

BA IN PHILOSOPHY (SCIENCE, REASON AND VALUES)

Units required for Major: 42
Total units required for BA: 120



Program Description

The concentration in Science, Reason and Values is designed for students who are interested in the philosophical, rational and moral foundations of science and its applications. This concentration provides an excellent double major opportunity for science students interested in broadening and deepening their understanding of the normative elements of their chosen field. It is also a good choice for philosophy students who are interested in graduate study in the philosophy of science.

The concentration focuses on providing students with a deep understanding of the nature of scientific rationality. Topics include scientific explanation, the nature of scientific evidence, the process of confirming and revising our theories and beliefs, the problem of decision under conditions of uncertainty, and the scientific study of social phenomena. The philosophy of science also explores traditional philosophical questions as they arise in the context of scientific inquiry. Some of these are: Do we really know that the theoretical entities of science exist? What is the difference between science and pseudo-science? Do different sciences give us fundamentally different ways of understanding the world? Is science converging on truth or will it always undergo revolutionary changes that reject widely accepted theories of the past? Does scientific inquiry have intrinsic value or are there questions that scientists should not ask?

Note: Philosophy majors must fulfill the GE Writing Intensive "supervenient requirement" with courses **in the major, only**.

Program Requirements

Code	Title	Units
LOWER DIVISION COURSES (5 Units)		
PHIL 89	Philosophical Methods (Philosophical Methods)	2
PHIL 60	Deductive Logic I ¹	3
UPPER DIVISION CORE COURSES (19 Units)		
PHIL 112	History Of Ethics 	3
PHIL 127	History of Ancient Philosophy	3
PHIL 128	History of Modern Philosophy	3
PHIL 180	Knowledge and Understanding	3
PHIL 181	Metaphysics	3
PHIL 182	Ethical Theory (Ethical Theory)	3
PHIL 189	Senior Seminar in Philosophy	1
SCIENCE, REASON, AND VALUES CONCENTRATION (18 Units)		
<i>SCIENCE, REASON, AND VALUES CORE ELECTIVES</i>		
Select 3 of the following 4 courses.		9
PHIL 105	Science and Human Values 	
PHIL 125	Philosophy Of Science ¹	
PHIL 156	Philosophy of the Social Sciences	
PHIL 183	Rationality	

Additional Electives ²


Select three courses from the Elective List for this concentration not taken to satisfy the above. 9

Total Units 42

¹ Course also satisfies General Education (GE)/Graduation Requirement.

² See Elective List below for Department approved electives for this concentration.

Elective List

Code	Title	Units
PHIL 61	Inductive Logic I ¹	3
PHIL 104	Bioethics ¹	3
PHIL 105	Science and Human Values 	3
PHIL 106	Philosophy of Medicine	3
PHIL 125	Philosophy Of Science ¹	3
PHIL 153	Philosophy Of Mind	3
PHIL 154	Philosophy Of Language	3
PHIL 156	Philosophy of the Social Sciences	3
PHIL 160	Deductive Logic II	3
PHIL 183	Rationality	3
PHIL 190	Selected Philosophers	3
PHIL 192B	Topics in Bioethics	3
PHIL 192E	Topics in Epistemology	3
PHIL 192F	Topics in Ethics	3
PHIL 192L	Topics in Philosophy Language	3
PHIL 192M	Topics in Philosophy of Mind	3
PHIL 192O	Topics in Contemporary Metaphysics	3
PHIL 192P	Topics in Social and Political Philosophy	3
PHIL 192R	Topics in Philosophy of Religion	3
PHIL 192S	Topics in Philosophy of Science	3
PHIL 192T	Topics in Philosophy of Social Science	3
PHIL 195	Philosophy Internship ²	1 - 3

¹ Course also satisfies General Education (GE)/Graduation Requirement.

² If taken for less than 3 units, must be repeated until 3 units are achieved.

General Education Requirements ¹

Code	Title	Units
Area A: Basic Subjects (6-9 Units)		
A1	Oral Communication	3
A2	Written Communication	3
A3	Critical Thinking ²	0 - 3
Area B: Physical Universe and Its Life Forms (13 Units)		
B1	Physical Science	3
B2	Life Forms	3
B3	Lab (Note: Lab experience to be taken with one of the following: B1, B2 or B5)	1
B4	Math Concepts	3
B5	Additional Course (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements. ³	3

Area C: Arts and Humanities (6-12 Units)

C1 - Arts	3
C2 - Humanities ²	0 - 3
C1/C2 - Area C Course	3
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements. ⁴	0 - 3
Area D: The Individual and Society (6-9 Units)	
Area D Course	3
Area D Course	3
Area D Course - Take upper-division course to complete Area & upper division requirements. ⁴	0 - 3
Area E: Understanding Personal Development (3 Units)	
Area E Course	3
Area F: Ethnic Studies (3 Units)	
Area F Course	3
Total Units	37-49

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (<https://catalog.csus.edu/colleges/academic-affairs/general-education/>).

Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (<http://www.csus.edu/acad>), by phone (916) 278-1000, or email (advising@csus.edu).

² Department offers students a "select from the following" option:

- If student chooses to take PHIL 4, they will meet Area A3.
- If student chooses to take PHIL 2, PHIL 6, or PHIL 26, they will meet Area C2.

³ Required in Major; also satisfies GE.

⁴ Department offers students a "select from the following" option:

- If student chooses to take PHIL 102, PHIL 112, PHIL 115, PHIL 117, PHIL 122, PHIL 131, PHIL 136, PHIL 145A, or PHIL 145B, they will meet upper division Area C.
- If student chooses to take PHIL 101, PHIL 103, PHIL 104, or PHIL 105, they will meet upper division Area D.

Graduation Requirements ¹

Code	Title	Units
Graduation Requirements (required by CSU) (6-9 Units)		
American Institutions: U.S. History		3
American Institutions: U.S. Constitution & CA Government		3
Writing Intensive (WI) ²		0 - 3
Graduation Requirements (required by Sacramento State) (12 Units)		
English Composition II		3
Race and Ethnicity in American Society (RE)		3
Foreign Language Proficiency Requirement ³		6

¹ To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information,

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Note: There is no way to list all possible overlaps so please consult with a professional advisor. The Academic Advising Center can be visited online (<http://www.csus.edu/acad>), by phone (916) 278-1000, or email (advising@csus.edu).


² Department offers students a "select from the following" option:

- If student chooses to take PHIL 101, PHIL 105, PHIL 112, PHIL 115, PHIL 117, PHIL 145A, or PHIL 145B, they will meet the Writing Intensive (WI) graduation requirement.

³ If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). "C- or better required." The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: <https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html>

The following roadmaps are sample planning resources. Please consult your academic advisor and Academic Catalog for graduation requirements as you develop your individualized academic plan.

Philosophy (Science, Reason, and Values), BA: 4-Year Roadmap

Course	Title	Units
Year 1		
First Semester		
PHIL 21	First Year Seminar: Becoming an Educated Person	3
GE Area 1B - Critical Thinking (PHIL 4 recommended) ²		3
GE Area 1C - Oral Communication ²		3
GE Area 5B - Biological Science ²		3
GR American Institutions (US History) ²		3
Units		15
Second Semester		
GE Area 1A - English Composition ²		3
GE Area 2 - Mathematical Concepts & Quantitative Reasoning (PHIL 61 recommended) ²		3
GE Area 3B - Humanities (PHIL 2 recommended) ²		3
GR American Institutions (GOVT) ²		3
Elective of Choice		3
Units		15
Year 2		
First Semester		
PHIL 89	Philosophical Methods	2
GE Area 5A - Physical Science ²		3
GE Area 5C - Laboratory ²		1
Second Semester Composition ²		3
Elective of Choice		3
Elective of Choice		3
Units		15
Second Semester		
PHIL 60	Deductive Logic I	3
GE Area 3A - Arts ²		3
GE Area 4 - Social & Behavioral Sciences ²		3
GE Area 6 - Ethnic Studies ²		3
Elective of Choice		3
Units		15
Year 3		
First Semester		
PHIL 112	History Of Ethics 	3
PHIL 127	History of Ancient Philosophy	3

PHIL 128	History of Modern Philosophy	3
Upper Division GE Area 3 - Arts or Humanities ²		3
Foreign Language Semester 1 ²		4
Units		16
Second Semester		
PHIL 105	Science and Human Values ✍	3
PHIL 125	Philosophy Of Science	3
PHIL 156	Philosophy of the Social Sciences	3
PHIL Science, Reason, and Values Elective ³		3
Foreign Language Semester 2 ²		4
Units		16
Year 4		
First Semester		
PHIL 180	Knowledge and Understanding	3
PHIL 183	Rationality	3
PHIL Science, Reason, and Values Elective ³		3
Elective of Choice		3
Elective of Choice		3
Units		15
Second Semester		
PHIL 181	Metaphysics	3
PHIL 182	Ethical Theory	3
PHIL 189	Senior Seminar in Philosophy	1
PHIL Science, Reason, and Values Elective ³		3
Elective of Choice		3
Units		13
Total Units		120

GR American Institutions (US History) ²	3
Units	13
Total Units	60

1. Any course not completed in the first semester should be taken in the second or a later semester.

2. Please see General Education/Graduation Requirement **course options** (<https://catalog.csus.edu/colleges/academic-affairs/general-education/>).

3. Please see an academic advisor for elective options.

Philosophy (Science, Reason, and Values), BA: 2-Year Roadmap

Course	Title	Units
Year 1		
First Semester		
PHIL 112	History Of Ethics ✍	3
PHIL 127	History of Ancient Philosophy	3
PHIL 128	History of Modern Philosophy	3
Upper Division GE Area 3 - Arts or Humanities ²		3
Foreign Language Semester 1 ²		4
Units		16
Second Semester		
PHIL 105	Science and Human Values ✍	3
PHIL 125	Philosophy Of Science	3
PHIL 156	Philosophy of the Social Sciences	3
PHIL Science, Reason, and Values Elective ³		3
Foreign Language Semester 2 ²		4
Units		16
Year 2		
First Semester		
PHIL 180	Knowledge and Understanding	3
PHIL 183	Rationality	3
PHIL Science, Reason, and Values Elective ³		3
GR American Institutions (GOVT) ²		3
Elective of Choice		3
Units		15
Second Semester		
PHIL 181	Metaphysics	3
PHIL 182	Ethical Theory	3
PHIL 189	Senior Seminar in Philosophy	1
PHIL Science, Reason, and Values Elective ³		3