

The Ohio State University Colleges of the Arts and Sciences Concurrence Form

The purpose of this form is to provide a simple system of obtaining departmental reactions to course requests. A letter may be substituted for this form.

An academic unit initiating a request should complete Section A of this form and send a copy of the form, course request, and syllabus to each of the academic units that might have related interests in the course. Initiating units should be allowed two weeks for responses.

Academic units receiving this form should respond to Section B and return the form to the initiating unit. Overlap of course content and other problems should be resolved by the academic units before this form and all other accompanying documentation may be forwarded to the Office of Academic Affairs.

A. Information from the academic unit *initiating* the request

History	5/7/08
Initiating Academic Unit	Date

History	
Book 3 Listing (e.g., Portuguese)	

520.01	Science and Society in Early Modern Europe	U	5
Course Number	Title	Level	Credit Hours

Type of Request (underlined): **New Course** Course Change Course Withdrawal Other

(Please specify your department here)

Academic unit asked to review the request

5/21/08

Date response is needed (within two weeks of above date)

B. Information from the academic unit *reviewing* the request should include a reaction to the proposal, including a statement of support or non-support (continued on the back of this form or a separate sheet, if necessary).

The department is pleased to support the request for concurrence of the

above course. History 520 01

Signatures

1.	Professor & Chair	Psychology	5/27/08
Name	Position	Unit	Date
2. Name	Position	Unit	Date
3. Name	Position	Unit	Date

The Ohio State University Colleges of the Arts and Sciences New Course Request

HISTORY

 Academic Unit
 HISTORY

Book 3 Listing (e.g., Portuguese)

520.01 Science and Society in Early Modern Europe

Number	Title
SCI&SOC E MOD EUR	

18-Character Title Abbreviation

Level

Credit Hours

Summer	Autumn	Winter	X	Spring	Year 2009
--------	--------	--------	---	--------	-----------

Proposed effective date, choose one quarter and put an "X" after it; and fill in the year. See the OAA curriculum manual for deadlines.

A. Course Offerings Bulletin Information

Follow the instructions in the OAA curriculum manual. If this is a course with decimal subdivisions, then use one New Course Request form for the generic information that will apply to all subdivisions; and use separate forms for each new decimal subdivision, including on each form the information that is unique to that subdivision. If the course offered is less than a quarter or a term, please complete the Flexibly Scheduled/Off Campus/Workshop Request form.

 Description (*not to exceed 25 words*): A survey of science and its place in European society from 1550-1750

Quarter offered: Distribution of class time/contact hours: 2-2hr classes

Quarter and contact/class time hours information should be omitted from Book 3 publication (yes or no):

Prerequisite(s): English 110 or 100 and junior or senior standing or permission of instructor

Exclusion or limiting clause:

Repeatable to a maximum of _____ credit hours.

Cross-listed with:

 Grade Option (Please check): Letter ☒ S/U ☐ Progress ☐ What is course is last in the series? _____

Honors Statement:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	GEC: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Admission Condition
Off-Campus:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	EM: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	Course: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>

Other General Course Information:

(e.g. "Taught in English." "Credit does not count toward BSBA degree.")

B. General Information

Subject Code 540102 Subsidy Level (V, G, T, B, M, D, or P) B

 For explanations see the following web sites: www.ureg.ohio-state.edu/ourweb/srs/srscontent/cip/ or www.regents.state.oh.us/hei/ci/STAGE_1/sld001.htm. If you have questions please email Jed Dickhaut at Jdickhaut@exchange.ureg.ohio-state.edu.

1. Provide the rationale for proposing this course:

The purpose of this course is to give students some sense of the various strands that constitute the birth of the scientific world view in early modern Europe; to think about how changes in thought systems occur (the theories of revolutions and paradigm shifts and their detractors); and to practice the analytical and communications skills called for in working with both secondary and primary sources.

 2. List Major/Minor affected by the creation of this new course. Attach revisions of all affected programs. This course is (check one) Required ☐ Elective ☒ Other (Explain) ☐:

3. Indicate the nature of the program adjustments, new funding, and/or withdrawals that make possible the implementation of this new course.

NA

4. Is the approval of this request contingent upon the approval of other course requests or curricular requests?

Yes ☒ No ☐ List: _____

5. If this course is part of a sequence, list the number of the other course(s) in the sequence: 520.02, 520.03

6. Expected section size: 45

Proposed number of sections per year: 1

7. Do you want prerequisites enforced electronically (see OAA manual for what can be enforced)? Yes ☐

8. This course has been discussed with and has the concurrence of the following academic units needing this course or with academic units having directly related interests (*List units and attach letters and/or forms*):
Not Applicable ☒

9. Attach a course syllabus that includes a topical outline of the course, student learning outcomes and/or course objectives, off-campus field experience, methods of evaluation, and other items as stated in the OAA curriculum manual.

Approval Process. The signatures or actions on the lines in ALL CAPS (e.g. ACADEMIC UNIT) are required.

1. Joseph H Lynch Joseph H LYNCH 4/28/08
Academic Unit Undergraduate Studies Committee Chair Printed Name Date

2. Peter Hahn Peter Hahn 4/29/08
Academic Unit Graduate Studies Committee Chair Printed Name Date

3. **ACADEMIC UNIT CHAIR/DIRECTOR** Printed Name Date

4. **AFTER THE ACADEMIC UNIT CHAIR/DIRECTOR SIGNS THE REQUEST, FORWARD IT TO THE COLLEGES OF THE ARTS AND SCIENCES CURRICULUM OFFICE, 161 DENNEY HALL, 164 WEST 17TH AVENUE. THE ASC CURRICULUM OFFICE WILL FORWARD THE REQUEST TO THE APPROPRIATE COLLEGE CURRICULUM COMMITTEE.**

5. **COLLEGE CURRICULUM COMMITTEE** Printed Name Date

6. **ARTS AND SCIENCES EXECUTIVE DEAN** Printed Name Date

7. Graduate School (if appropriate) Printed Name Date

8. University Honors Center (if appropriate) Printed Name Date

9. Office of International Education (if appropriate) Printed Name Date

10. **ACADEMIC AFFAIRS** Printed Name Date

SYLLABUS: HISTORY 520.01 SCIENCE & SOCIETY IN EARLY MODERN EUROPE

Matt Goldish 306 Dulles Hall, 230 W. 17th Ave. 2-1358 goldish.1

Catalogue Description: A survey of science and its place in European society from 1550 to 1750.

>**Rationale:** The purpose of this course is to give students some sense of the various strands that constitute the birth of the scientific world view in early modern Europe; to think about how changes in thought systems occur (the theories of revolutions and paradigm shifts and their detractors); and to practice the analytical and communications skills called for in working with both secondary and primary sources.

>**Reading and Lecture:** Please be aware that, while we will discuss the readings in lecture, the main part of the lecture and discussion will often cover topics entirely different from the day's reading as well.

>**Enrollment:** All students must be officially enrolled in the course by the end of the second full week of the quarter. No requests to add the course will be approved by the Chair of the Department after that time. Enrolling officially and on time is solely the responsibility of the student.

>**Plagiarism and Academic Misconduct:** It is the responsibility of the Committee on Academic Misconduct to investigate or establish procedures for the investigation of all reported cases of student academic misconduct. The term academic misconduct includes all forms of student academic misconduct wherever committed, illustrated by, but not limited to, cases of plagiarism and dishonest practices in connection with examinations. Instructors shall report all instances of alleged academic misconduct to the committee (Faculty Rule 3335-5-487). For additional information, see the Code of Student Conduct (http://studentaffairs.osu.edu/resource_csc.asp). On plagiarism see: http://cstw.osu.edu/writingCenter/handouts/research_plagiarism.cfm

>**Writing Ability:** If you are concerned that your writing is not proficient enough, both technically and conceptually, to succeed in a 500-level history course, contact the Writing Center: <http://cstw.osu.edu>. I will grade down for poor grammar and other technical errors as well as content problems.

>**Disability Services:** Students with disabilities that have been certified by the Office for Disability Services will be appropriately accommodated, and should inform the instructor as soon as possible of their needs. The Office for Disability Services is located in 150 Pomerene Hall, 1760 Neil Avenue; telephone 292-3307, TDD 292-0901; <http://www.ods.ohio-state.edu/>.

>**Grading:** Your grade for this course will be based on:

reading quizzes (best 8 of 9)	40%
papers (2)	40%
final exam	20%

The grader and I may consider improvement when determining final grades. The usual breakdown is: A: 92 and above; A-: 89-92; B+: 87-88; B: 82-86; B-: 79-82; C+: 77-78; C: 72-76 C-: 69-72; D+: 67-68 D: 62-66; E: below 62.

Required Reading

James R. Jacob, *The Scientific Revolution: Aspirations and Achievements, 1500-1700*

Betty Jo Teeter Dobbs and Margaret C. Jacob, *Newton and the Culture of Newtonianism*

Catherine Wilson, *The Invisible World*

Reader (See below for contents)

Article and supplemental readings through our CARMEN website

READER FOR HISTORY 520.01

Part I: Secondary Sources

Brian P. Copenhaver, "Natural Magic, Hermeticism, and Occultism in Early Modern Science," in *Reappraisals of the Scientific Revolution* ed. D.C. Lindberg and R.S. Westman (Cambridge: Cambridge University Press, 1990), 261-301.

Harold J. Cook, "The New Philosophy and Medicine in Seventeenth-Century England," in *Reappraisals of the Scientific Revolution*, 397-435.

Gary B. Deason, "Reformation Theology and the Mechanistic Conception of Nature," in *God and Nature: Historical Essays on the Encounter Between Christianity and Science* ed. D.C. Lindberg and R.L. Numbers (Berkeley: University of California Press, 1986), 167-191.

Michael Hunter, "Science and Heterodoxy: An Early Modern Problem Reconsidered," in *Reappraisals of the Scientific Revolution*, 437-460.

Richard S. Westfall, "The Rise of Science and the Decline of Orthodox Christianity: A Study of Kepler, Descartes, and Newton," in *God and Nature*, 218-237.

Robert K. Merton, *Science, Technology and Society in Seventeenth-Century England*. (New Jersey: Humanities Press / Sussex: Harvester Press, 1970), Chapter VI, 112-136.

Charles Webster, "Puritanism, Separatism, and Science," in *God and Nature*, 192-217.

William Eamon, "From Secrets of Nature to Public Knowledge," in *Reappraisals of the Scientific Revolution*, 333-366.

Part II: Primary Sources

Copernicus and related documents, from *Science in Europe, 1500-1800: A Primary Sources Reader* ed. M. Oster (New York: Palgrave Macmillan, 2002), 27-44.

Paracelsus: Selected Writings ed. J. Jacobi, trans. N. Guterman (Princeton: Princeton University Press, 1951), 141-149 (on alchemy.)

Galileo Galilei, "Letter to Madame Christina of Lorraine Grand Duchess of Tuscany Concerning the Use of Biblical Quotations in Matters of Science [1615]," in *Discoveries and Opinions of Galileo* ed. S. Drake (New York: Doubleday, 1957), 174-216.

Sir Francis Bacon (Lord Verulam), *Novum Organum; or True Suggestions for the Interpretation of Nature* [London, 1620] (New York and London: The Co-operative Publication Society / Colonial Press, 1900), 311-314.

John Wilkins, *A Discourse Concerning a New Planet, Tending to prove, That 'tis probable our Earth is one of the Planets. The Second Booke, now first published* (London, 1640)

Robert Boyle, *The Christian Virtuoso...* in Boyle, *Works*, 5 vols. (London, 1744), V:37-44.

SCHEDULE

Week 1: Introduction to the early modern period and main trends in science

Week 2: Medieval and Renaissance science; Hermeticism, astrology, alchemy, magic

Week 3: Paracelsus and the chemical philosophy; medicine

Week 4: The 'New Science': Copernicus, Mersenne, Kepler, Galileo

Week 5: Bacon and Descartes: skepticism, philosophy, mechanism

Week 6: Science and Theology: Yates, Weber, Merton, Webster

Week 7: Microscopy, nature, and the expanding world

Week 8: Microscopy and philosophy

Week 9: Newton and the culture of Newtonianism

Week 10: Newtonian experimentalism: England and the Continent