E, page 2**

6. Completion of Dissertation:

Title \_\_\_\_\_

\_\_\_\_\_

Date of oral defense \_\_\_\_\_

Results of oral defense (specify any requirements imposed before depositing):

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Signature of Major Professor \_\_\_\_\_

7. Date degree awarded \_\_\_\_\_

**Form F. Application for Research or Travel Grant**

The department has limited funds for support of research and research-related travel (including travel to scholarly meetings for presentation of research papers) for graduate students who have been admitted to the Ph.D. program. Graduate students are eligible to apply for a career maximum currently set at \$800. Awards are subject to the availability of funds and the merits of the application and should not be considered an entitlement. Students are expected to avail themselves of funding from other sources whenever possible. Research funding is also available from the Department of History of Medicine.

Students wishing to apply for departmental travel funds must submit a completed "Research and Travel Request Form" (p. 39) to the departmental chair. This form requires the endorsement of the major professor. Applications should be submitted well in advance of the anticipated date of the travel or research activity. Reimbursed travel must conform to state travel regulations, which specify maximum amounts for food and lodging (see ). Please reimbursement procedures with the department administrator before you go.

Name \_\_\_\_\_

Destination and dates (inclusive) \_\_\_\_\_

Reason for trip (if paper is to be presented, indicate name and nature of the meeting, length and title or topic of the paper; if trip is for research, briefly describe the research):

Previous travel grants (include dates and sums): \_\_\_\_\_

Amount requested:

Transportation	_____	Lodging	_____
Food	_____	Other (specify)	_____

TOTAL \_\_\_\_\_

Endorsement of Major Professor \_\_\_\_\_  
Signature Date

Approved \_\_\_ Disapproved \_\_\_ Amount of grant \_\_\_\_\_

Signed (Chair or DGS) \_\_\_\_\_ Date \_\_\_\_\_



**Form G. History of Science TA Training Form**

\_\_\_\_\_ has completed the training sessions for Teaching Assistants (TAs) and Program/Project Assistants (PAs) focusing on diversity, discrimination, and harassment.

TAs who complete the sessions and have completed the requisite semesters of teaching will receive the “experienced” rate of pay at the start of the next instructional period.

\_\_\_\_\_  
Verification of attendance

\_\_\_\_\_  
Date completed



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