

KENT STATE UNIVERSITY CERTIFICATION OF CURRICULUM PROPOSAL

Preparation Date **11-Nov-14** Curriculum Bulletin _____
 Effective Date **Fall 2015** Approved by EPC _____

Department **Center for Comparative and Integrative Programs**
 College **AS - Arts and Sciences**
 Degree **Minor (non degree)**
 Program Name **History and Philosophy of Science** Program Banner Code _____
 Concentration(s) _____ Concentration(s) Banner Code(s) _____
 Proposal **Establish program**

Description of proposal:

To establish a new multidisciplinary minor in the History and Philosophy of Science.

Does proposed revision change program's total credit hours? Yes No

Current total credit hours: _____ Proposed total credit hours **18-19**

Describe impact on other programs, policies or procedures (e.g., duplication issues; enrollment and staffing considerations; need; audience; prerequisites; teacher education licensure):

Increase enrollments in existing courses, no negative fiscal impact. Instructional earnings go to the unit of the Instructor of record. Library budgets in History and Philosophy are sufficient. No duplication or encroachment.

Units consulted (other departments, programs or campuses affected by this proposal):

BSCI, CHEM, CS, DSCI, GEOL, HIST, MATH, PHIL, PHY, PSYC

REQUIRED ENDORSEMENTS


 _____ 11/25/2014
 Department Chair / School Director

 _____ / /
 Campus Dean (for Regional Campuses proposals)


 _____ 12/5/14
 College Dean (or designee)

 _____ / /
 Dean of Graduate Studies (for graduate proposals)

 _____ / /
 Provost and Senior Vice President for Academic Affairs (or designee)

*CCIP
54*

Proposal Summary

Proposal for History and Philosophy of Science Minor

Description of Action, Including Intended Effect: The proposed action is to create a new interdisciplinary minor in History and Philosophy of Science under the auspices of the Center for Comparative and Integrative Studies. Currently, Kent State University has no History and Philosophy of Science minor program or any programs in this field.

Impact on Other Programs, Course Offerings, Students, Faculty, Staff (e.g., duplication issues): There is no existing minor in History and Philosophy of Science. The interdisciplinary minor will rely primarily on regular courses offerings from the Department of History by Dr. Matthew Crawford and the Department of Philosophy taught by Dr. David Pereplyotchik. Their courses will be supplemented by additional courses offerings by faculty in the Departments of History and Philosophy. Students in the minor are also required to take one course in the sciences in order to gain first-hand experience and knowledge of the content of the sciences. Many students in the sciences will have fulfilled this requirement in the course of completing their major in the sciences. We hope that this Minor Program will encourage students to embrace interdisciplinary thinking and that it will give students, especially science majors, a more sophisticated understanding of what science is, how it works, and the role that science plays and has played in our society and culture.

Fiscal, Enrollment, Facilities and Staffing Considerations: The Departments of History and Philosophy currently have faculty teaching in these fields. There will be no special facilities required other than regular classrooms for teaching. Programs besides History and Philosophy from which course work is drawn have confirmed in memos that the courses are offered on a regular basis and have sufficient instructional staff. Enrollment and tuition follows the instructor of record back to their home department.

Evidence of Need and Sustainability if Establishing:

NA

Provisions for Phase-Out if Inactivating:

NA

Timetable and Actions Required: *a chronology of actions required to approve the proposal with an anticipated implementation date for each action*

Fall 2014	Review & Approval: Advisory Committee-Center for Comparative and Integrative Programs
Fall 2014	A&S Curriculum Committee Approval
Fall 2014	EPC and Faculty Senate Approval
Fall 2015	Effective

History and Philosophy of Science

[Kent State University 2014 Catalog](#) > [College of Arts and Sciences](#) > [Minors](#) > History and Philosophy of Science

College College of Arts and Sciences
Department Center of Comparative and Integrative Programs

105 Bowman Hall
Tel: 330-672-2062
Web: www.kent.edu/ccip

Science is arguably the supreme intellectual enterprise of our species. It pervades nearly every aspect of modern society. Scientific research is heavily funded by governments and private institutions; courses in science are requirements at every level of education; scientific accomplishments are honored with awards and prizes; museums display scientific achievements and inventions. Moreover, the sheer depth and breadth of scientific progress throughout human history is monumental. All of this raises questions about what science is, how it works, and how it manages to be as successful as it is. These questions define the discipline known as the History and Philosophy of Science, which aims to study science, to understand its goals and methods, its principles and practices, its failures and triumphs. This minor will prepare students from a variety of related disciplines to think about science as a social, historical and philosophical enterprise. It will also prepare students for graduate work in History of Science, Philosophy of Science, and Science and Technology Studies as well as careers in areas of public policy and educational policy related to science.

Type Legend: DD Diversity--Domestic; DG Diversity--Global; ELR Experiential Learning; KAD Kent Core Additional; KBS Kent Core Basic Sciences; KCM Kent Core Composition; KFA Kent Core Fine Arts; KHU Kent Core Humanities; KMC Kent Core Mathematics and Critical Reasoning; KSS Kent Core Social Sciences; WIC Writing Intensive

Please read the sections in the University Catalog on [Kent Core](#), [diversity](#), [writing-intensive](#) and the [experiential learning](#) requirements.

CCIP
56

History and Philosophy of Science Minor (18-19 credits)

2-DEC-14

Type	Course		Title	Credits
	I. Minor Requirements:			9 Credit Hours
	HIST 31500/ PHIL 31080		Introduction to History and Philosophy of Science <i>Foundations in the</i>	3
	HIST	31543	The Scientific Revolution	3
	PHIL	41035	Philosophy of Science	3
	II. Science Electives. Choose 3 hours of course work from the list of courses below. Students majoring in any of the sciences listed below are exempt from this requirement, and should select an additional course (3 credit hours) from section III. History and Philosophy Electives to complete the 18 credit Hours for the Minor.			3-4
	Biology			
KBS	BSCI	10001	Human Biology (3)	
KBS	BSCI	10002	Life on Planet Earth(3)	
	Chemistry			
KBS	CHEM	10030	Chemistry in Our World(3)	
KBS	CHEM	10055	Molecules of Life (3)	
	Computer Science			
	CS	10051	Introduction to Computer Sciences(3)	
	CS	10001	Computer Literacy (3)	
	Digital Sciences			
	DSCI	10010	Society, Culture, and the Digital Sciences(3)	
	DSCI	10410	Information Ethics and Social Responsibility(3)	
	Geology			
KBS	GEOL	11042	Earth and Life Through Time(3)	
KBS	GEOL	11040	How the Earth Works(3)	

		21062	Environmental Earth Science (3)	
		21080	All About the Oceans(3)	
	Mathematics			
KMC	MATH	11008	Explorations in Modern Mathematics(3)	
KMC	MATH	11009	Modeling Algebra (4)	
KMC	MATH	10041	Introductory Statistics (4)	
	MATH	12021	Calculus for Life Sciences (4)	
	Physics			
KBS	PHY	11030	Seven Ideas that Shook the Universe(3)	
KBS	PHY	21430	Frontiers in Astronomy (3)	
	Psychology			
KSS DG	PSYC	11762	General Psychology(3)	
III. History and Philosophy Electives. Choose 6 credit hours from the courses below. Additional courses subject to approval.				6
	HIST	31550	Medicine in the Modern World Since 1500 (3)	
		41071	American Social and Intellectual History 1876-Present (3)	
KMC	PHIL	21002	Introduction to Formal Logic (3)	
		30025	Environmental Ethics (3)	
		31004	British Empiricism (3)	
		31003	Continental Rationalism (3)	
		41036	Philosophy of Cognitive Science (3)	
		41037	Renaissance and Early Modern Philosophy and Science (3)	
		41040	Epistemology (3)	
Total Credit Hours for Minor				18-19

ODELL-SCOTT, DAVID

From: ODELL-SCOTT, DAVID
Sent: Tuesday, November 04, 2014 1:36 PM
To: Crawford, Matthew; Pereplyotchik, David
Subject: FW: FW: New Proposed Minor in History and Philosophy of Science

--
David W. Odell-Scott PhD
Associate Dean, College of Arts & Sciences
Center for Comparative & Integrative Programs
Professor of Philosophy

330.672.0271



From: Javed I. Khan [<mailto:javedkent@gmail.com>]
Sent: Friday, October 31, 2014 8:45 PM
To: KHAN, JAVED; ODELL-SCOTT, DAVID
Subject: Re: FW: New Proposed Minor in History and Philosophy of Science

Dear David,

Here are the answers to the three short questions.

- a) Yes, we offer CS 100051 every year. Thanks for considering it!
 - b) Indeed two more: (i) CS 10001 Computer Literacy. This is at lesser tech level- no programming (Its title we might fix sometime). (ii) Another course to consider is CS 33006 Social and *Ethical* Issues in *Computing*. *We indeed pondering if it can be improved with help from Philosophy dept. some time.*
 - c) The proposed minor in History and Philosophy of Science has no overlap/duplication with our program. Indeed it is a brilliant idea. Wish you success for the program.
- Best,

-Javed.

KHAN, JAVED wrote:

Dear Arden,

ODELL-SCOTT, DAVID

From: ODELL-SCOTT, DAVID
Sent: Tuesday, November 04, 2014 11:32 AM
To: Crawford, Matthew; Pereplyotchik, David
Subject: FW: Review Proposed Minor in History and Philosophy of Science

--
David W. Odell-Scott PhD
Associate Dean, College of Arts & Sciences
Center for Comparative & Integrative Programs
Professor of Philosophy

330.672.0271



From: LEFF, LAURA
Sent: Thursday, October 30, 2014 3:57 PM
To: ODELL-SCOTT, DAVID
Subject: RE: Review Proposed Minor in History and Philosophy of Science

Hello

A few thoughts on the proposal...

- 1) It does not encroach or duplicate anything in BSCI
- 2) The two BSCI courses, Human Biology and Life on Planet Earth, are non-science majors, Kent Core classes for which we offer multiple sections each semester, including summer
- 3) The BTEC course, Introduction to Biotechnology, is for BTEC majors..so it is not Kent Core and it has a pre-requisite of one of our freshmen science majors courses, Biological Foundations. Thus, it is not equivalent to the two BSCI classes and has a pre-req so I don't think it should be included.

On a slightly different note, I should mention by including the two BSCI courses specified you are ruling out any biology majors from being in this minor..the same thing for chemistry and physics since each of us has non-majors courses and majors courses for freshmen. That is fine with us but I wanted to let you know in case you were planning on marketing to science majors

LL

From: ODELL-SCOTT, DAVID
Sent: Thursday, October 30, 2014 3:17 PM
To: LEFF, LAURA
Subject: FW: Review Proposed Minor in History and Philosophy of Science
Importance: High

ODELL-SCOTT, DAVID

From: ODELL-SCOTT, DAVID
Sent: Tuesday, November 04, 2014 11:31 AM
To: Crawford, Matthew; Pereplyotchik, David
Subject: FW: Proposed new minor in History and Philosophy of Science

--

David W. Odell-Scott PhD
Associate Dean, College of Arts & Sciences
Center for Comparative & Integrative Programs
Professor of Philosophy

330.672.0271



From: TONGE, ANDREW
Sent: Thursday, October 30, 2014 4:10 PM
To: ODELL-SCOTT, DAVID
Subject: Re: Proposed new minor in History and Philosophy of Science

David,

The math course choice looks strange to me (no problem offering the courses, though.)
Also 14001, 14002, and I think 12021 are 4 credit courses.

14001 and 14002 are courses designed primarily for future elementary and middle school teachers. Instructors will often relate the mathematical material to teaching practice.

Is this what you really want?

Andrew

From: ODELL-SCOTT, DAVID
Sent: Thursday, October 30, 2014 3:19 PM
To: TONGE, ANDREW
Subject: RE: Proposed new minor in History and Philosophy of Science

--

David W. Odell-Scott PhD
Associate Dean, College of Arts & Sciences

CCIP
61

ODELL-SCOTT, DAVID

From: HOLM, DANIEL
Sent: Tuesday, November 04, 2014 9:19 AM
To: ODELL-SCOTT, DAVID
Subject: Re: New Proposal for History and Philosophy of Science Minor

Hi David: 1) YES. 2) GEOL 21080 All About the Oceans and GEOL 21062 Environmental Earth Science 3) This proposed History and Philosophy of Science minor does not duplicate our program or encroach upon our discipline.

best, Daniel

Dear Dan,

Attached is the draft Catalog Copy for the new proposed minor in History and Philosophy of Science. I am making three requests of you:

1. Please review the course work which we would like to include in the course offerings for the History and Philosophy of Science minor which are drawn from your discipline.
 - a. Are these courses offered at least once every two academic years? Do you have sufficient faculty to staff the course work on a two year rotation?
2. Can you identify other course work in your Department Catalog which you would consider recommending we include in the History and Philosophy of Science minor program?
3. I need as well a statement that the proposed History and Philosophy of Science minor does not duplicate your program, and does not encroach upon your discipline.

If you have any questions or concerns about this proposed History and Philosophy of Science minor, please do not hesitate to contact me.

I look forward to hearing from you,

Regards,
David

David W. Odell-Scott PhD
Associate Dean, College of Arts & Sciences
Center for Comparative & Integrative Programs
Professor of Philosophy

330.672.0271



CCIP
62

ODELL-SCOTT, DAVID

From: TUBERGEN, MICHAEL
Sent: Wednesday, November 05, 2014 11:39 AM
To: ODELL-SCOTT, DAVID
Subject: RE: Proposal for new minon in History and Philosophy of Science

Hi David,

I've had a chance to look this over without referring it to our curriculum committee.

The proposal to include CHEM 10030 "Chemistry in Our World," is fully appropriate. It is offered every semester in both face-to-face and DL formats.

The plan to include CHEM 10020 "Introduction to Chemistry" is much less good. That course (isn't the number actually 00020?) is actually a remedial course that intends to prepare students for entry into General Chemistry 1 if their background is so weak that they cannot get through the ALEKS Chemistry assessment that we require for entry into General Chemistry 1. CHEM 00020 really focuses on fundamental skills that students need to have in order to be successful in Gen. Chem. 1. There won't be much of an overview or big picture offered in this class.

I probably would have suggested that CHEM 10050 "Fundamentals of Chemistry" a pre-nursing course be substituted instead since it does give a bit larger overview of the field albeit at a lower level. There is also quite a bit of skill development in 10050 too.

We have worked hard with Nursing and we are now planning to replace CHEM 10050 with a new course that we expect will be numbered CHEM 10055 ("Molecules of Life"). This course will be heavily conceptually based rather than the quantitative emphasis found in 10050. It will aim to give students an excellent overall picture of the role of chemistry in living systems. We hope to make it a Kent Core course (replacing 10050, which has Kent Core status) and we expect that Nursing will require it as a prerequisite instead of 10050. The proposal hasn't yet reached the College in final form, but Mary Ann may be aware of it. We intend to offer it somehow in Spring 2015 as a pilot course (details evolving) for one section and then go live in Fall 2015. Since this is pre-nursing many, many sections will be offered.

I hope this is both clear and helpful. Let me know you have any further questions about my response.

Best,

Mike

From: ODELL-SCOTT, DAVID
Sent: Monday, November 03, 2014 1:21 PM
To: TUBERGEN, MICHAEL
Subject: RE: Proposal for new minon in History and Philosophy of Science

Thursday should work for me.

--

David W. Odell-Scott PhD

CCIP
64

ODELL-SCOTT, DAVID

From: ODELL-SCOTT, DAVID
Sent: Tuesday, November 04, 2014 1:39 PM
To: Pereplyotchik, David; Crawford, Matthew
Subject: FW: Proposed History and Philosophy of Science Minor

--

David W. Odell-Scott PhD
Associate Dean, College of Arts & Sciences
Center for Comparative & Integrative Programs
Professor of Philosophy

330.672.0271



From: GLEESON, JAMES
Sent: Monday, November 03, 2014 3:57 PM
To: ODELL-SCOTT, DAVID
Subject: FW: Proposed History and Philosophy of Science Minor

I hope this helps.

JG

From: <MANLEY>, "MANLEY, MARK" <manley@kent.edu>
Date: Monday, November 3, 2014 at 3:55 PM
To: "GLEESON, JAMES" <jgleeson@kent.edu>
Subject: Re: Proposed History and Philosophy of Science Minor

Hi Jim,

I agree with you. Intro. Physics Seminar is required for all physics majors and minors and I would not want another group of students taking that course because it would decrease the one-on-one opportunities for questions from the students.

Also, they have PHY 12000 listed as a 3-hr. course when it is actually a 1-hr. course. (I suspect that they have no idea that this is not a typical lecture course.)

I would point these facts out and encourage them to substitute Frontiers in Astronomy instead. They already have Seven Ideas that Shook the Universe, and these courses would be a nice pairing for students.

Their proposed program certainly does not encroach on our discipline.

CCIP
65

ODELL-SCOTT, DAVID

From: BARNBAUM, DEBORAH
Sent: Thursday, November 20, 2014 1:10 PM
To: ODELL-SCOTT, DAVID
Subject: RE: Proposed Minor in History and Philosophy of Science

Hello, David,

Thank you for your email. Yes, the Department did review this extensively.

1. Yes, the courses in question are offered at least once every two years and we have sufficient faculty to staff them.
2. No, the new minor neither duplicates our program, nor does it encroach upon our discipline.

Deborah

Deborah Barnbaum, Ph.D.

Professor and Chair of Philosophy | Kent State University
PO Box 5190 | Kent, OH | 44242-0001 | 330 672-0267

Kent State – Home of the Sellars in a New Generation Conference

From: ODELL-SCOTT, DAVID
Sent: Thursday, November 20, 2014 9:53 AM
To: BARNBAUM, DEBORAH
Cc: Pereplyotchik, David; Crawford, Matthew
Subject: Proposed Minor in History and Philosophy of Science
Importance: High

Dear Deborah,

I understand that the Department of Philosophy has reviewed and is supportive of the proposed new minor in History and Philosophy of Science in the Center for Comparative and Integrative Programs.

I have a deadline of 5:00 PM Friday, November 21st (tomorrow) to hear from you regarding the following questions. I mistakenly expect David and Matt to have requested this information from their home departments. But given the level of review of the program in Philosophy these questions should not take much time. I need in an email from you respecting the following items:

1. Please review the course work which we would like to include in the course offerings for the History and Philosophy of Science minor which are drawn from your discipline.
 - a. Are these courses offered at least once every two academic years? Do you have sufficient faculty to staff the course work on a two year rotation?
2. I need a clear statement that the proposed History and Philosophy of Science minor **does not**: (a) duplicate your program, and (b) does not encroach upon your discipline.

If you have any questions or concerns about this proposed History and Philosophy of Science minor, please do not hesitate to contact me.

I look forward to hearing from you,

Regards,
David

--

David W. Odell-Scott PhD
Associate Dean, College of Arts & Sciences
Center for Comparative & Integrative Programs
Professor of Philosophy

330.672.0271



CCIP
69

ODELL-SCOTT, DAVID

From: BINDAS, KENNETH
Sent: Thursday, November 20, 2014 11:24 AM
To: ODELL-SCOTT, DAVID
Subject: Re: Proposed Minor in History and Philosophy of Science

David,
The department responds positively to all the questions below. The minor does not encroach nor duplicate anything in the department of history.

Ken
Kenneth J. Bindas
Professor & Chair
Department of History

From: <ODELL-SCOTT>, DAVID <dodellsc@kent.edu>
Date: Thursday, November 20, 2014 at 9:55 AM
To: Ken Bindas <kbindas@kent.edu>
Cc: "Crawford, Matthew" <mcrawf11@kent.edu>, "Pereplyotchik, David" <dpereply@kent.edu>
Subject: Proposed Minor in History and Philosophy of Science

Dear Ken,

I understand that the Department of History has reviewed and is supportive of the proposed new minor in History and Philosophy of Science in the Center for Comparative and Integrative Programs.

I have a deadline of 5:00 PM Friday, November 21st (tomorrow) to hear from you regarding the following questions. I mistakenly expected David and Matt to have requested this information from their home departments. But given the level of review of the program in History these questions should not take much time. I need in an email from you respecting the following items:

1. Please review the course work which we would like to include in the course offerings for the History and Philosophy of Science minor which are drawn from your discipline.
 - a. Are these courses offered at least once every two academic years? Do you have sufficient faculty to staff the course work on a two year rotation?
2. I need a clear statement that the proposed History and Philosophy of Science minor **does not**: (a) duplicate your program, and (b) does not encroach upon your discipline.

If you have any questions or concerns about this proposed History and Philosophy of Science minor, please do not hesitate to contact me.

I look forward to hearing from you,

Regards,
David

Smith, Katherine

From: HALEY, MARY ANN
Sent: Wednesday, January 14, 2015 10:21 AM
To: Smith, Katherine
Cc: ODELL-SCOTT, DAVID; HERDINA, LORNA
Subject: RE: New minors

Hello Katie,

I have conferred with David Odell-Scott. The History and Philosophy of Science and Italian Studies minors can only be delivered on the Kent Campus. World Literature and Cultures can be delivered on the Kent and Stark Campuses.

Best regards,
Mary Ann

Mary Ann Haley, Ph.D.
Associate Dean
College of Arts and Sciences
Kent State University
105 Bowman Hall
330-672-8968

From: Smith, Katherine
Sent: Tuesday, January 13, 2015 6:03 PM
To: HALEY, MARY ANN
Subject: New minors

Hi Mary Ann,

I apologize for all the e-mails recently....

Therese has asked me to ask you about the campuses for the new minors in Arts and Sciences:

- History and Philosophy of Science
- World Literature and Cultures
- Italian Studies

She's beginning to clarify on the EPC agenda and in program materials on which campuses minors can be fully completed. To your knowledge – can any of the new A&S minors be completed at any of the regional campuses, in addition to the Kent campus? If you're not sure, we can just say "Kent campus" for now. Let me know, and thanks.

Katie J. Smith | Academic Program Coordinator
Curriculum Services, MSC 208H
Kent State University
800 E. Summit St. | Kent, OH 44242
330.672.8559