CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

ACADEMIC SENATE

ACADEMIC PROGRAMS COMMITTEE

REPORT TO

THE ACADEMIC SENATE

AP-021-178

Change the Sponsoring Unit to CLASS for the Science, Technology, and Society Major and Minor

Academic Programs Committee	Date:	03/16/2018
Executive Committee Received and Forwarded	Date:	04/02/2018
Academic Senate	Date:	04/11/2018 <u>First Reading</u> 05/02/2018 <u>Second Reading</u>

BACKGROUND:

Since the implementation of CPP's Science, Technology, and Society (STS) Major and Minor in 2009, the Philosophy Department has been the administrator of the STS programs. At the same time, the STS programs have been University Interdisciplinary Programs, with their sponsoring unit being the University. Having the University as the sponsoring unit has been reasonable in many ways, as STS is an interdisciplinary area of research and teaching encompasses the whole University. However, with the University as sponsoring unit, the STS Programs have had neither the budgetary basis for growth nor proper oversight with respect to advising and acknowledging student success. Consequently, the college proposes the sponsoring unit of the STS programs be changed to the College of Letters Arts and Social Science (CLASS) and housed in the Philosophy Department.

The change will correct the budgetary and oversight issues and help to promote the growth of the program and provide better advising to the students. The change will not change the terms established in the STS charter document approved Nov. 2017, except that the sponsoring unit will be change from university to CLASS (2a) and that FTEs associated with STS prefix will be allocated to the Philosophy Department (3e). FTEs with other course prefixes in the STS programs will remain in the departments with these prefixes. If an instructor from a department other than Philosophy were to teach an STS prefix course, that other department would be reimbursed.

RESOURCES CONSULTED:
Associate Deans of CLASS and Science
Chair, Department of Philosophy

DISCUSSION:
As indicated in the referral, the philosophy department has been the administrator of the program since the program started in 2009 and the change of the sponsoring unit to CLASS will resolve several issues and improve student advising and to help the program grow. There is no change to the nature of the chartered interdisciplinary programs and no impact on departments that teach courses for the STS programs.

RECOMMENDATION:
The AP committee recommends approval change the sponsoring unit to CLASS for the Science, Technology, and Society Major and Minor.

Plan (Major) __Science, Technology, and Society, B.A.__

Subplan/Option _____

Catalog Year   __2017-2018__

Minimum Units Required   __180__

Name   _____

Student ID   _____

Required Core Courses

IME 402 - Ethical Considerations in Technology and Applied Science (4)
HST 408 - History of American Science and Technology (4)
PHL 483 - Philosophy of Science (4)
SOC 440 - Technology and Society (4)
STS 201 - Introduction to Science, Technology, and Society (4)
STS 461 - Science, Technology, and Society Capstone Seminar (4)
STS 462 - Science, Technology, and Society Senior Project (3)
STS 463 - Science, Technology, and Society Senior Project (3)

Total Units 30

Elective Core Courses

See Elective Core Courses list on the back of the Curriculum Sheet.

Total Units 19-20

Required Support Courses

PHL 218 - Logic and Computing (4) (B4)

Total Units 4

Elective Support Courses

Select 1 course from the following: 3-4 units
STA 120 - Statistics with Applications (4) (B4)
STA 309 - Statistical Methods in Engineering and the Physical Sciences (3)

Select 1 course from the following: 4 units
IGE 222 - Ways of Doing: Technology and Human Purpose (4)
SOC 201 - Principles of Sociology I (4) (D3)

Total Units 7-8

Other Requirements

Qualifying Foundation in Science and Technology: 28-64 units
A Qualifying Foundation in Science and Technology (i.e. a Major or Minor in Biological Sciences, Chemistry, Computer Science, Geological Sciences, Kinesiology and Health Promotion, Mathematics; Physics and Astronomy, or Statistics; a Major in Aerospace Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Industrial Engineering, Manufacturing Engineering, Mechanical Engineering, Engineering Technology, Construction Engineering Technology, Electronics and Computer Engineering Technology; a Minor in Energy Engineering , Illumination Engineering, Materials Engineering, or Ocean Engineering; a Major or Minor in Computer Information Systems; a Major or Minor in Animal and Veterinary Sciences, Food Science and Technology, Human Nutrition and Food Sciences, or Plant Sciences; the Environmental Health Specialist Minor; the Geographical Information Systems Minor; the Physiology Minor; or the Geography Major, with the Geographical Information Systems Option.)

Total Units 28-64

Unrestricted Electives

Select a sufficient number of courses so that the total from "Elective Core", "Required Support", "Elective Support", "Other Requirements", "GE", and "Unrestricted Electives" is at least 150 units.

Total Units 0-32

Interdisciplinary General Education

See Interdisciplinary General education Courses on the back of the Curriculum Sheet.

Total Units 32

General Education Requirements

Area A Communication & Critical Thinking (12 units)
1. Oral Communication
2. Written Communication
3. Critical Thinking

Area B Mathematics & Natural Sciences (16 units)
1. Physical Science
2. Biological Science
3. Laboratory Activity
4. Math/Quantitative Reasoning
5. Science & Technology Synthesis

Area C Humanities (16 units)
1. Visual and Performing Arts
2. Philosophy and Civilization
3. Literature and Foreign Language
4. Humanities Synthesis

Area D Social Sciences (20 units)
1. U.S. History, Constitution, American Ideals
   a. United States History
   b. Introduction to American Government
2. History, Economics and Political Science
3. Sociology, Anthropology, Ethnic & Gender Studies
4. Social Science Synthesis

Area E Lifelong Understanding & Self Development (4 units)

Total Units 68

American Institutions Courses that satisfy this requirement may also satisfy GE Area D1	8

American Cultural Perspectives Requirement Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	4

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.

Elective Core Courses

History of Science & Technology
Select 1 course from the following: 4 units
ANT 380 - History of Anthropological Theory (4)
CHM 306 - History and Philosophy of Chemistry (4)
HST 420 - Islamic Science in World History (4)
HST 421 - The Scientific Revolution (4)
HST 423 - Modern Science in World History (4)
HST 432 - Technology in World History (4)
MAT 306 - History of Mathematics (4)
MU 310 - History of Technology in Music (4)
PHY 306 - History of Physics (4)
PSY 410 - History and Systems (4)

Social and Cultural Studies of Science & Technology
Select 2 courses from the following: 8 units
ANT 350 - Environment, Technology and Culture (4)
ANT 352 - Development Anthropology (4)

EGR 475 - Beyond Curie: Women in Math, Science, and Engineering (4)
   cross-listed as
SCI 475 - Beyond Curie: Women in Math, Science, and Engineering (4)

ENG 222 - The Literature of Science Fiction (4)
EWS 425 - Gender, Identity and Technology (4)
GEO 330/330A - Environmental Geography (3/1)
IGE 320 - Visions of Science and Technology (4)
PHY 301 - Energy and Society (4)
PHY 302 - Physics of Everyday Experience (4)
PLT 311 - Plants and Civilization (4)
RS 301 - Life Support Processes (4)
RS 302 - Global Regenerative Systems (4)
RS 303 - Organization for Regenerative Practices (4)
RS 414/414L - Current Applications in Regenerative Studies (3/1)
RS 450 - Sustainable Communities (4)
SOC 340 - Social Change (4)

Ethics and Policy of Science and Technology
Select 2 courses from the following: 7-8 units
ABM 313 - Politics of Food and Agriculture (3)
AG 401 - Ethical Issues in Food, Agricultural, and Apparel Industries (4)
BIO 300 - Genetics and Human Issues (4)
BIO 304 - Environment and Society (4)
CHM 210 - Chemistry in Life, Civilization and the World (4)
CS 375 - Computers and Society (4)
EC 429 - Seminar in Natural Resource Economics (4)
EC 435 - Seminar in Environmental Economics (4)
EC 436 - Air Resource Management (4)
EC 438 - Waste Management (4)
EC 439 - Water Resource Management (4)
EC 441 - Industry Studies (4)
EGR 445 - Role of Design Professionals in Society (4)

FN 445 - Agriculture, Nutrition and International Development (4) cross-listed as
IA 445 - Agriculture, Nutrition and International Development (4)

Continue next column

Elective Core Courses Con't.

FST 325 - Food Safety and Current Issues (4)
GEO 413 - Environmental Law (4)
GSC 110 - Water in a Changing World (4)
GSC 320 - Studies of a Blue Planet (4)
GSC 350 - Natural Disasters (4)
IME 403 - Asset Allocation in Technical Decision Making (4)
PHL 430 - Ethics, Environment, and Society (4)
PHL 433 - Bioethics (4)
URP 302 - Understanding Rationality Through Urban Planning (4)
URP 334/334A - Planning Policy Analysis (2/2)
URP 475 - Cities in a Global Economy (4)
URP 487 - Environmental Factors in Regional Planning (4)

Total Units 19-20

Interdisciplinary General Education

An alternate pattern for partial fulfillment of GE Areas A, C, D, and E available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. Students must be exempt from or score at least 147 on the EPT to qualify for IGE. Please refer to the University Catalog General Education Program section for additional information.

How IGE fulfills General Education Requirements:

Year	Completion of IGE Courses	Satisfies GE Requirements
Freshman	IGE 120, IGE 121, IGE 122	A2 as well as any 2 courses from C1-C3
Sophomore	IGE 220, IGE 221, IGE 222	D1 (8 units) and D3
Junior	IGE 223, IGE 224	D2 and Area E

Total Units 32