

The completed and signed proposal should be submitted by the Dean's Office to: curriculumplanning@asu.edu.
 Before academic units can advertise undergraduate concentrations or include them in their offerings as described in the university catalogs, they must be recommended for approval by the Senate Curriculum and Academic Programs Committee and approved by the Office of the University Provost.

Definition and minimum requirements:

A concentration is a formalized selection of courses within a major.

- A concentration requires a minimum of 15 credit hours of which at least nine credit hours must be upper division. Specialized concentrations (e.g., Bachelor of Science in Interdisciplinary Studies concentrations) may have additional or different requirements.
- A concentration is offered by a single unit and is intended exclusively for students pursuing a particular major. If a concentration consists of courses from more than one college, the approval of each college Dean is required.

College/School/Institute: The College of Liberal Arts and Sciences
Department/Division/School: School of Historical, Philosophical and Religious Studies
Proposing Faculty Group (if applicable): Philosophy
Are two or more academic units collaborating on this program? No, this is not a joint degree program

If "Yes", list all the additional college(s)/school(s)/institute(s) that will be involved in the development and resources for the degree program by offering courses, faculty or facilities. Please note: This question does not refer to official joint degree programs. Official joint degree programs are ones in which the degree is jointly conferred by two colleges. If the program is jointly conferred, please complete the Proposal to Establish a New Joint Undergraduate Degree Program.

Existing Degree and Major under which this concentration will be established: BA Philosophy
Proposed Concentration Name: Science, Nature and Mind
What is the first catalog year available for students to select on the undergraduate application for this program? 2021-22

Delivery method and campus or location options: *select all locations that apply*

- Downtown Phoenix
 Polytechnic
 Tempe
 Thunderbird
 West
 Other: _____
 Both on-campus and ASU Online* - (check applicable campus(es) from options listed above)
 ASU Online only (all courses online and managed by ASU Online)

Note: Once students elect a campus or online option, students will not be able to move between the on-campus and the ASU Online options. Approval from the Office of the University Provost and Philip Regier (Executive Vice Provost and Dean) is required to offer programs through ASU Online. Please contact Ed Plus then complete the ASU Online Offering form in Curriculum ChangeMaker to begin this request.

Proposal Contact

Name: Marissa Timmerman **Title:** Manager, Academic Support
Phone number: (480) 727-4029 **Email:** Marissa.R.Timmerman@asu.edu

DEAN APPROVAL(S)

This proposal has been approved by all necessary unit and College/School levels of review. I recommend implementation of the proposed organizational change.

College/School/Division Dean name: Paul C. LePore, Ph.D.

Signature:  **Date:** 9/29/2020

College/School/Division Dean name: _____
(if more than one college involved)
Signature: _____ **Date:** / /20

OVERVIEW

- A. Provide a brief description of the new concentration (including the specific focus of the new concentration, relationship to other concentrations in this degree program, etc.).

The concentration is designed for students who are particularly interested in philosophical issues connected with the conduct of science, the nature of mind (including artificial intelligence, animal minds, and knowledge processes), and philosophical work related to the natural world (e.g., sustainability and environmental ethical issues). The concentration's core requirements include both a course on philosophy of science and a course on philosophy of mind. Students must also elect three courses from an interdisciplinary list of related courses that focus on science, nature, and mind.

The relation of this new concentration to our existing Morality, Politics and Law concentration is described below in (B).

- B. Explain the unit's need for the new concentration (e.g., market demand, research base, direction of the discipline, and interdisciplinary considerations). How will the new concentration complement the existing degree program?

In addition to the regular philosophy major, we currently offer a philosophy major with a concentration in Morality, Politics, and Law. The latter concentration has been very popular and the numbers of regular philosophy and MPL majors is now roughly equal. We suspect that this is because students perceive MPL as more practical, more relevant to pre-law, and a better fit with their general interests in value questions. We now wish to offer something comparable to students who are more oriented toward the sciences--both natural and cognitive sciences--who may be pre-med, or who may be interested in adding a second major to their natural or social science major, or who have interests in sustainability and technology issues. We anticipate that this new concentration will, like the MPL concentration, be perceived as a more practical option than a regular philosophy major. The median mid-career salary of individuals with a BA in philosophy is the highest in the humanities, and higher than BAs in psychology and biology. Students thus stand to benefit in the future from majoring in philosophy but may need a more focused form of the major that better fits their long-term career plans than does the traditional major. We have refocused our PhD program around Practical and Applied Philosophy. This move to have not only a morality, politics, and law version of the undergraduate major but also a science-oriented version of the philosophy major will allow us to do at the undergraduate level what we have done at the PhD level.

1. Support and Impact

- A. Attach a supporting letter from the chair of the academic unit verifying that the proposed concentration has received faculty approval through appropriate governance procedures in the unit and that the unit has the resources to support the concentration as presented in the proposal, without impacting core course resources.
- B. Identify other related ASU programs and outline how the new concentration will complement these existing ASU programs. (If applicable, statements of support from potentially affected academic units need to be included with this proposal submission.)

SoLS offers a certificate in the History and Philosophy of Science. HPS certificate students might find it attractive to have a major like the one we are proposing that is closely related to their interests.

SoS offers both a BA and BS in sustainability. The proposed PHI concentration would make an excellent second major for such students. An HPS and an SOS course are on the list of elective science/nature courses in the concentration.

This PHI concentration might also provide a natural second major for psychology students. A number of psychology courses, which are also part of our certificate in symbolic, cognitive, and linguistic systems, are on the list of elective mind courses.

The College of Integrative Sciences and Arts offers a BS in Science, Technology and Society. Included on our list of elective science/nature courses are several STS courses.

- C. Attach a supporting letter from each college/school dean from which individual courses, or the entire concentration, are taken.

2. Academic Curriculum and Requirements

- A. Attach a PDF copy of the assessment plan printed from the University Office of Evaluation and Educational Effectiveness assessment portal demonstrating UOEEE's approval of your assessment plan for this program. Visit the assessment portal at <https://uoeee.asu.edu/assessment-portal> or contact uoeee@asu.edu with any questions.

Provide the curricular structure for this concentration. Be specific in listing required courses and specify the total minimum number of hours required for the concentration.

See attached PDF major map and checklist.

Note: We plan to expand the elective courses for the concentration in the near future.

2020 Course List for Philosophy (Science, Nature and Mind) (BA) (Proposed)

The College of Liberal Arts and Sciences | FEKKENI

University Requirements		Credit Hours	Min. Grade
Mathematical Studies (MA and CS) MAT 142: College Mathematics (MA)		3	C
Major Requirements		Credit Hours	Min. Grade
Principles of Sound Reasoning PHI 103: Principles of Sound Reasoning (L or HU)		3	C
Philosophical Methods PHI 300: Philosophical Argument and Exposition (L)		3	C
History of Philosophy Upper Division History of Philosophy Course		3	C
Logic PHI 333: Symbolic Logic OR PHI 413: Advanced Symbolic Logic		3	C
Philosophy of Science PHI 314: Philosophy of Science (HU)		3	C
Philosophy of Mind PHI 334: Philosophy of Mind (HU)		3	C
Science, Nature and Mind Electives Mind Course OR Science and Nature Course		3	C
Upper Division Mind Course		3	C
Upper Division Science and Nature Course		3	C
400-LEVEL - 6 hours 4** (400-Level) Philosophy Seminar Course		6	C
Language Requirement Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.		16	C
Electives		Credit Hours	Min. Grade
Elective		23	
Upper Division Elective		15	
Upper Division Elective OR PHI 484: Internship		3	
Track/Groups			
History of Philosophy	Mind	Science and Nature	
PHI 328: History of Ancient Philosophy (HU & H)	IAS 410: Evolution of Ideas (L or HU)	FIS 331: Technology and the Modern World	
PHI 329: History of Modern Philosophy (HU & H)	PHI 313: Probability, Evidence, and Decision or HPS 313: Probability, Evidence, and Decision	HPS 322: History of Science (HU & H)	
PHI 401: Rationalism	PHI 319: Philosophy, Computing and Artificial Intelligence (CS)	HPS 323: History of Science (HU & H) or BIO 317: History of Science (HU & H)	
PHI 402: Empiricism (HU)		HPS 331: History of Medicine (HU & H) or BIO 318: History of Medicine (HU & H)	

PHI 403: Contemporary Analytic Philosophy (HU)

PHI 330: Theory of Knowledge (HU)

PHI 331: Philosophy of Language (HU)

PHI 405: Moral Psychology

PSY 224: Introduction to Cognitive Neuroscience

PSY 323: Sensation and Perception

PSY 324: Memory and Cognition

PSY 341: Developmental Psychology (SB)

PSY 434: Cognitive Psychology (L)

HPS 349: Nature, Sustainability and Religion or JST 349: Nature, Sustainability and Religion or REL 349: Nature, Sustainability and Religion or SOS 349: Nature, Sustainability and Religion

HST 345: Environmental History (L)

MAT 411: History and Philosophy of Mathematics (HU & H)

PHI 310: Environmental Ethics (HU) or BIO 324: Environmental Ethics (HU)

PHI 320: Bioethics (HU) or BIO 312: Bioethics (HU) or IAS 340: Bioethics (HU)

PHI 322: History and Philosophy of Sustainability or HST 308: History and Philosophy of Sustainability or SOS 309: History and Philosophy of Sustainability

PHI 325: Philosophy of Social Science (HU or SB)

PHI 332: Metaphysics (HU)

PHI 409: Eco-Community Ethics (HU) or IAS 409: Eco-Community Ethics (HU)

SOC 334: Technology and Society (L or SB) or ASB 344: Technology and Society (L or SB)

SOS 310: Equity, Justice and Sustainability

STS 302: Philosophy of Science and Technology (SB)

STS 303: History of Science and Technology (H)

STS 306: Social Effects of Science and Technology (SB)

STS 331: Ethical Issues in Science and Technology (SB)

WST 340: Gender, Science, and Technology (SB)

400-Level (4**) Philosophy Seminar Course

PHI 401: Rationalism

PHI 402: Empiricism (HU)

PHI 403: Contemporary Analytic Philosophy (HU)

PHI 405: Moral Psychology

PHI 408: Feminist Ethics (HU)

PHI 413: Advanced Symbolic Logic

PHI 420: Topics in Philosophy

B. A minimum residency requirement: How many hours of the concentration must be ASU credit?

At least 12 upper-division hours within the major must be completed through ASU and The College of Liberal Arts and Sciences.

C. Provide a brief course description for each new course.

Note: All new required courses should be submitted in Curriculum Changemaker and ready for Provost's Office approval before this concentration is put on the CAPC agenda.

None at this time, but we plan to expand the elective courses for the concentration in the near future.

3. Administration and Resources

A. How will the proposed concentration be administered (including admissions, student advisement, retention, etc.)?

The School of Historical, Philosophical and Religious Studies' undergraduate advising team will handle advising for the new concentration, and the admission process will be handled through ASU's Admission Services office. Retention will be a joint effort of advisors, faculty, administrators in The College, and various support offices throughout the university.

B. What are enrollment projections for the next three years?

	1st Year	2nd Year (Yr 1 continuing + new entering)	3rd Year (Yr 1 & 2 continuing + new entering)
Number of Students (Headcount)	25	55	90

C. What are the resource implications for the proposed concentration, including any projected budget needs? Will new books, library holdings, equipment, laboratory space and/or personnel be required now or in the future? If multiple units/programs will collaborate in offering this concentration, please discuss the resource contribution of each participating program. Letters of support must be included from all academic units that will commit resources to this concentration.

No resource implications.

D. Please list the primary faculty participants regarding this proposed concentration. For interdisciplinary concentrations, please include the relevant names of faculty members from across the University.

Name	Title	Area(s) of Specialization as they relate to proposed concentration
Brad Armendt	Associate Professor	History and Philosophy of Science, Philosophy of Biology
Angel Pinillos	Associate Professor	Experimental Philosophy
Joan McGregor	Professor	Environmental Ethics
Ben Phillips	Assistant Professor	Philosophy of Mind, Cognitive Science
Tyler DesRoches	Assistant Professor	Environmental Philosophy, Philosophy of Science
Steven Reynolds	Professor	Philosophy of Mind (perception/memory)
Jeff Watson	Lecturer	Philosophy of Mind, Metaphysics
David McElhoes	Instructor	Philosophy of Science, Metaphysics
Tom Blackson	Associate Professor	Philosophy of Computing and AI
Peter Kung	Associate Professor	Philosophy of Mind

4. Additional Materials

- A. Prepare and attach a Major Map. If this program will be delivered online as well as in-person, attach a copy of both the major map and the online major map. Please use the "proposed map" function to create a Major Map in BAMB. Instructions on how to create a "proposed major map" in BAMB can be found in the Build a Major Map Training Guide.
- B. *Complete and attach the Appendix document.*
- C. Attach other information that will be useful to the review committees and the Office of the University Provost.

PROVOST OFFICE APPROVAL(S)	
<p>This proposal has been approved by all necessary Provost office levels of review. I recommend implementation of the proposed organizational change.</p>	
<p>Office of the University Provost</p>	
<p>Signature _____</p>	<p>Date: / /20</p>
<p><i>Note: An electronic signature, email, or a PDF of the signed signature page is acceptable.</i></p>	

**APPENDIX
OPERATIONAL INFORMATION FOR UNDERGRADUATE CONCENTRATIONS**

(This information is used to populate the Degree Search/catalog website.
Please consider the student audience in creating your text.)

Proposed Major and Concentration Name: Philosophy (Science, Nature and Mind)

1. Marketing Description (*Optional. 50 words maximum. The marketing description should not repeat content found in the program description.*)

Natural and social sciences raise interesting philosophical questions. How do science and pseudo-science differ? Can a physical system be conscious? How should we think about climate change and new technologies? Combine your interest in science, nature and the mind with philosophical thinking to better understand our complex world.

2. Program Description (150 words maximum)

The BA program in philosophy with a concentration in science, nature and mind combines training in philosophy with an emphasis on those questions raised by the natural, social and cognitive sciences.

Scientific investigation of the physical world and the mind inevitably makes assumptions about what sorts of things are real, the relationship of physical systems to conscious thought, and the nature of scientific explanation. The natural and social sciences are thus connected with philosophical views in metaphysics and epistemology. In addition, more applied areas of science such as those concerned with sustainability and new technologies raise ethical and policy questions as well as questions about humans' moral relationship to the natural world.

Students enrich their understanding of the natural and social sciences through courses in philosophy as well as courses from related disciplines. Students who want to complement a science major with a second major in the humanities, and students who wish to do postgraduate work in medicine, sustainability or technology can find a great fit for their interests in this program.

3. Contact and Support Information

Building code and room number: (Search ASU map)	COOR 3307
Program office telephone number: (i.e. 480/965-2100)	480/965-8364
Program Email Address:	SHPRSAadvising@asu.edu
Program Website Address:	https://shprs.asu.edu (more specific site will be created once we have approval for new concentration)

4. Additional Program Description Information

- A. Additional program fee required for this program? Yes No
- B. Does this program have a second language requirement? Yes No

5. Delivery/Campus Information Options

On-campus only (ground courses and/or iCourses)

Note: Once students elect a campus or online option, students will not be able to move between the on-campus and the ASU Online options. Approval from the Office of the University Provost and Philip Regier (Executive Vice Provost and Dean) is required to offer programs through ASU Online. Please contact Ed Plus then complete the ASU Online Offering form in Curriculum ChangeMaker to begin this request.

6. Campus/Locations indicate all locations where this program will be offered.

Downtown Phoenix Polytechnic Tempe Thunderbird West Other: _____

7. Career Opportunities & Concentration(s)

Provide a brief description of career opportunities available for this degree program with the proposed concentration. (150 words maximum)

The analytical, writing and problem-solving skills provided by a philosophy major are highly transferrable to a very wide range of jobs, and students with a degree in philosophy have the highest median income of all humanities graduates.

Graduates of the science, nature and mind concentration are prepared for career opportunities in medical and mental health fields, climate change areas and sustainability, information and policy analysis, and scientific and nature education and writing. For example, graduates may find employment with the U.S. Environmental Protection Agency.

This program also provides excellent preparation for students interested in medical school.

8. Additional Freshman Admission Requirements

If applicable, list any freshman admission requirements that are higher than and/or in addition to the university minimum undergraduate admission requirements.

none

9. Additional Transfer Admission Requirements

If applicable, list any admission requirements for transfer students that are higher than and/or in addition to the university minimum undergraduate transfer admission requirements.

none

10. Change of Major Requirements

Standard change of major text is as follows: A current ASU student has no additional requirements for changing majors. Students should refer to <https://students.asu.edu/changingmajors> for information about how to change a major to this program.

If applicable, list any additional requirements for students who may change their major into this program.

none

11. Keywords

List all keywords used to search for this program (limit 10). Keywords should be specific to the proposed program.

Sustainability, technology, cognition, psychology, medicine, biology, society, ecology, knowledge, health

12. Advising Committee Code

List the existing advising committee code associated with this degree.

UGASPL

*Note: If a new advising committee needs to be created, please complete the following form:
Proposal to create an undergraduate advising committee*

13. Change of Major E-mail Address

SHPRSAdvising@asu.edu

14. Western Undergraduate Exchange (WUE) Eligible

Has a request been submitted to the University Provost by the Dean to consider this degree program as eligible for [WUE](#)?

No

*Note: **No** action will be taken during the implementation process with regards to WUE until approval is received from the University Provost.*

15. First Required Math Course

List the first math course required in the major map.

MAT 142

16. Math Intensity

a. List the highest math required on the major map. (This will not appear on Degree Search.)

MAT 142

b. What is the math intensity as indicated by the highest math required on the major map? Math intensity categorization can be found here: <https://catalog.asu.edu/mathintensity>

General

17. ONET Codes

Identify ONET/SOC codes that should be displayed on Degree Search. ONET/SOC codes can be found at: <http://www.onetonline.org/crosswalk/SOC/>. Alternate titles displayed on Degree Search may vary and can be found at: <https://catalog.asu.edu/alternate-career-titles>.

27-3042.00	Technical Writers	29-1069.00	Physician and Surgeons, All Other
.....			
11-9121.00	Natural Sciences Managers	19-4061.00	Social Science Research Assistants
.....			
13-1199.05	Sustainability Specialists	19-2041.00	Climate Change Analyst
.....			
25-1126.00	Philosophy and Religion Teachers, Postsecondary	19-2041.03	Industrial Ecologist
.....			
19-1042.00	Medical Scientists, Except Epidemiologists	19-3039.00	Psychologists, All Other
.....			

18. Area(s) of Interest

A. Select **one (1)** primary area of interest from the list below that applies to this program.

- | | |
|--|--|
| <input type="checkbox"/> Architecture & Construction | <input type="checkbox"/> Health & Wellness |
| <input type="checkbox"/> Arts | <input checked="" type="checkbox"/> Humanities |
| <input type="checkbox"/> Business | <input type="checkbox"/> Interdisciplinary Studies |
| <input type="checkbox"/> Communications & Media | <input type="checkbox"/> Law, Justice & Public Service |
| <input type="checkbox"/> Computing & Mathematics | <input type="checkbox"/> STEM |
| <input type="checkbox"/> Education & Teaching | <input type="checkbox"/> Science |
| <input type="checkbox"/> Engineering & Technology | <input type="checkbox"/> Social and Behavioral Sciences |
| <input type="checkbox"/> Entrepreneurship | <input type="checkbox"/> Sustainability |
| <input type="checkbox"/> Exploratory | |

B. Select **one (1)** secondary area of interest from the list below that applies to this program.

- | | |
|--|--|
| <input type="checkbox"/> Architecture & Construction | <input type="checkbox"/> Health & Wellness |
|--|--|

- Arts
- Business
- Communications & Media
- Computing & Mathematics
- Education & Teaching
- Engineering & Technology
- Entrepreneurship
- [Exploratory](#)
- Humanities
- [Interdisciplinary Studies](#)
- Law, Justice & Public Service
- [STEM](#)
- [Science](#)
- Social and Behavioral Sciences
- Sustainability

The following fields are to be completed by the Office of the University Provost.

CIP Code:

Plan Code:

BA in Philosophy (Science, Nature and Mind)

UOEEE Status: UOEEE Provisional Approval

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Mission

In keeping with ASU's mission of accessibility, the Science, Nature, and Mind concentration in the major aims to increase the representation of women and racial/ethnic minorities in the philosophy major, groups nationally under-represented in philosophy. Those students tend to place special emphasis on majors perceived as economically practical. The Science, Nature, and Mind concentration fits students with career aspirations related to the natural and social sciences. In keeping with ASU's aims to transcend disciplinary boundaries and the Philosophy program's commitment to innovative programs that connect philosophy to other areas of inquiry and that emphasize the social relevance of philosophy, this major bridges the disciplines of philosophy and the natural and social sciences.

Goals

Student will develop and graduates will apply the following instructional goals: 1. To acquire the skill, both oral and written, to present a logically well-argued and respectfully defended philosophical position that correctly uses technical terminology. This is the core skill that must be mastered for success in a philosophy major. It is also of general value for a career in which effective speaking and writing is important. 2. To acquire a sufficient grasp of central metaphysical and epistemological theories in both philosophy of mind and philosophy of science to be able to explain and assess the merits and demerits of those theories. Knowledge of the philosophical sub-disciplines of metaphysics and epistemology is a requisite part of successfully completing a philosophy major as well as for more advanced academic work in philosophy. 3. To acquire specific knowledge of foundational theories and issues in philosophy of mind and philosophy of science and to be able to explain and to assess the merits and demerits of those theories. Students' understanding of their coursework in psychology or in the natural science will be enriched, and those going on to advanced study in philosophy, psychology, or the natural sciences will have a better understanding of foundational issues in those disciplines. 4. To acquire skill at constructing more formal logical arguments and at assessing deductive validity by learning the rules of deductive inference and understanding the concept of logical validity. Mastery of both the basic skill of enumerating the premises of and identifying valid inferences in prose arguments as well as constructing proofs of deductive validity using symbolic notation and the rules of inference must be mastered for success in a philosophy major in which logic is a central sub-discipline. Skill at detecting deductively valid inferences is valuable in any career in which capacity to see and explain how one logically got from A to Z is valued.

Outcome 1

Students will be able to clearly present and defend a philosophical view about a specific sub-topic in science, nature, or mind using concepts, technical terminology, and methods acquired in an advanced topical seminar as well as skills in logical analysis and civil and respectful argumentation.

Concepts

Students will use the concepts, technical terminology, and philosophical methods central to the specific seminar topic related to philosophical study of science, nature, and mind

Competencies

Ability to identify and address philosophical questions relevant to a specific sub-topic in the study of science, nature, and mind, and to present and explain a philosophical view in verbal and written communication.

Assessment Process: The advanced skills in public presentation, scholarly paper writing, and collegial discussion that are the focus of Outcome 1 will be assessed in students' capstone PHI 420

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seminar course via a formal presentation, an original paper, and in-class and electronic discussions. In measuring student performance related to Outcome 1's focus on writing and oral presentation skills, the rubric evaluates students on correct use of terminology, logically well-ordered thought, accuracy of content, and adequacy of argumentation. The Director of Undergraduate Studies will monitor assessment results to ensure that criteria are sufficiently demanding

Measure 1

Students will demonstrate skill at orally presenting a philosophical view that is logically well-ordered, adequately argued, and correctly uses philosophical terminology.

Performance Criterion 1

On a class presentation, 80% of students will score an average of 3 (out of 4) based on correct use of terminology, logically well-ordered thought, accuracy of content, and adequacy of argumentation.

Measure 2

Students will demonstrate skill at presenting a philosophical view in writing that is logically well-ordered, adequately argued, and correctly uses philosophical terminology.

Performance Criterion 2

On a written paper, 80% of students have an average rubric score of 3 (out of 4) based on correct use of terminology, logically well-ordered thought, accuracy of content, and adequacy of argumentation.

Measure 3

In discussions with peers, students will demonstrate skill at such basics of civil argument as avoiding ad hominem and straw man arguments, providing reasoned arguments, and adhering to the ethical principle of respect.

Performance Criterion 3

In in-class discussions and/or Canvas discussion board posts, 90% of students will satisfactorily, as opposed to unsatisfactorily, engage their peers in reasoned, civil, ethically respectful ways.

Outcome 2

Students will be able to evaluate how well such different theories of mind as dualism, behaviorism, identity theory, functionalism and eliminativist materialism solve the mind-body problem and the problem of explaining phenomenal consciousness.

Concepts

Students will utilize central concepts and theories in philosophy of mind, including dualism, behaviorism, identity theory, functionalism, and eliminativist materialism

Competencies

Ability to explain major theories of mind

Assessment Process: The mastery of core information in philosophy mind that is the focus of Outcomes 2 will be assessed via essay exams and quizzes covering the major units of PHI 334 Philosophy of Mind. In measuring student performance related to Outcome 2, the rubric evaluates students on correct use of terminology, accurate description of the theory, accurate description of one or more problems with the theory, and accurate description of one or more merits of the theory. The Director of Undergraduate Studies will monitor assessment results to ensure that criteria are sufficiently demanding.

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Measure 1

Students will demonstrate ability to utilize central concepts and to explain major theories in philosophy of mind by correctly describing and evaluating one of these theories of mind: dualism, behaviorism, identity theory, functionalism, eliminativist materialism

Performance Criterion 1

On an assignment focused on a theory of mind, 80% of students have an average rubric score of 3 or better (out of 4) based on correct use of terminology, accurate description of the theory, accurate description of one or more problems with the theory, and accurate description of one or more merits of the theory.

Measure 2

Students will demonstrate ability to utilize central concepts and to explain major theories in philosophy of mind by correctly describing and evaluating a second one of these theories of mind: dualism, behaviorism, identity theory, functionalism, eliminativist materialism.

Performance Criterion 2

On an assignment focused on a theory of mind, 80% of students have an average rubric score of 3 or better (out of 4) based on correct use of terminology, accurate description of the theory, accurate description of one or more problems with the theory, and accurate description of one or more merits of the theory.

Outcome 3

Students will be able to evaluate different approaches to understanding the nature of scientific justification, the aims of science and how they can be achieved, and what makes some theories preferable to others.

Concepts

Students will utilize such central concepts and theories in philosophy of science as verificationism, falsificationism, induction, underdetermination, and scientific paradigms

Competencies

Ability to explain central epistemological and metaphysical issues in the conduct of science and the nature of scientific reasoning and explanation.

Assessment Process: The mastery of core information in philosophy of science that is the focus of Outcome 3 will be assessed via essay exams and quizzes covering the major units of PHI 314 Philosophy of Science. In measuring student performance related to Outcomes 3, the rubric evaluates students on correct use of terminology, logically well-ordered thought, accuracy of content, and adequacy of argumentation. The Director of Undergraduate Studies will monitor assessment results to ensure that criteria are sufficiently demanding.

Measure 1

Students will demonstrate ability to utilize central concepts in philosophy of science and to explain different approaches to, and problems for, the nature of scientific justification by applying their understanding of such topics as verificationism, falsificationism, theories of confirmation and/or evidence (e.g., hypothetico-deductivism and Bayesianism), the problem of underdetermination, and the problem of induction.

Performance Criterion 1

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On an assignment covering topics related to scientific justification, 80% of students will have an average rubric score of 3 (out of 4) or better based on correct use of technical terminology, logically well-ordered thought, accuracy of content, and adequacy of argumentation.

Measure 2

Students will demonstrate ability to utilize central concepts in philosophy of science and to explain different ways of understanding the aims of science and how they can be achieved by applying their understanding of such topics as scientific reasoning and explanation, induction, scientific paradigms vs. research programs theories and models, Logical Positivism, Popper's "Conjectures and Refutations."

Performance Criterion 2

On an assignment in covering topics related to scientific progress, 80% of students will have an average rubric score of 3 (out of 4) or better based on correct use of technical terminology, logically well-ordered thought, accuracy of content, and adequacy of argumentation.

Measure 3

Students will demonstrate ability to utilize central concepts in philosophy of science and to analyze what makes some scientific theories preferable to others by applying their understanding of such topics as experiment and observation, the nature and historical development of scientific theories, and the norms and practices of scientific communities including American scientific institutions.

Performance Criterion 3

On an assignment related to theory choice, 80% of students will have an average rubric score of 3 (out of 4) or better based on correct use of technical terminology, logically well-ordered thought, accuracy of content, and adequacy of argumentation.

Outcome 4

Students will be able to apply the concept of formal validity and the rules of deductive inference to evaluate the deductive validity of prose arguments and to construct formalized proofs in symbolic logic.

Concepts

Students will use the concepts of formal validity, formalization, operator, variable, quantifier, rule of inference

Competencies

Abilities to construct a logically well-formed argument, reconstruct a prose argument in numbered premises, use such inference rules as modus ponens and modus tollens, assess the validity of an argument, and complete formal proofs in sentential and predicate logic.

Assessment Process: The logical reasoning skills, both in prose writing and in formalized argument proofs that are the focus of Outcome 4 will be assessed by a specific assignment in PHI 300 Philosophical Argument and Exposition in which students reconstruct a prose argument as numbered premises and in PHI 333 Symbolic Logic on the completion of formal proofs of validity. The Director of Undergraduate Studies will monitor assessment results to ensure that criteria are sufficiently demanding.

Measure 1

Last Action:
September 15, 2020 8:28 AM

Last User:
Mark McCain (mfmccain)

BA in Philosophy (Science, Nature and Mind)

UOEEE Status: UOEEE Provisional Approval

09/23/2020 05:29 AM

Using their knowledge of logical concepts and rules of inference, students will demonstrate skill at reconstructing a prose argument as a formal argument with numbered premises and conclusion.

Performance Criterion 1

80% of students will receive an average rubric score of 3 (out of 4) or better on a class assignment that requires students to reconstruct a prose argument in numbered premises and conclusion.

Measure 2

Using their knowledge of logical concepts and rules of inference, students will demonstrate skill at assessing the logical validity of formalized arguments and at constructing formal deductive proofs using symbolic notation.

Performance Criterion 2

75% of students in PHI 333 (Symbolic Logic) will demonstrate satisfactory skill in evaluating formal arguments as measured by their performance on exams covering sentential and predicate logic.

General Education Knowledge Areas

Composition, Communication & Rhetoric

Measure

O1M2;O1M1;O4M1;O1M3

Effective, clear, logically well-ordered oral and written communication and skill at providing reasoned arguments for views is critical to success not only in philosophy but any career in which effective, reasoned communication is involved

Mathematics/ quantitative reasoning

Measure

O4M2

Skill

at working out deductive proofs expressed in formalized notation is similar to constructing mathematical proofs.

Literature, Fine Arts & Humanities

Measure

O2M1;O2M2;O3M3;O3M2;O3M1

In mastering the skill of using the distinctive concepts, theories, and reasoning and argumentation style of philosophy of mind and philosophy of science, students will gain an appreciation for the distinctive forms of reasoning and focus on fundamental questions characteristic of the core humanities discipline of philosophy.

Social/ behavioral sciences

Measure

O2M1;O2M2

By mastering major philosophical theories of mind, which concern the relationship between mind/consciousness and

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body/brain, students are positioned to think critically about and appreciate the value of empirical work in psychology.

Natural sciences

Measure

O3M2;O3M3

Students acquire a better understanding of the nature of science and scientific reasoning and explanation, the aims of science, and the role of scientific communities.

American Institutions, Economics & History

Narrative

Students will take general education courses related to American institutions, economics and history.

Ethics and Ethical Reasoning

Narrative

Students in this philosophy major concentration are required to satisfy an area requirement in value theory, and thus will take other a course explicitly focused on ethics and ethical reasoning.

Civil Discourse/ Civic Knowledge

Measure

O1M3

Skill

at reasoned argument and rational persuasion is critical to civil discourse on controversial topics.

Global Awareness, Diversity & Inclusion

Narrative



Students will complete general education courses or additional coursework in the philosophy major focused on diversity and inclusion.




2020 - 2021 Major Map



Philosophy (Science, Nature and Mind) , (Proposed)

School/College:

FEKKENI

Term 1 0 - 16 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	C	<ul style="list-style-type: none"> • SAT, ACT, Accuplacer, IELTS, or TOEFL score determines placement into first-year composition courses • Mathematics Placement Assessment score determines placement in mathematics course • ASU 101 or college-specific equivalent First-Year Seminar required of all first-year students • ASU Language Placement and Testing: Only true beginners are eligible for 101-level second language courses. All other students are required to take a placement exam, regardless of prior credit earned, to verify the course level is appropriate. Students already proficient in a second language may take a proficiency exam. • Select your Career Interest Communities and play me3@ASU.
LIA 101: Student Success in The College of Liberal Arts and Sciences	1		
MAT 142: College Mathematics (MA)	3	C	
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	C	
Complete 2 courses: Elective	5		
Maintain 2.00 GPA in Critical Tracking Courses.			
Term hours subtotal:	16		

Term 2 16 - 30 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
 ENG 101: First-Year Composition or ENG 102: First-Year Composition OR ENG 105: Advanced First-Year Composition OR ENG 107: First-Year Composition or ENG 108: First-Year Composition	3	C	<ul style="list-style-type: none"> • Explore opportunities to study abroad. • Join a student club or professional organization. • Activate your Handshake account and build out your profile. • If interested in a health career, attend a Pre-Health 101 workshop.
 PHI 103: Principles of Sound Reasoning (L or HU)	3	C	
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	C	
Natural Science - Quantitative (SQ)	4		
Complete ENG 101 OR ENG 105 OR ENG 107 course(s).			
Maintain 2.00 GPA in Critical Tracking Courses.			
Term hours subtotal:	14		

Term 3 30 - 46 Credit Hours Critical course signified by 	Hours	Minimum Grade	Notes
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	C	<ul style="list-style-type: none"> • Choosing a Humanities (HU) course that also satisfies the Historical Awareness (H) requirement is recommended. • Choosing a Social-Behavioral Sciences (SB) course that also satisfies the Cultural Diversity (C) requirement is recommended. • If interested in a health career, review the Pre-Health website. • If interested in law school, review the Pre-Law website.
Computer/Statistics/Quantitative Applications (CS)	3		
Humanities, Arts and Design (HU) AND Historical Awareness (H)	3		
Social-Behavioral Sciences (SB) AND Cultural Diversity in the U.S. (C)	3		
Elective	3		
 Complete Mathematics (MA) requirement.			

Complete First-Year Composition requirement.

Maintain 2.00 GPA in Critical Tracking Courses.

Term hours subtotal: 16

- If planning on a health career, choose electives that satisfy **medical or dental school requirements for admission**.

Term 4 46 - 60 Credit Hours Critical course signified by ⚠	Hours	Minimum Grade	Notes
Second Language: Requirement satisfied through the following: * Completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV.	4	C	<ul style="list-style-type: none"> • Choosing a Social Behavioral Sciences (SB) course that also satisfies the Global Awareness (G) requirement is recommended if these requirements have not already been satisfied. • Visit Career and Professional Development Services and meet with a career advisor for assistance with career planning and networking. • If interested in a health career, make an appointment with a pre-health advisor. • If interested in law school, make an appointment with the pre-law advisor.
Natural Science - General (SG) OR Natural Science - Quantitative (SQ)	4		
Social-Behavioral Sciences (SB) AND Global Awareness (G)	3		
Elective	3		
⚠ Maintain 2.00 GPA in Critical Tracking Courses.			
Term hours subtotal:	14		

Term 5 60 - 75 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHI 300: Philosophical Argument and Exposition (L)	3	C	<ul style="list-style-type: none"> • Please see "History of Philosophy" course list below. • Participate in an internship to gain valuable career experience and contacts. For help exploring internship opportunities related to your major, meet with an academic advisor. • If planning on a health career, prepare to take entrance exams for professional school.
★ PHI 314: Philosophy of Science (HU)	3	C	
★ Upper Division History of Philosophy Course	3	C	
Upper Division Elective OR PHI 484: Internship	3		
Elective	3		
Term hours subtotal:	15		

Term 6 75 - 90 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ PHI 333: Symbolic Logic OR PHI 413: Advanced Symbolic Logic	3	C	<ul style="list-style-type: none"> • Please see "Mind" and "Science and Nature" course lists below. • Consider participating in an Undergraduate Research Experience through the School of Historical, Philosophical and Religious Studies or a research opportunity in the Humanities Lab. • If planning on law school, prepare to take the LSAT. • Thinking about graduate school? Consider registering for a grad school test prep course.
★ PHI 334: Philosophy of Mind (HU)	3	C	
Mind Course OR Science and Nature Course	3	C	
Complete 2 courses: Upper Division Elective	6		
★ Complete Cultural Diversity in the U.S. (C) AND Global Awareness (G) AND Historical Awareness (H) course(s).			
Term hours subtotal:	15		

Term 7 90 - 105 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ 4** (400-Level) Philosophy Seminar Course	3	C	<ul style="list-style-type: none"> • Please see "Science and Nature" course list below. • Use Handshake to research employment opportunities. • Attend career fairs, workshops and related events offered by Career and Professional Development Services.
Upper Division Science and Nature Course	3	C	
Complete 2 courses: Upper Division Elective	6		
Elective	3		
Term hours subtotal:	15		

Term 8 105 - 120 Credit Hours Necessary course signified by ★	Hours	Minimum Grade	Notes
★ 4** (400-Level) Philosophy Seminar Course	3	C	<ul style="list-style-type: none"> • Please see "Mind" course list below. • Take advantage of mock interview opportunities and assistance with writing resumes and cover letters. • Apply for full-time career opportunities.
Upper Division Mind Course	3	C	
Upper Division Elective	3		
Complete 2 courses:			
Elective	6		
Term hours subtotal:	15		

- PHI 420 is a variable topics course that may be taken more than once, so long as the topics are different.

Hide Course List(s)/Track Group(s)

History of Philosophy	Mind	Science and Nature
PHI 328: History of Ancient Philosophy (HU & H)	IAS 410: Evolution of Ideas (L or HU)	FIS 331: Technology and the Modern World
PHI 329: History of Modern Philosophy (HU & H)	PHI 313: Probability Evidence and Decision or HPS 313: Probability Evidence and Decision	HPS 322: History of Science (HU & H)
PHI 401: Rationalism	PHI 319: Philosophy Computing and Artificial Intelligence (CS)	HPS 323: History of Science (HU & H) or BIO 317: History of Science (HU & H)
PHI 402: Empiricism (HU)	PHI 330: Theory of Knowledge (HU)	HPS 331: History of Medicine (HU & H) or BIO 318: History of Medicine (HU & H)
PHI 403: Contemporary Analytic Philosophy (HU)	PHI 331: Philosophy of Language (HU)	HPS 349: Nature Sustainability and Religion or JST 349: Nature Sustainability and Religion or REL 349: Nature Sustainability and Religion or SOS 349: Nature Sustainability and Religion
	PHI 405: Moral Psychology	HST 345: Environmental History (L)
	PSY 224: Introduction to Cognitive Neuroscience	MAT 411: History and Philosophy of Mathematics (HU & H)
	PSY 323: Sensation and Perception	PHI 310: Environmental Ethics (HU) or BIO 324: Environmental Ethics (HU)
	PSY 324: Memory and Cognition	PHI 320: Bioethics (HU) or BIO 312: Bioethics (HU) or IAS 340: Bioethics (HU)
	PSY 341: Developmental Psychology (SB)	PHI 322: History and Philosophy of Sustainability or HST 308: History and Philosophy of Sustainability or SOS 309: History and Philosophy of Sustainability
	PSY 434: Cognitive Psychology (L)	PHI 325: Philosophy of Social Science (HU or SB)
		PHI 332: Metaphysics (HU)
		PHI 409: Eco-Community Ethics (HU) or IAS 409: Eco-Community Ethics (HU)
		SOC 334: Technology and Society (L or SB) or ASB 344: Technology and Society (L or SB)
		SOS 310: Equity Justice and Sustainability

STS 302: Philosophy of Science and Technology (SB)

STS 303: History of Science and Technology (H)

STS 306: Social Effects of Science and Technology (SB)

STS 331: Ethical Issues in Science and Technology (SB)

WST 340: Gender Science and Technology (SB)

400-Level (4**) Philosophy Seminar Course

PHI 401: Rationalism

PHI 402: Empiricism (HU)

PHI 403: Contemporary Analytic Philosophy (HU)

PHI 405: Moral Psychology

PHI 408: Feminist Ethics (HU)

PHI 413: Advanced Symbolic Logic

PHI 420: Topics in Philosophy

Notes:

- Please keep in mind that the applicability of a specific transfer course toward an ASU degree program depends on the requirements of the department, division, college or school in which you are enrolled at ASU. Transfer agreements that guarantee the completion of university level requirements do not necessarily meet college and major requirements. Please consult with an advisor for more information.
- At least 12 upper-division hours in the major must be in courses offered by The College of Liberal Arts and Sciences.

Total Hours: 120

Upper Division Hours: 45 minimum

Major GPA: 2.00 minimum

Cumulative GPA: 2.00 minimum

Total hrs at ASU: 30 minimum

Hrs Resident Credit for

Academic Recognition: 56 minimum

Total Community College Hrs: 64 maximum

Total College Residency Hrs: 12 minimum

General University Requirements Legend

General Studies Core Requirements:

- Literacy and Critical Inquiry (L)
- Mathematical Studies (MA)
- Computer/Statistics/Quantitative Applications (CS)
- Humanities, Arts and Design (HU)
- Social-Behavioral Sciences (SB)
- Natural Science - Quantitative (SQ)
- Natural Science - General (SG)

General Studies Awareness Requirements:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)

First-Year Composition

General Studies designations listed on the major map are current for the 2020 - 2021 academic year.

Marissa Timmerman

From: Richard Amesbury
Sent: Thursday, September 17, 2020 1:31 PM
To: Cheshire Calhoun; Manisha Master; Marissa Timmerman
Subject: FW: Statement of Support -- New Philosophy Concentration

Letter of support from College of Global Futures (which houses both SFIS and SOS):

From: Christopher Boone <Christopher.G.Boone@asu.edu>
Date: Thursday, September 17, 2020 at 1:08 PM
To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>
Cc: Richard Amesbury <Richard.Amesbury@asu.edu>
Subject: RE: Statement of Support -- New Philosophy Concentration

Hi Jeffrey,

The College of Global Futures is happy to support the proposal. I reached out to my ADs and to school leadership in the college. Here is a summary from them.

The proposed Philosophy major concentration in Science, Nature, and Mind in SHPRS is complementary to programs offered within the College of Global Futures, and does not overlap in ways that would substantially impact the college's programs. Given the emphasis on and interest in responsible and ethical actions with respect to the environment, society, innovation, and the planet more broadly within the College of Global Futures, there are a number of potential synergies between our programs and the proposed concentration that have the potential to further support our students and enhance their experience at ASU where they have a specific interest in the intersection between philosophy, science and nature. This includes considerations of future courses and potential cross-listings that bridge programs in this area.

Below are suggestions for electives within the concentration:

FIS 305 Ways of Knowing
FIS 335 Designing Knowledge
SOS 310 Equity, Justice and Sustainability

Christopher Boone
Dean, College of Global Futures
Professor, School of Sustainability



<https://collegeofglobalfutures.asu.edu/>
PO Box 875502, Tempe, AZ 85287-5502
Executive Assistant: Lorraine.Protocollo@asu.edu
480-965-2236

The College of Global Futures embraces ASU's mission as being a comprehensive public research university, measured not by whom it excludes, but rather by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves. We support and foster a culture of inclusiveness, tolerance, and respect that promotes equal opportunity and diversity among faculty, staff, and students and through our engagement with diverse communities within and beyond the University.

From: Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu>
Sent: Monday, September 14, 2020 5:22 PM
To: Christopher Boone <Christopher.G.Boone@asu.edu>
Cc: Richard Amesbury <Richard.Amesbury@asu.edu>
Subject: Statement of Support -- New Philosophy Concentration

Dear Chris,

I hope you're doing well.

The College of Liberal Arts and Sciences is requesting a Statement of Collaboration and Impact for a new Philosophy major concentration in *Science, Nature, and Mind* in SHPRS. Would you please provide through any relevant stakeholders a statement describing the opportunities for cross-university collaboration and optimization presented by this new program? How will the new program provide opportunities or areas for growth within the university? In what areas do you anticipate that there may be duplication of efforts or negative impact on the College of Global Futures? If you would also include a statement of support (or not) for the proposal we would be grateful.

I am happy to talk more if that would be useful.

All the best,
Jeffrey

Jeffrey J Cohen

Dean of Humanities & Professor of English
College Of Liberal Arts & Sciences
Arizona State University

[Support](#) the Humanities | [Study](#) the Humanities

From: Richard Amesbury <Richard.Amesbury@asu.edu>

Dear Jeffrey,

The School of Historical, Philosophical and Religious Studies is proposing a new Philosophy major concentration – *Science, Nature, and Mind*. I include the attached draft proposal document and below a short statement from our Philosophy Faculty Head – Cheshire Calhoun – with an overview of this new concentration for the undergraduate Philosophy degree.

We are enthusiastically proposing a new concentration in the Philosophy major and hope you will support it. This concentration is designed for students who have a strong interest in the natural sciences, social sciences, technology, and sustainability. It allows students to focus on the conduct of science, the nature of mind (including artificial intelligence, animal minds, and knowledge processes), and work related to the natural world (including sustainability environmental philosophy, and philosophy of technology). While the core requirements

include courses on philosophy of science and philosophy of mind, students also elect courses from an interdisciplinary list of related courses that focus on science, nature and mind. We think this new concentration will make a great second major for many students, and a sole major for philosophically inclined students who have a strong interest in natural and social sciences and who might have minors in those areas.

Cheshire Calhoun
Chair, APA Board of Officers
CLAS Trustee Professor of Philosophy & Faculty Head
School of Historical, Philosophical and Religious Studies
Arizona State University
PO. Box 874302
Tempe, AZ 85287-4302

We would like to solicit a statement of support from the College of Global Futures. Would you please forward this request the relevant parties via Dean Boone?

Many thanks,
Richard

Richard Amesbury
Director, School of Historical, Philosophical & Religious Studies
Professor of Religious Studies
Arizona State University

ASU School of Historical, Philosophical
and Religious Studies

Arizona State University



FROM: Richard Amesbury

DATE: February 7, 2020

RE: PHI Concentration in Science, Nature and Mind

This is to confirm my support as Director of the School of Historical, Philosophical and Religious Studies (SHPRS) for the proposed Philosophy concentration in Science, Nature and Mind. This proposal was developed and approved by Philosophy faculty in accordance with relevant procedures, and SHPRS has the resources to support the concentration without adverse impact.

The new concentration is designed for students with interests in philosophical issues connected with science and mind, including artificial intelligence, animal minds, and knowledge processes. Following on the success of our Philosophy concentration in Morality, Politics, and Law, we believe that this will be an attractive option for students with interests in the practical application of philosophical thought to issues in science.

Marissa Timmerman

From: Richard Amesbury
Sent: Friday, October 11, 2019 8:53 AM
To: Cheshire Calhoun; Marissa Timmerman
Subject: Fwd: SOLS Statement of Support -- New Philosophy Concentration

Please find a letter of support from SOLS below.

Richard Amesbury
Director, School of Historical, Philosophical and Religious Studies
Professor of Religious Studies
Arizona State University

From: Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu>
Sent: Thursday, October 10, 2019 4:38 AM
To: Nancy Gonzales
Cc: Richard Amesbury
Subject: Re: SOLS Statement of Support -- New Philosophy Concentration

Thank you so much for this, Nancy!

Jeffrey J Cohen
Dean of Humanities
The College of Liberal Arts and Sciences at Arizona State University

From: Nancy Gonzales <nancy.gonzales@asu.edu>
Date: Wednesday, October 9, 2019 at 1:59 PM
To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>
Subject: RE: SOLS Statement of Support -- New Philosophy Concentration

Dear Jeffrey,

After consulting with Kenro and the relevant faculty in SOLS, we all agree there will be no negative impact to SOLS. They have been in communication with Cheshire Calhoun in SHPRS and are in favor of this new concentration proposal. Therefore we support the SHPRS proposed Philosophy major concentration in Science, Nature, and Mind.

Best,
Nancy

From: Jeffrey Cohen (Dean)
Sent: Thursday, September 19, 2019 3:39 PM
To: Nancy Gonzales <nancy.gonzales@asu.edu>
Subject: Re: SOLS Statement of Support -- New Philosophy Concentration

I brought it up with Jane over lunch in the spring and asked Philosophy to chat with her as well.

Jeffrey J Cohen
Dean of Humanities
The College of Liberal Arts and Sciences at Arizona State University

From: Nancy Gonzales <nancy.gonzales@asu.edu>
Date: Thursday, September 19, 2019 at 3:31 PM
To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>
Subject: Re: SOLS Statement of Support -- New Philosophy Concentration

Hi Jeffrey

I will speak with relevant stakeholders to prepare a response. I am curious if this was discussed with faculty in SOLS previously. I thought they were planning to do so early on.

Thanks
Nancy

Nancy A. Gonzales
Dean of Natural Sciences
Foundation Professor of Psychology
The College of Liberal Arts and Sciences
Arizona State University

On Sep 19, 2019, at 3:22 PM, Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu> wrote:

Dear Nancy,

I want to ensure that we follow the new process on this request, and it is therefore being made from dean to dean rather than (as it used to be) from unit to unit (as Fred Corey announced needs to be done from now on at the Deans Retreat in Sedona).

SHPRS is requesting a Statement of Collaboration and Impact for the new Philosophy major concentration in *Science, Nature, and Mind*. Would you please provide through relevant stakeholders a statement describing the opportunities for cross-university collaboration and optimization presented by this new program? How will the new program provide opportunities or areas for growth within the university? In what areas do you anticipate that there may be duplication of efforts or negative impact on your college? If you would also include a statement of support (or not) for the proposal we would be grateful.

I am happy to talk more if useful.

All the best,
Jeffrey

Jeffrey J Cohen
Dean of Humanities
The College of Liberal Arts and Sciences at Arizona State University

From: Richard Amesbury <Richard.Amesbury@asu.edu>

Date: Tuesday, September 17, 2019 at 8:44 AM

To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>

Cc: Cheshire Calhoun <Cheshire.Calhoun@asu.edu>, Marissa Timmerman <Marissa.R.Timmerman@asu.edu>

Subject: SOLS Statement of Support -- New Philosophy Concentration

Dear Jeffrey,

The School of Historical, Philosophical and Religious Studies is proposing a new Philosophy major concentration – *Science, Nature, and Mind*. I include the attached draft proposal document and below a short statement from our Philosophy Faculty Head – Cheshire Calhoun – with an overview of this new concentration for the undergraduate Philosophy degree.

We are enthusiastically proposing a new concentration in the Philosophy major and hope you will support it. This concentration is designed for students who have a strong interest in the natural sciences, social sciences, technology, and sustainability. It allows students to focus on the conduct of science, the nature of mind (including artificial intelligence, animal minds, and knowledge processes), and work related to the natural world (including sustainability environmental philosophy, and philosophy of technology). While the core requirements include courses on philosophy of science and philosophy of mind, students also elect courses from an interdisciplinary list of related courses that focus on science, nature and mind. We think this new concentration will make a great second major for many students, and a sole major for philosophically inclined students who have a strong interest in natural and social sciences and who might have minors in those areas.

Cheshire Calhoun
Chair, APA Board of Officers
CLAS Trustee Professor of Philosophy & Faculty Head
School of Historical, Philosophical and Religious Studies
Arizona State University
PO. Box 874302
Tempe, AZ 85287-4302

We would like to solicit a statement of support from the School of Life Sciences. Would you please forward this request the relevant parties via Dean Gonzales?

Many thanks,
Richard

Richard Amesbury
Director, School of Historical, Philosophical & Religious Studies
Professor of Religious Studies

Arizona State University

<Philosophy BA concentration Science Nature and Mind DRAFT Proposal 04-29-19.pdf>

Marissa Timmerman

From: Richard Amesbury
Sent: Saturday, September 14, 2019 1:24 PM
To: Cheshire Calhoun
Cc: Marissa Timmerman; Becky Tsang
Subject: Fwd: CISA Statement of Support - New Philosophy Concentration

Follow Up Flag: Follow up
Flag Status: Flagged

Dear Cheshire,

Please see below for Duane Roen's response to Philosophy's request for a letter of support.

Richard

Richard Amesbury
Director, School of Historical, Philosophical and Religious Studies
Professor of Religious Studies
Arizona State University

From: Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu>
Sent: Saturday, September 14, 2019 4:10 PM
To: Richard Amesbury
Subject: FW: CISA Statement of Support - New Philosophy Concentration

Richard, I trust that you'll convey the letter of support to the proper people in your unit. Please note that moving forward these need to be requested dean to dean – and the request to me should come through you as director.

Jeffrey

Jeffrey J Cohen
Dean of Humanities
The College of Liberal Arts and Sciences at Arizona State University

From: "Duane Roen (Dean)" <Duane.Roen@asu.edu>
Date: Saturday, September 14, 2019 at 11:23 AM

To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>

Cc: Paul LePore <Paul.Lepore@asu.edu>, Patrick Kenney <pkenney@asu.edu>, Richard Amesbury <Richard.Amesbury@asu.edu>, Frederick Corey <FREDERICK.COREY@asu.edu>

Subject: RE: CISA Statement of Support - New Philosophy Concentration

Jeffrey,

Thank you for the request for a statement of collaboration and impact. I have discussed the proposal with Andy Mara, faculty head for Interdisciplinary Humanities and Communication at the Polytechnic campus. CISA is happy to support the proposal for a major concentration in Science, Nature, and Mind in SHPRS. As Andy puts it, "This concentration looks relevant, is thoughtful, and would even benefit our college. It's sort of the trifecta of what I look for."

Please let me know if there is anything else that we can do to help.

Best,

Duane

Duane Roen

Vice Provost, Polytechnic campus

Dean, College of Integrative Sciences and Arts

Arizona State University

Mail Code: 2780

7271 E Sonoran Arroyo Mall

Mesa, AZ 85212-6415

P: 480-727-6513

From: Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu>

Sent: Saturday, September 14, 2019 10:27 AM

To: Duane Roen (Dean) <Duane.Roen@asu.edu>

Cc: Paul LePore <Paul.Lepore@asu.edu>; Patrick Kenney <pkenney@asu.edu>; Richard Amesbury <Richard.Amesbury@asu.edu>; Frederick Corey <FREDERICK.COREY@asu.edu>

Subject: FW: CISA Statement of Support - New Philosophy Concentration

Dear Duane,

I want to ensure that we follow the new process on this request, and it is therefore being made from dean to dean rather than (as it used to be) from unit to unit.

The College of Liberal Arts and Sciences is requesting a Statement of Collaboration and Impact for the new Philosophy major concentration in *Science, Nature, and Mind* in SHPRS. Would you please provide through any relevant stakeholders a statement describing the opportunities for cross-university collaboration and optimization presented by this new program? How will the new program provide opportunities or areas for growth within the university? In what areas do you anticipate that there may be duplication of efforts or negative impact on your college? If you would also include a statement of support (or not) for the proposal we would be grateful.

I am happy to talk more if useful.

All the best,

Jeffrey

Jeffrey J Cohen

Dean of Humanities

The College of Liberal Arts and Sciences at Arizona State University

From: Marissa Timmerman

Sent: Friday, September 13, 2019 3:27 PM

To: Irene Rodriguez <Irene.Rodriguez@asu.edu>

Cc: Cheshire Calhoun <Cheshire.Calhoun@asu.edu>

Subject: CISA Statement of Support - New Philosophy Concentration

Irene,

Good afternoon! I hope this message finds you well. The School of Historical, Philosophical and Religious Studies is proposing a new Philosophy major concentration –*Science, Nature, and Mind*. I include the attached draft proposal document and below a short statement from our Philosophy Faculty Head – Cheshire Calhoun – with an overview of this new concentration for the undergraduate Philosophy degree.

We are enthusiastically proposing a new concentration in the Philosophy major and hope you will support it. This concentration is designed for students who have a strong interest in the natural sciences, social sciences, technology, and sustainability. It allows students to focus on the conduct of science, the nature of mind

(including artificial intelligence, animal minds, and knowledge processes), and work related to the natural world (including sustainability environmental philosophy, and philosophy of technology). While the core requirements include courses on philosophy of science and philosophy of mind, students also elect courses from an interdisciplinary list of related courses that focus on science, nature and mind. We think this new concentration will make a great second major for many students, and a sole major for philosophically inclined students who have a strong interest in natural and social sciences and who might have minors in those areas.

Cheshire Calhoun

Chair, APA Board of Officers

CLAS Trustee Professor of Philosophy & Faculty Head

School of Historical, Philosophical and Religious Studies

Arizona State University

PO. Box 874302

Tempe, AZ 85287-4302

Could you please route this message to the individual who can provide a statement of support on behalf of the College of Integrative Sciences & Arts?

Many thanks!

Marissa

--

Marissa R. Timmerman

Manager, Academic Support

Arizona State University

School of Historical, Philosophical, and Religious Studies

The College of Liberal Arts and Sciences

P.O. Box 874302 | Tempe, AZ 85287-4302

Marissa Timmerman

From: Richard Amesbury
Sent: Thursday, September 19, 2019 3:26 PM
To: Cheshire Calhoun; Marissa Timmerman
Subject: Fwd: WEST Statement of Support -- New Philosophy Concentration

Follow Up Flag: Follow up
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Hi Cheshire,

Please see the chain below.

Richard

Richard Amesbury
Director, School of Historical, Philosophical and Religious Studies
Professor of Religious Studies
Arizona State University

From: Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu>
Sent: Thursday, September 19, 2019 3:20:18 PM
To: Richard Amesbury <Richard.Amesbury@asu.edu>
Subject: FW: WEST Statement of Support -- New Philosophy Concentration

Jeffrey J Cohen
Dean of Humanities
The College of Liberal Arts and Sciences at Arizona State University

From: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Date: Thursday, September 19, 2019 at 3:01 PM
To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>
Cc: "Todd Sandrin (DEAN)" <Todd.Sandrin@asu.edu>
Subject: FW: WEST Statement of Support -- New Philosophy Concentration

Dear Dean Cohen:

We are happy to be able to provide a statement of support for the new Philosophy Concentration. Please see below for Dr. Mendoza's request that a couple of our courses be considered for inclusion. Thank you so much, Patty

Patricia Friedrich, PhD
Associate Dean of Academic Programs and Faculty Affairs,
New College of Interdisciplinary Arts and Sciences
Professor of Linguistics/Rhetoric and Composition,
School of Humanities, Arts, and Cultural Studies
Arizona State University P. O. Box 37100

4701 W. Thunderbird Rd. Mail Code 3051
Phoenix, AZ, USA 85069-7100
voice 602 543-6046

From: Louis Mendoza <Louis.G.Mendoza@asu.edu>
Date: Thursday, September 19, 2019 at 2:25 PM
To: Patricia Friedrich <Patricia.Friedrich@asu.edu>
Subject: FW: WEST Statement of Support -- New Philosophy Concentration

Dear Associate Dean Friedrich,

We have no significant concerns with the proposed certificate by SHPRS. Faculty in PRS would like the inclusion of relevant courses they offer to be considered, especially Evolution of Ideas and Eco-Community Ethics.

Louis

--
Dr. Louis Mendoza, Director

School of Humanities, Arts, and Cultural Studies
New College of Interdisciplinary Arts and Sciences
4701 W. Thunderbird Rd., FAB N201
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P.O. Box 37100, MC 2151, Phoenix AZ 85069-7100
Arizona State University
Office: 602-543-6242
<https://newcollege.asu.edu/humanities-arts-cultural-studies-degree-programs>
<https://louismendoza.academia.edu/>

From: Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu>
Sent: Wednesday, September 18, 2019 6:45:09 AM
To: Todd Sandrin (DEAN) <Todd.Sandrin@asu.edu>
Subject: FW: WEST Statement of Support -- New Philosophy Concentration

Dear Todd,

I want to ensure that we follow the new process on this request, and it is therefore being made from dean to dean rather than (as it used to be) from unit to unit.

The College of Liberal Arts and Sciences is requesting a Statement of Collaboration and Impact for the new Philosophy major concentration in *Science, Nature, and Mind* in SHPRS. Would you please provide through any relevant stakeholders a statement describing the opportunities for cross-university collaboration and optimization presented by this new program? How will the new program provide opportunities or areas for growth within the university? In what areas do you anticipate that there may be duplication of efforts or negative impact on your college? If you would also include a statement of support (or not) for the proposal we would be grateful.

I am happy to talk more if useful.

All the best,
Jeffrey

Jeffrey J Cohen
Dean of Humanities
The College of Liberal Arts and Sciences at Arizona State University

From: Richard Amesbury <Richard.Amesbury@asu.edu>
Date: Tuesday, September 17, 2019 at 8:34 AM
To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>
Cc: Cheshire Calhoun <Cheshire.Calhoun@asu.edu>, Marissa Timmerman <Marissa.R.Timmerman@asu.edu>
Subject: WEST Statement of Support -- New Philosophy Concentration

Dear Jeffrey,

The School of Historical, Philosophical and Religious Studies is proposing a new Philosophy major concentration – *Science, Nature, and Mind*. I include the attached draft proposal document and below a short statement from our Philosophy Faculty Head – Cheshire Calhoun – with an overview of this new concentration for the undergraduate Philosophy degree.

We are enthusiastically proposing a new concentration in the Philosophy major and hope you will support it. This concentration is designed for students who have a strong interest in the natural sciences, social sciences, technology, and sustainability. It allows students to focus on the conduct of science, the nature of mind (including artificial intelligence, animal minds, and knowledge processes), and work related to the natural world (including sustainability environmental philosophy, and philosophy of technology). While the core requirements include courses on philosophy of science and philosophy of mind, students also elect courses from an interdisciplinary list of related courses that focus on science, nature and mind. We think this new concentration will make a great second major for many students, and a sole major for philosophically inclined students who have a strong interest in natural and social sciences and who might have minors in those areas.

Cheshire Calhoun
Chair, APA Board of Officers
CLAS Trustee Professor of Philosophy & Faculty Head
School of Historical, Philosophical and Religious Studies
Arizona State University
PO. Box 874302
Tempe, AZ 85287-4302

We would like to solicit a statement of support from the Division of Humanities, Arts & Cultural Studies in New College. Would you please forward this request the relevant parties via Dean Sandrin?

Many thanks,
Richard

Richard Amesbury
Director, School of Historical, Philosophical & Religious Studies
Professor of Religious Studies
Arizona State University

Marissa Timmerman

From: Richard Amesbury
Sent: Thursday, September 17, 2020 1:31 PM
To: Cheshire Calhoun; Manisha Master; Marissa Timmerman
Subject: FW: Statement of Support -- New Philosophy Concentration

Letter of support from College of Global Futures (which houses both SFIS and SOS):

From: Christopher Boone <Christopher.G.Boone@asu.edu>
Date: Thursday, September 17, 2020 at 1:08 PM
To: "Jeffrey Cohen (Dean)" <Jeffrey.J.Cohen@asu.edu>
Cc: Richard Amesbury <Richard.Amesbury@asu.edu>
Subject: RE: Statement of Support -- New Philosophy Concentration

Hi Jeffrey,

The College of Global Futures is happy to support the proposal. I reached out to my ADs and to school leadership in the college. Here is a summary from them.

The proposed Philosophy major concentration in Science, Nature, and Mind in SHPRS is complementary to programs offered within the College of Global Futures, and does not overlap in ways that would substantially impact the college's programs. Given the emphasis on and interest in responsible and ethical actions with respect to the environment, society, innovation, and the planet more broadly within the College of Global Futures, there are a number of potential synergies between our programs and the proposed concentration that have the potential to further support our students and enhance their experience at ASU where they have a specific interest in the intersection between philosophy, science and nature. This includes considerations of future courses and potential cross-listings that bridge programs in this area.

Below are suggestions for electives within the concentration:

FIS 305 Ways of Knowing
FIS 335 Designing Knowledge
SOS 310 Equity, Justice and Sustainability

Christopher Boone
Dean, College of Global Futures
Professor, School of Sustainability



<https://collegeofglobalfutures.asu.edu/>
PO Box 875502, Tempe, AZ 85287-5502
Executive Assistant: Lorraine.Protocollo@asu.edu
480-965-2236

The College of Global Futures embraces ASU's mission as being a comprehensive public research university, measured not by whom it excludes, but rather by whom it includes and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves. We support and foster a culture of inclusiveness, tolerance, and respect that promotes equal opportunity and diversity among faculty, staff, and students and through our engagement with diverse communities within and beyond the University.

From: Jeffrey Cohen (Dean) <Jeffrey.J.Cohen@asu.edu>
Sent: Monday, September 14, 2020 5:22 PM
To: Christopher Boone <Christopher.G.Boone@asu.edu>
Cc: Richard Amesbury <Richard.Amesbury@asu.edu>
Subject: Statement of Support -- New Philosophy Concentration

Dear Chris,

I hope you're doing well.

The College of Liberal Arts and Sciences is requesting a Statement of Collaboration and Impact for a new Philosophy major concentration in *Science, Nature, and Mind* in SHPRS. Would you please provide through any relevant stakeholders a statement describing the opportunities for cross-university collaboration and optimization presented by this new program? How will the new program provide opportunities or areas for growth within the university? In what areas do you anticipate that there may be duplication of efforts or negative impact on the College of Global Futures? If you would also include a statement of support (or not) for the proposal we would be grateful.

I am happy to talk more if that would be useful.

All the best,
Jeffrey

Jeffrey J Cohen

Dean of Humanities & Professor of English
College Of Liberal Arts & Sciences

Arizona State University

[Support](#) the Humanities | [Study](#) the Humanities

From: Richard Amesbury <Richard.Amesbury@asu.edu>

Dear Jeffrey,

The School of Historical, Philosophical and Religious Studies is proposing a new Philosophy major concentration – *Science, Nature, and Mind*. I include the attached draft proposal document and below a short statement from our Philosophy Faculty Head – Cheshire Calhoun – with an overview of this new concentration for the undergraduate Philosophy degree.

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Cheshire Calhoun
Chair, APA Board of Officers
CLAS Trustee Professor of Philosophy & Faculty Head
School of Historical, Philosophical and Religious Studies
Arizona State University
PO. Box 874302
Tempe, AZ 85287-4302

We would like to solicit a statement of support from the College of Global Futures. Would you please forward this request the relevant parties via Dean Boone?

Many thanks,
Richard

Richard Amesbury
Director, School of Historical, Philosophical & Religious Studies
Professor of Religious Studies
Arizona State University