

REQUEST TO ADD OR CHANGE AN UNDERGRADUATE ACADEMIC CERTIFICATE PROGRAM AND/OR REQUEST FOR RECOGNITION ON THE UNIVERSITY TRANSCRIPTS¹

- Type of Proposal:** New Certificate Program
 Change an Existing Certificate Program
 Delete a Program

Note: If the certificate program proposed for addition or change includes a requirement of 21 to 24 semester credit hours, an additional form is required for THECB approval/notification.²

Proposed classification:³ Exclusive General Major

1. IF THE ANSWER TO ANY OF THE FOLLOWING QUESTIONS IS YES, THE COLLEGE MUST CONSULT LINDA DICKENS, DIRECTOR OF ACCREDITATION AND ASSESSMENT, TO DETERMINE IF SACSCOC APPROVAL IS REQUIRED.

- Is this a new transcript-recognized certificate program? Yes No
- Is this a request to delete an existing transcript-recognized certificate program? Yes No
- Does the certificate offer courses that will be taught off campus? Yes No
- Will courses in this program be delivered electronically? Yes No
- Will courses be developed specifically for the new certificate? Yes No

2. THIS PROPOSAL INVOLVES: (Please check all that apply)

- | | | |
|--|--|---|
| <input type="checkbox"/> Courses in other colleges | <input type="checkbox"/> Courses in proposer's college that are frequently taken by students in other colleges | <input type="checkbox"/> Flags |
| <input type="checkbox"/> Course in the core curriculum | <input checked="" type="checkbox"/> Change in course sequencing for an existing program | <input type="checkbox"/> Courses that have to be added to the inventory |
| <input type="checkbox"/> Change in admission requirements (external or internal) | <input type="checkbox"/> Requirements not explicit in the catalog language (e.g., lists of acceptable courses maintained by department office) | |

3. SCOPE OF PROPOSED CHANGE:

- a. Does this proposal impact other colleges/schools? Yes No
If yes, then how?
- b. Do you anticipate a net change in the number of students in your college? Yes No
If yes, how many more (or fewer) students do you expect?
- c. Do you anticipate a net increase (or decrease) in the number of students from outside of your college taking classes in your college? Yes No
If yes, please indicate the number of students and/or class seats involved.
- d. Do you anticipate a net increase (or decrease) in the number of students from your college taking courses in other colleges? Yes No
If yes, please indicate the number of students and/or class seats involved.

If 3 a, b, c, or d was answered with yes, please answer the following questions. If the proposal has potential budgetary impacts for another college/school, such as requiring new sections or a non-negligible increase in the number of seats offered, at least one contact must be at the college-level.

How many students do you expect to be impacted?

Impacted schools must be contacted and their response(s) included:

Person communicated with:

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Date of communication:

Response:

4. **OFFICIAL CERTIFICATE NAME:** Undergraduate Certificate: **History and Philosophy of Science Certificate**
5. **CIP CODE** (administrative unit awarding the certificate):⁴ 54.01) History Subfield: 54.0104) History and Philosophy of Science and Technology
6. **STATEMENT OF OBJECTIVE:**⁵ To provide students with a guided opportunity to gain a cross-disciplinary command of the methods and findings that the liberal arts have contributed to our understanding of the sciences.
7. **NUMBER OF STUDENTS EXPECTED TO RECEIVE THE CERTIFICATE EACH SEMESTER:** Ten.
8. **NUMBER OF HOURS REQUIRED FOR COMPLETION (Note: If the number of required hours is 21 to 24, THECB form is required):**⁶ Eighteen.
9. **LIST FACULTY ON THE CERTIFICATE PROGRAM FACULTY COMMITTEE.**⁷

Name of Faculty Member	College/Department	Title at UT Austin	Highest Degree and Awarding Institution
Alberto Martiniez	Liberal Arts/History	Professor, Director of the HPS Certificate	PhD, University of Minnesota
Sahotra Sarkar	Liberal Arts/Philosophy; Natural Sciences/Biology	Professor	PhD, University of Chicago
Cory F. Juhl	Liberal Arts/Philosophy	Professor	PhD, University of Pittsburgh
David Crews	Natural Sciences/Biology; Liberal Arts/Psychology	Professor	PhD, Rutgers University
Abena Osseo-Asare	Liberal Arts/History	Associate Professor	PhD, Harvard University

10. **ACADEMIC COURSE REQUIREMENTS:**⁸ Use this table to identify the courses that qualify for this certificate program.

Course Abbreviation and Number	Course Title	SCH ⁹
HIS 322D	Scientific Revolution of the 17th Century	3
HIS 322M	History of Modern Science	3
HIS 322G	History of the Modern Life Scienc	3
HIS 329P	History of the Atomic Bomb	3
HIS 350L	The Galileo Affair	3
HIS 350L	Einstein in an Age of Conflicts	3
PHL 313	Introductory Symbolic Logic	3
PHL 363	Scientific Method	3
PHL 316K	Science and Philosophy	3
PHL 322	Science and the Modern World	3
PHL 363L	Topics in Philosophy of Science	3

11. OTHER CERTIFICATE REQUIREMENTS: None.

12. GIVE A DETAILED RATIONALE FOR CHANGE(S): A proposed change is to add the course PHL 363L as an option for fulfilling a requirement. We are requesting this change for several reasons. One is to ensure that our students have ample seats to choose from each semester. Another is to attract students who are science majors with specialized interests in philosophy of biology, philosophy of physics, etc., depending on their major. Since PHL 363L has a number of specialized topics that relate to various fields of science, it allows our students to integrate a philosophical perspective on their major field into the required courses for their certificate.

Second, we request to add four courses as optional HIS requirements HIS322G, HIS329P, HIS350L topic 32, HIS350L topic 64. The addition of these courses would solve the problem that our previous two requirements HIS322D and HIS322M are usually only taught by Prof. Bruce Hunt, such that if, as in the present of next academic year, Hunt does not teach one of them (because of other obligations), then students interested in the HPS Certificate cannot pursue or complete it. The four additional HIS courses enable students to have more latitude in choosing courses.

13. COLLEGE/SCHOOL APPROVAL PROCESS:

Department approval date:	June 28, 2016	Approved by whom:	History and Philosophy of Science Cmte.
College approval	date: March 1, 2017	Approved by whom:	Curriculum Design & Assessment Cmte
Dean approval	date: March 17, 2017	Approved by whom:	COLA Faculty

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History and Philosophy of Science Certificate

The History and Philosophy of Science Certificate provides students an opportunity to gain a coherent, cross-disciplinary command of the methods and findings that the liberal arts have contributed to our understanding of the sciences. Students analyze the dynamic development, concepts, and roles in society of various sciences, as well as the personal, dramatic struggles of famous scientists. Students must complete four courses in two required areas: history of science, and philosophy of science, as well two electives to be selected from a list of pre-approved courses in history, philosophy, astronomy, physics, or core texts and ideas.

The certificate program requires 18 semester hours of coursework, of which at least 12 semester hours of coursework must be upper-division, and including at least nine semester hours completed in residence.

Students must fulfill the following requirements:

1. Six semester credit hours, chosen from History 322D, [~~The Scientific Revolution of the Seventeenth Century, and History~~] 322M [~~History of Modern Science~~], 322G, 329P, 350L topic 32 and 64
2. Philosophy 313, Introductory Symbolic Logic, or Philosophy 363, Scientific Method
3. Philosophy 316K, Science and Philosophy, [or] Philosophy 322, Science and the Modern World, or PHL 363L Topics in the Philosophy of Science
4. Six additional semester credit hours, chosen from an approved list

Each semester, the list of approved courses that meet the requirements above is available in the Department of History undergraduate advising office.

Courses the student has completed at the time of application to the program may be counted toward the certificate. Students apply for transcript-recognized undergraduate academic certificates at the time they complete their undergraduate degree or the certificate program, whichever comes later. Transcript recognition is awarded at that time.

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Please include a draft of the catalog copy immediately following the above form. If this is an update of an existing copy, the draft should be based on the text of the current catalog available at: <http://catalog.utexas.edu/undergraduate/>. **Strike through and replace (with underlines) only the specific language to be changed. Do NOT use track changes, and do not include hyperlinks in the catalog copy.** Submit form electronically to the Office of the General Faculty and Faculty Council at fc@austin.utexas.edu. For questions on completing this section, please contact Victoria Cervantes, fc@austin.utexas.edu, 471-5934 or Brenda Schumann, brenda.schumann@austin.utexas.edu, 475-7654.

¹ Minimum Criteria for Certificate Recognition on the Transcript:

- a) The transcript-recognized undergraduate academic certificate program must be completed in conjunction with or within one year of completion of an undergraduate degree at The University of Texas at Austin; students pursuing an integrated undergraduate/graduate program must complete the requirements for the certificate within one year after completing the undergraduate requirements of their program. A maximum of nine credit hours in the certificate program may be taken after completion of the undergraduate degree.
- b) Transcript-recognized undergraduate academic certificate programs must require a minimum of eighteen hours of certificate course work, but not more than twenty-four hours.
- c) At least half of the required coursework in the certificate program must be completed in residence at The University of Texas at Austin.
- d) A student may **not** earn a certificate in the same field of study as his or her major, and at least one course required in the certificate program must be outside the requirements of the major. However, courses in the certificate program outside the major may fulfill other degree requirements such as general education requirements or required elective hours.
- e) Students apply for transcript recognized undergraduate academic certificates at the time they complete their undergraduate degree or the certificate program, whichever comes later. Transcript recognition is awarded at that time.

² To add a certificate program that requires 21 to 24 SCH's OR to increase the number of hours of an existing certificate program from 20 or less to 21 to 24 SCH's, complete the [THECB Certificate Program Certification Form](#) and submit it to the provost's office, lydia.cornell@austin.utexas.edu. To change the number of required hours for certificates currently requiring 21 to 24 SCH's, complete the [THECB Request to Change Semester Credit Hours Form](#) and submit it to the provost's office, lydia.cornell@austin.utexas.edu. Certificate programs that require 20 or fewer SCH's do not require THECB forms.

³ **EXCLUSIVE:** of *exclusive* application and of primary interest only to a single college or school ("no protest" period is *seven calendar days*); **GENERAL:** of *general* interest to more than one college or school (but not for submission to the General Faculty) ("no protest" period is *fourteen calendar days*); *major* legislation must be submitted to the General Faculty for adoption ("no protest" period is *fourteen calendar days*).

⁴ Use the federal CIP code selector site to pick a code, <http://nces.ed.gov/ipeds/cipcode>. After all other areas of this form are completed, forward a copy to the Office of Institutional Reporting, Research, and Information Systems (IRRIS) IRRIS_data_request@utlists.utexas.edu with a request to verify the CIP code ("CIP CODE" in the subject line). Include your contact information, so an IRRIS member may contact you with any questions.

⁵ Include heading in *Undergraduate Catalog* where changes will be made.

⁶ See footnote 1b above: 18 to 24 hours are required. See footnote 2 above for THECB requirements if over 20 hours.

⁷ For inclusion on transcripts, the faculty committee must have a minimum of five members and at least 2/3 of the committee must be tenured or tenure-track.

Note with an asterisk those faculty members who are tenured or tenure-track. Please also note the program chair who will be responsible for authorizing the students' certificates. Specify changes to the committee membership by noting those no longer on the committee and those added to the committee. (*Add and delete rows as needed.*)

⁸ Note with an asterisk (*) courses that would be added if the certificate program is approved. Specify changes to the qualifying courses by noting those no longer qualifying and those now qualifying. (*Add and*

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delete rows as needed.) If the course numbers and titles change on a regular basis, please indicate the types of courses and number of hours for required for each. Note with a hashtag (#) courses that require a prerequisite and provide the prerequisite course numbers.

⁹ Semester Credit Hours.