

CALIFORNIA POLYTECHNIC STATE UNIVERSITY  
San Luis Obispo, California 93407  
ACADEMIC SENATE

FILE COPY

Executive Committee  
Academic Senate Agenda  
Tuesday, October 10, 1989  
UU 220 3:00-5:00 p.m.

<u>Member</u>	<u>Dept</u>	<u>Member</u>	<u>Dept</u>
Andrews, Charles	Acctg	Murphy, James (C)	IndTech
Borland, James	ConstMgt	Murphy, Paul	Math
Boynton, William	Acctg	Smith, Terry	SoilSci
Dobb, Linda	Library	Vilkitis, James (Secty)	NRM
Freberg, Laura	Psy/HD	Weatherby, Joseph	PoliSci
Gooden, Reg	PoliSci	Wilson, Malcolm	VPAA
Kersten, Timothy	Economics	Zeuschner, Raymond	SpcCom
Lutrin, Sam (VC)	StLf&Actvs	Copies: Warren Baker	
Moustafa, Safwat	MechEngr	William Rife	
		Howard West	

- I. Minutes: Approval of the September 19, 1989 Executive Committee minutes (pp. 2-6).
- II. Communication(s) and Announcement(s):
- III. Reports:
- A. President's Office
  - B. Vice President for Academic Affairs' Office
  - C. Statewide Senators
  - D. John Rogers, Chair of the Academic Senate Budget Committee
  - E. Tina Bailey, Chair of the Academic Senate Curriculum Committee
  - F. Paul Murphy, Chair of the Academic Senate Personnel Policies Committee
- IV. Consent Agenda:
- V. Business Item(s):
- A. Resolution on Policy and Procedure on Changes of Department Names (p. 7).
  - B. Resolution on Experiential Education-Lutrin, Vice Chair of the Academic Senate (pp. 8-9).
  - C. GE&B proposal for AERO 210-Sandlin, Chair of the Aero Engr Department (pp. 10-13).
  - D. General Education and Breadth proposals-Hafemeister, Chair of the GE&B Committee (to be distributed).
  - E. Vacancies:
    - 1. Academic Senate representative for part-time faculty
    - 2. GE&B Area "E" (Physio, Soc, Psy Dev) - one vacancy
    - 3. University Executive Committee (UEC) vacancy (replacement for Lynne Gamble)
    - 4. Committee vacancies:
      - SAED - Instruction, Status of Women
      - SBUS - Research (replacement for Krishnan), Student Affairs
      - SLA - Fairness Board
      - Senate vacancy (replacement for Simmons)
      - Interim appointment of Jim Simmons to DTA Committee
      - SPSE - Const & Byls, Elections, GE&B (replacement for Murphy), Fairness Board (replacement for Fields), Long-Range Planning, Personnel Policies
      - SSM - Status of Women
- VI. Discussion Item(s):
- VII. Adjournment:

9.19.89  
minutes  
removed

Adopted:

ACADEMIC SENATE  
OF  
CALIFORNIA POLYTECHNIC STATE UNIVERSITY  
San Luis Obispo, California

AS- -89/  
RESOLUTION ON  
DEPARTMENT NAME CHANGES

WHEREAS, No uniform policy exists when a request to change the name of a department is made; therefore, be it

RESOLVED: That the following policy and procedure on changes of department names be approved by the Academic Senate of Cal Poly:

1. A department requesting a change of its name will send the request, in writing, to the dean of the school with an explanation of the reasons for the change.
2. The dean will receive a recommendation on the request from the school council, add her/his own recommendation, and send the request with the recommendations to the Vice President for Academic Affairs.
3. The Vice President for Academic Affairs will ask for a recommendation on the proposed name change from the Academic Senate and from the Academic Deans' Council.
4. The Vice President for Academic Affairs will approve or disapprove the proposed name change after considering the recommendations of the school council and the dean of the affected school, the Academic Senate, and the Academic Deans' Council.

Proposed By:  
Academic Senate Executive  
Committee  
Date: October 10, 1989

Adopted:

ACADEMIC SENATE  
OF  
CALIFORNIA POLYTECHNIC STATE UNIVERSITY  
San Luis Obispo, California

Background Statement: In 1986-87, the Academic Senate established the Ad Hoc Committee on Experiential Education to consider development of academic guidelines for credit-bearing activities taught in the "learn by doing" mode.

The committee was chaired by Dr. Dianne Long and included a representative from each school and Professional Consultative Services (PCS), academic administration, Cooperative Education, and Extended Education.

In a May 5, 1987 memo to the Academic Senate Chair, Dr. Long submitted the group's recommendations, defining experiential education and setting forth guidelines for determining credit.

No action has been taken on this report to date.

AS- -89/  
RESOLUTION ON  
EXPERIENTIAL EDUCATION

WHEREAS, Cal Poly prides itself on its "learn by doing" traditions; and

WHEREAS, No university guidelines exist for credit-bearing activities taught in the experiential mode; and

WHEREAS, The Academic Senate's Ad Hoc Committee on Experiential Education developed recommended guidelines and submitted them to the Academic Senate in May of 1987; therefore, be it

RESOLVED: That the Academic Senate approve the attached guidelines for experiential education at Cal Poly.

Proposed By:  
Sam Lutrin, Vice Chair of  
the Academic Senate  
Date: October 10, 1989

**Memorandum**

To : Lloyd Lamouria, Chair  
Academic Senate

Date : May 5, 1987

File No.:

Copies :

From : Dianne Long  
Ad Hoc Committee on Experiential Education

Subject: Guidelines for Experiential Education

The Academic Senate's Ad Hoc Committee on Experiential Education recommends adoption of the following definition and guidelines related to experiential education at Cal Poly. Committee members include Glenn Casey, William Horton, Glenn Irvin, Dianne Long, Sam Lutrin, Ernest Miller, Michael Seiderski, Walter Tryon, Ralph Warten, and advisory members Fred Abitia and Howard Vollmer. Committee members express substantial agreement with this report.

#### DEFINITION OF EXPERIENTIAL EDUCATION

Experiential education refers to learning activities that engage the learner directly in the phenomena being studied. This learning can be in all types of work or service settings outside of formal instruction by undergraduate and graduate students of all ages.

Experiential education may take many different forms: internships, field experiences, cooperative education, practica, cross-cultural and international learning, community and public service, and other kinds of academically monitored, experience-based learning. The experiences may be part-time or full-time, paid or unpaid, and evaluated for credit or not credited.

Credit will be granted by the university for appropriately documented, college-level learning. Academic units will determine the kinds of learning opportunities eligible for academic credit within majors and minors. Experiential Education is subject to the regular guidelines and procedures for instruction including granting of credit and qualifications of faculty and instructional staff.

Prior credit will not be awarded except through CSU established procedures for CLEP (College Level Entry Program) and other advanced placement programs which provide academic credit for work experience prior to university entry. The committee recommends that the university's admissions and evaluations offices implement CSU procedures for advanced placement.

#### GUIDELINES FOR DETERMINING CREDIT

Provision of credit: Students of undergraduate and graduate standing

GENERAL EDUCATION AND BREADTH PROPOSAL

1. PROPOSER'S NAME Russell M.Cummings	2. PROPOSER'S DEPT. Aero Engineering
3. SUBMITTED FOR AREA (include section, and subsection if applicable) F.2	
4. COURSE PREFIX, NUMBER, TITLE, UNITS, DESCRIPTION, ETC. (use catalog format) AERO 210 History of Aviation, 3 units, 3 lectures. The history of the technological innovations which led to modern aviation. Examination of the people and circumstances that contributed to the major breakthroughs in aeronautics and astronautics. Discussion of current events in aviation.	
5. SUBCOMMITTEE RECOMMENDATION AND REMARKS  Approved	
6. GE & B COMMITTEE RECOMMENDATION AND REMARKS  Approved	
7. ACADEMIC SENATE RECOMMENDATION	

# RECEIVED

-11-

SEP 21 1989

AERO/ 4-2-87 Page 4

Academic Senate

## NEW COURSE PROPOSAL

California Polytechnic State University, San Luis Obispo

Department and School AERO/SENG

Date 2/10/87

Prepared by Russell M. Cummings

1. PREFIX / NUMBER / TITLE AERO 210 History of Aviation		2. UNITS 3.0	3. GEB Area F.2	4. GRADING METHOD <u>Regular</u> <u>X</u> <u>C&amp;C</u>
5. COURSE DESCRIPTION (follow catalog format; limit to 40 words)  The history of the technological innovations which led to modern aviation. Examination of the people and circumstances that contributed to the major breakthroughs in aeronautics and astronautics. Discussion of current events in aviation. 3 lectures.				
6. PREREQUISITE: None		7. TITLE FOR CLASS SCHEDULE (maximum of 13 characters) H I S T O R Y O F A V I A T I O N		
8. C/S NUMBER(S) C4	9. TYPE OF COURSE Lec <u>X</u> Act ___ Lab ___ Sem ___ Supv ___		10. MISCELLANEOUS COURSE FEE (MCF form is also needed) None	
11. NUMBER OF SECTIONS ANTICIPATED Fall ___ Winter ___ Spring ___ Summer ___	12. HOW FREQUENTLY COURSE WILL BE OFFERED Yearly <u>X</u> Alternate Years ___		13. AVERAGE CLASS SIZE 20	14. ANNUAL W. 3.0
15. REQUIRED COURSE IN WHICH MAJOR/CONCENTRATION/MINOR None		16. ELECTIVE COURSE IN WHICH MAJOR/CONCENTRATION/MINOR Fulfills GE&B F.2 elective		
17. DUPLICATION OR APPROXIMATION OF COURSES NOW BEING OFFERED OR NOW BEING PROPOSED None				
18. STAFFING (Indicate either the need to hire new faculty or how present faculty utilization will be shifted to accommodate this course) No new staff would be required. The course could be taught by various members of the Aeronautical Engineering Department. Less sections of AERO 102 (also a GE&B F.2 course) will be taught to balance the addition of this course.				
19. JUSTIFICATION (Explain the need for this course) This course would introduce students to the technological advances which have made aviation possible throughout history. They will gain a greater understanding for and appreciation of flight and space travel, especially as technology in this area has a greater impact on life.				
20. FACILITIES, MATERIALS, AND EQUIPMENT NEEDED TO ACCOMMODATE COURSE Standard lecture room.				

E.O. Wolf  
Department Head

Peter J. Lee  
School Dean

Associate Vice President for Academic Affairs and University Dean

\*Courses proposed for inclusion in GEB must be submitted to the GEB Committee.

2/83



CALIFORNIA POLYTECHNIC STATE UNIVERSITY  
SAN LUIS OBISPO

Course: AERO 210  
History of Aviation  
Prepared By: Russell M. Cummings  
Date of Preparation: 2/10/87

I. Catalog Description

AERO 210 History of Aviation (3)

The history of the technological innovations which led to modern aviation. Examination of the people and circumstances that contributed to the major breakthroughs in aeronautics and astronautics. Discussion of current events in aviation. 3 lectures.

II. Required Prerequisite Preparation

None.

III. Expected Outcome

This course will give the student the ability to appreciate the history and technological developments which have occurred in aeronautics and astronautics. Both the historical developments and their technological backgrounds will be learned. The student will understand the primary motivations for the major developments of aviation, and the form that the development took. Students will gain an understanding for the current advances taking place in aviation and how they affect society.

IV. Text and References

Text: C.H. Gibbs-Smith, Aviation: An Historic Survey From its Origins to the End of World War II, London, Her Majesty's Stationery Office, 1970.

References: A.C. Kermode, Flight Without Formulae, Bath, The Pitman Press, 1970.

L.K. Loftin, Jr., Quest for Performance: The Evolution of Modern Aircraft, National Aeronautics and Space Administration, Sp-468, 1985.

J.D. Anderson, Jr., Introduction to Flight, Second Edition, New York, McGraw-Hill, 1985.

History of Flight materials, National Air and Space Museum, Smithsonian Museum, Washington, D.C.

V. Minimum Student Materials Required

Textbook.

VI. Minimum Facilities Required

Chalkboard and Audiovisual Equipment.

VII. Expanded Description of Content

- a. Historical survey of pre-1900 aviation
- b. The developments in science and technology which made heavier-than-air flight possible.
- c. The engineering and scientific techniques which the Wright Brothers used to develop the airplane.
- d. The effects of world events on the advancement of aviation.
- e. Personality sketches of the people who developed the science and technology of aeronautics and astronautics, and the effects of their contributions.
- f. Basic physical concepts which make flight and space travel possible..
- g. Current developments and future plans in aviation.
- h. Relationship of people to aviation: effects of commercial aviation, military aviation, and space travel on our society.

VIII. Methods of Instruction and Evaluation

Lecture, films, occasional outside speakers, and possible field trips to sites which have played important roles in aviation history (Edwards or Vandenberg Air Force Bases).

Evaluation by examinations to be determined by instructor.

Midterm examination required.

Final examination required.



may be eligible for experiential credit. Units earned for credit may be variable, but may not exceed 18 quarter units. Academic units will determine minimum and maximum units to be earned within degree programs.

Grading: Experiential credit will be awarded using letter grading or credit/no credit grading. Assigned faculty will determine the basis for course grades.

Supervision: While non-faculty personnel may provide support for experiential courses, faculty supervision is necessary for determining the appropriateness of experience for academic credit and for awarding grades.

Course numbering: Experiential courses will carry undergraduate or graduate numbering. Experiential courses may carry departmental or interdisciplinary prefixes. WTUs and SCUs will be assigned according to course prefix.

Measure of units: Students may earn one unit of academic credit for a minimum 30 hours of experience up to a maximum of 18 units of experiential course credit applicable to a degree program. Advanced placement units may be used if appropriate.

Responsibilities: The university will be responsible for determining the appropriateness of experiential learning to academic programs, for evaluating experiences in light of academic programs, and for providing appropriate credit for experiences. Work supervisors will provide on-site oversight of work experience. Students will abide by agreements negotiated with university and work supervisors.

Adopted:

ACADEMIC SENATE  
OF  
CALIFORNIA POLYTECHNIC STATE UNIVERSITY  
San Luis Obispo, California

AS- -89/  
RESOLUTION ON  
GENERAL EDUCATION AND BREADTH PROPOSALS:  
HIST 319X, IT 401/301, and HE 433

- WHEREAS, The organizational flyer for the 1989 London Study Program stated that HIST 319X was, "pending for inclusion in GE&B Area D.4.b." This was never proposed or considered and was, thus, misleading. A certain number of the 78 students involved thought that HIST 319X would count in D.4.b. It was unanimously agreed by the General Education and Breadth Committee that an exception be made this time only to give GE&B Area D.4.b. credit to those students who took HIST 319X during the 1989 London Study Program.
- RESOLVED: That HISTORY 319X, "Life, Culture, and Institutions," be given D.4.b. credit for students who took this course during the 1989 London Study Program; and, be it further
- RESOLVED: That IT 401/301, "Current Technological Issues," be renumbered from IT 401 to IT 301; and, be it further
- RESOLVED: That HE 433, "Historic Costume," be rejected for inclusion in GE&B Area D.

Proposed By:  
General Education and  
Breadth Committee  
Date: October 10, 1989

## ATTACHMENT A

*Final - Exec Com 10.10.89*

## 1989/90 LOTTERY REVENUE BUDGET

## I. REVENUES

A. Balance Available	\$ 4,000,000
B. Receipts	38,000,000
C. Interest Income	<u>1,200,000</u>
TOTAL REVENUES	\$43,200,000
D. Less Reserve	<u>2,000,000</u>
AVAILABLE FOR ALLOCATION	\$41,200,000(a)

## II. EXPENDITURES

A. Campus-Based Programs

Non-Formula-Based Instructional Equipment	\$ 3,000,000
Access to Instructional Computing (Workstations)	3,000,000
Distinguished Visiting Scholars/Artists	2,200,000
Educational Equity	4,050,000
Student Internships--Community Service	1,000,000
Instructional Development and Technology	<u>1,200,000</u>
	\$14,450,000

B. University Initiatives

Forgivable Loan/Doctoral Incentive Program for Minorities and Women	\$ 2,000,000
Fine Arts Initiatives	1,800,000
Teacher Diversity	1,100,000
The California Pre-Doctoral Program	<u>500,000</u>
	\$ 5,400,000

Subtotal Program Allocations	\$19,850,000(b)
------------------------------	-----------------

C. Discretionary Funds	9,925,000(c)
D. Endowment Accounts	9,925,000(c)
E. Implementation Costs (Administration)	<u>1,500,000</u>

TOTAL EXPENDITURES	\$41,200,000
--------------------	--------------

(a) \$41,200,000 available for allocation less \$1,500,000 budgeted for Implementation Costs results in \$39,700,000 available for instructional program allocations.

(b) \$19,850,000 = 50% of \$39,700,000.

(c) \$9,925,000 = 25% of \$39,700,000.

NOTE: Footnotes (a), (b), and (c) were not printed in 1989/90 Blue Book.