MEETING OF THE ACADEMIC SENATE
Tuesday, October 1, 2002
UU220, 3:00 to 5:00pm

I. Minutes: none.

II. Communication(s) and Announcement(s):

III. Reports:
A. Academic Senate Chair:
B. President's Office: President Baker will be in attendance at today's meeting to present a university update and to join in an expanded discussion of issues presented at this year's Convocation.
C. Provost's Office:
D. Statewide Senators:
E. CFA Campus President:
F. ASI Representatives:
G. Other:

IV. Consent Agenda:

V. Business Item(s):
A. Approval of curriculum program and course changes: first reading, Hannings, chair of the Curriculum Committee. (Summaries of new program proposals on pp. 2-8. All other curriculum changes can be viewed at <http://www.academics, calpoly.edu/curriculum/index.htm>. Procedures for Senate review are outlined on p. 9).
B. Resolution on Support for Proposition 47 (Kindergarten-University Public Education Facilities Act of 2002): first reading, Myron Hood for the Executive Committee (p. 10).

VI. Discussion Item(s):

VII. Adjournment:
<table>
<thead>
<tr>
<th>New Concentrations/Specializations</th>
<th>Curric Comm</th>
<th>Acad Senate</th>
<th>Provost</th>
<th>C. O.</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Politics (BA Political Science)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>Ecology (BS Ecology &amp; Systematic Biology)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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</tr>
<tr>
<td>Recreation, Parks and Tourism Management (MS Agriculture, specialization name change)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>Systematics and Biodiversity (BS Ecology &amp; Systematic Biology)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>New Minors</td>
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<tr>
<td>Environmental Studies (College of Science &amp; Math)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
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<tr>
<td>Equine Science (Animal Science Dept)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
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<tr>
<td>Geology (PhYSI: S Dept)</td>
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<tr>
<td>Integrated Project Delivery (Construction MgmUArch Engineering Depts)</td>
<td>P</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>Law and Society (Political Science Dept)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>Meat Science and Processing (Animal Science Dept)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>Microbiology (Biological Sciences Dept)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>Rangeland Resources (College of Agriculture)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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<tr>
<td>Religious Studies (Philosophy Dept)</td>
<td>A</td>
<td>P</td>
<td>Fall 02</td>
<td>NA</td>
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</table>
American Politics Concentration (BA Political Science)

The study of American governmental institutions, politics, and policies. Provides students with a broad knowledge of American politics that could prepare them for careers in public service, as campaign advisers, and as policy analysts.

POLS 315 The American Presidency .................. 4
POLS 316 Political Parties and Interest Groups or
POLS 317 Campaigns and Elections .................. 4
POLS 319 United States Congress ..................... 4
POLS 337 American Political Thought ................. 4
POLS 470 Selected Advanced Topics ................. 4
POLS 471 Urban Politics.............................. 4
Electives .................................................. 4

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Ecology Concentration (BS Ecology & Systematic Biology)

Prepares students for advanced training or professional employment in public or private agencies that deal with the interactions of organisms with their environment. Graduates may pursue careers in education, ecological monitoring or management, environmental impact analysis, and habitat restoration. A graduate will be academically qualified for professional certification as an Associate Ecologist by the Ecological Society of America.

BIO 415 Biogeography ................................. 4
BIO 444 Population Ecology ............................ 3
ZOO 437 Animal Behavior ............................... 4
Systems. Select one course from:
BIO 328, 418; BOT 326; MCRO 436
Methods. Select one course from:
BIO207, 327,342,419, 420
Diversity. Select one course from:
BOT 313, 437; MCRO 224;
ZOO 321, 322, 323, 335, 336,341,425
Adviser approved electives ......................... 0-4

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Recreation, Parks, and Tourism Management Specialization (MS Agriculture)

Prerequisites. In order to develop an academic background in this discipline, students who have not completed a BS/BA degree in Recreation Administration will be required to take the following undergraduate courses: REC 101, REC 210, REC 360, and STAT 217/218.

Required Courses
REC 500 Individual Study ............................ 3
REC 581 Graduate Seminar ............................ 3
REC 599 Thesis .......................................... 6
SS 501 Research Planning ............................ 4
STAT 512 Statistical Methods .......................... 4
Electives .................................................. 25

400-500 level courses approved by the graduate committee. At least 3 units must be at the 500 level.

45
Systematics and Biodiversity Concentration (BS Ecology & Systematic Biology)

Prepares students for advanced training or professional employment in public or private agencies that deal with the identification, relationships, and classification of organisms. Students develop an understanding of biological diversity, its origins, its significance, and how it is described and organized. Graduates may pursue careers in education, biotic inventories and assessment, museums, herbaria, zoos, and botanic gardens.

- BIO 415 Biogeography................................................. 4
- BOT 443 Systematic Botany................................. 4
- MCR0 224 General Microbiology I.............. 5
- BOT 313 Taxonomy of Vascular Plants
  or BOT 437 Phycology........................................... 4
- Select one course from ZOO 321, 322, 323, 341 .... 4
- Select one course from ZOO 335, 336, 425, or
  MCR0436......................................................... 4

ENVIRONMENTAL STUDIES MINOR

Students who complete a minor in Environmental Studies will be able to:

- Analyze, explain, and evaluate environmental issues from both scientific/technical and social/political/economic perspectives.
- Integrate and synthesize knowledge from multiple disciplines.
- Explain and apply the methodologies and approaches that different disciplines bring to bear on complex problems.
- Work productively and effectively with students from other disciplines and with other points of view.
- Confront and grapple with real issues of contemporary significance, issues that will affect them and their future.
- Gain employment or pursue further study that emphasizes interdisciplinary knowledge and skills.

*Satisfies General Education requirement. Units

Subject Area Electives
Select one course from each area. Electives from the subject areas below must be approved in advance by an adviser for the minor.

For students attending Earth Semester at Biosphere 2, see below for substitute coursework.

Biology and ecology: select one
- BIO 112 (B5)*, 227 (B2)*, 301, 325; FNR 306, 319 (B5)*

Earth science: select one
- GEOG 250; GEOL 102 (B3)*; PHYS 313; PSC 201 (B5)*; SS 202

Energy and pollution: select one
- BRAE 348 (F)*; ENVE 324 (F)*, 330, 331; ME 321 (F)*; PHYS 310; PSC 320 (F)*

Social, political, and ethical issues: select one...
- CRP 404; ECON 431; HUM 303 (C4)*; PHIL 340 (C4)*; POLS 325, 326; REC 302; SOC 431

Environmental planning, management, and sustainability: select one
- AG 450; CRP 336; EDES 406; FNR 202; GEOG 301 (D5)*, 333; LA 321

Elective................................................................. 4

Choose one additional 300-400 level course from the above lists.

Capstone Course................................................................. 4

AGIBUSIEDESIIENGRIIM/ICM 350 The Global Environment (F)*

24-28
For students attending Earth Semester at Biosphere 2, substitute the following courses for the Subject Area Electives and Elective. All students in the Environmental Studies Minor must complete the Capstone Course, The Global Environment.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCM 365</td>
<td>Biosphere 2: Earth Systems Science</td>
<td>6</td>
</tr>
<tr>
<td>SCM 366</td>
<td>Biosphere 2: Conservation Biology</td>
<td>6</td>
</tr>
<tr>
<td>SCM 367</td>
<td>Biosphere 2: Human Role in Environmental Change</td>
<td>5</td>
</tr>
<tr>
<td>SCM 368</td>
<td>Biosphere 2: Independent Research in Environmental Science and Policy</td>
<td>3</td>
</tr>
<tr>
<td>SCM 369</td>
<td>Biosphere 2: Planetary Management Seminar &amp; Laboratory</td>
<td>4</td>
</tr>
</tbody>
</table>

**EQUINE SCIENCE MINOR**

The Equine Science minor is designed for students interested in developing a knowledge of and competency in the equine industry. This science-based program will expose students to various aspects of the horse industry, including basic equine husbandry, training, breeding farm management, sales preparation, and marketing. By completing this minor, students will gain an understanding of the principles and practices used within the equine industry.

Prerequisites. BIO 111 or BIO 151; VS 223 is recommended for ASCI 315 but not required.

**Required courses**

- ASCI 102 Principles of Animal Science................. 4
- ASCI 220 Intro to Nutrition                        4
- ASCI 224 Equine Science                            4
- ASCI 315 Equine Biomechanics                      4
- ASCI 346 Equine Nutrition                          4
- ASCI 333 Equine Reproduction or
  ASCI 347 Equine Exercise Physiology................ 5/3

Selected courses...................................... 5-7

Select 5-7 units from the following:

ASCI 324, 329, 333, 339/490, 344, 345, 347; AGB 303, 321

| Total Units | 28-32 |

**MEAT SCIENCE AND PROCESSING MINOR**

**Required courses**

- ASCI 211 Introductory Meat Science                 3
- ASCI 384 Processed Meat or PM 320 Poultry Products 4
- ASCI 415 HACCP for Meat/Poultry                   3
- MCRO 221 Microbiology                             4

Selected courses...................................... 13-16

**6 units must be at upper-division level:**

ASCI 102/231, 226, 290/490, 339, 450, 476;

FSN 125/230, 278, 364; MCRO 421, 444;

AG 450; any upper-division AGB course

| Total Units | 27-30 |

**GEOLOGY MINOR**

The Geology Minor is offered in conjunction with the Earth and Soil Science Department. It provides a background useful for careers in environmental consulting or geotechnical fields. Interested students should consult with a geology adviser.

Prerequisites for the minor are SS 121, CHEM 111 or CHEM 128, and PHYS 132.

**Required Courses.**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOL 201</td>
<td>Physical Geology</td>
<td>3</td>
</tr>
<tr>
<td>GEOL 203</td>
<td>Fossils and the History of Life</td>
<td>4</td>
</tr>
<tr>
<td>GEOL 241</td>
<td>Physical Geology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>
INTEGRATED PROJECT DELIVERY MINOR

This minor is jointly offered by the Construction Management Department and the Architectural Engineering Department, and is specific and intentional in its design. It is intended to provide an "interdisciplinary" understanding of the design and construction process. It is designed to serve students that will be engaged in the AIE/C industry and be involved in integrated services project delivery.

Prerequisite. Upper division standing; and thus students are presumed to have completed the majority of their General Education courses, support, and/or major courses.

Required courses
- SCaM 301 Business and Professional Communication 4
- CM 430 Capital Projects Planning 4
- EDES 430 Collaborative Process 3
- CM 431 Integrated Project Services 3
- CM 432 Design-Build Project Management 3
- CM 542 Advanced Construction Estimating 3

Adviser approved electives 9

Construction Management Majors:
Select 9 units of adviser approved CAED design courses (ARCE, ARCH, CRP or LA prefix)

All other CAED majors:
- CM 364 Project Administration (3)
- CM 452 Project Controls (3)
- CM 454 Building Estimating (3)

Non-CAED majors:
Select 3 adviser approved courses from approved CAED design courses (ARCE, ARCH, CRP or LA prefix)

LAW AND SOCIETY MINOR

The minor consists of required coursework and adviser approved electives. Details are available from the Political Science Department. At least 15 units must be 300-400 level.

Required courses
- POLS 341 American Constitution 4
- POLS 344 Civil Liberties 4
- POLS 345 Judicial Process 4

Select two from the following: 8
- Any English GE C4 course or comparable adviser-approved writing class (4)
- POLS 334 Jurisprudence (4)
- POLS 343 Civil Rights in America (4)

Adviser approved electives 8
MICROBIOLOGY MINOR

This minor is designed to give students from majors in which microbiology may be an important component increased exposure to factual information, concepts and skills in order to provide those students a more complete understanding of the roles of microorganisms as they pertain to studies in their chosen major. The emphasis areas of the minor allow students in the allied health and related fields to expand their breadth of knowledge in microbial diseases, transmission and prevention, and immunologic responses. Students in applied fields of study such as Food and Dairy Sciences, and various aspects of agriculture, would gain additional information in pertinent topics such as microbial involvement in water and wastewater treatment, the role of microorganisms in recycling of nutrients and soil fertility, microbial roles in food processing, spoilage, production and disease transmission.

Required Courses.  

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
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<tbody>
<tr>
<td>MCRO 221 Microbiology or MCRO 224 General Microbiology</td>
<td>4/5</td>
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<td>MCRO 225 General Microbiology II</td>
<td>5</td>
</tr>
<tr>
<td>MCRO 423 Medical Microbiology (for Medical/Health Science emphasis area) or MCRO 424 Microbial Physiology (for Applied and Environmental emphasis area)</td>
<td>5</td>
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</table>

Emphasis area courses  

Select courses from one of the following emphasis areas, in addition to the courses required, so as to attain a total of 26-30 units:

**Medical/Health Sciences**
- MCRO 320, 342, 402, 424, 430
- ZOO 425, 426, 428

**Applied and Environmental Sciences**
- MCRO 342, 421, 423, 433, 436, 444, SS 422

RANGELAND RESOURCES MINOR

An interdisciplinary program sponsored by the Animal Science and the Earth and Soil Sciences Departments, intended for the purpose of educating students in the field of managing productive and sustainable rangelands, incorporating knowledge of rangeland ecosystems and the associated renewable resources. Also for careers as rangeland specialists or other related fields assisting those who incorporate rangeland resources into their livelihood.

Before being admitted to the program, students must have successfully completed the following: BOT 121 or BIO 114; MATH GE B1 requirement satisfied; SS 121.

Required courses.  *At least one-half of the units must be at the 300-400 level.*

**Range Resource Area**
- ASCI 329 and AG 450 8

**Related Animal Area. Select one course from:**
- ASCI 141; ASCI 143; ASCI 311 3-4

**Related Agricultural Business Area. Select one course from:**
- AGB 212/321/326/457 4

**Related Plant Area. Select one course from:**
- BID 435; BOT 313; BOT 326; BOT 333; CRSC 123; CRSC 330; PPSC 221 4

**Related Resource Management Area. Select one course from:**
- BID 325; BIO 419; BIO 427; FNR 306; FNR 408; GEGILAIFNR 318 3-4

**Related Soil Science Area: Select one course from:**
- SS 202/321/433/440 3-4
The Religious Studies minor program is designed for students who want to enhance their understanding of the five great religious traditions of the contemporary world: Judaism, Christianity, Islam, Hinduism, and Buddhism. The minor consists of 24 units. Interested students are invited to contact the Philosophy Department Office for more information and application forms.

<table>
<thead>
<tr>
<th>Units</th>
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<tbody>
<tr>
<td><strong>Required courses</strong></td>
</tr>
<tr>
<td>RELS 304 Judaism</td>
</tr>
<tr>
<td>RELS 306 Hinduism</td>
</tr>
<tr>
<td>RELS 307 Buddhism</td>
</tr>
<tr>
<td>RELS 309 Monotheism: Judaism, Christianity and Islam (C4)**</td>
</tr>
<tr>
<td>PHIL 342 Philosophy of Religion or</td>
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<tr>
<td>PHIL 320 Asian Philosophy</td>
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<tr>
<td>PSY 339 Psychology of Religion or</td>
</tr>
<tr>
<td>SOC 377 Sociology of Religion</td>
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<td>24</td>
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TO ALL ACADEMIC SENATORS:

At its meeting of October 1, the Academic Senate will have its first reading of curriculum program and course proposals and its second reading on October 29. The procedure to be followed for this review is outlined below. If you have any questions regarding a proposal, please contact the Academic Senate office (mcamuso@calpoly.edu) before October 15.

Following the practice implemented last cycle, summaries of all program and course proposals sent by the Academic Senate Curriculum Committee to the Senate for consideration will be posted on the web. The URL for curriculum proposals is <http://www.academics.caipoly.edu/curriculum/index.htm>. Every senator is expected to review these proposals.

REGARDING PROGRAM CHANGES (I): All program changes will go through the normal first and second reading procedure with descriptions of the programs and curriculum displays in the October 1 agenda for review.

REGARDING CURRICULUM AND COURSE CHANGES (II AND III): If any senator wishes to have a particular course brought before the body of the Senate (see postings on the web), then that request must be made in writing or email to the Academic Senate (mcamuso@calpoly.edu) before October 15. For all such requests, hard copies of the curriculum/course change will be listed as a Business Item on the agenda. At the October 29 meeting, all courses not pulled by request will be on the Consent Agenda. Those pulled will be treated as second reading items; i.e., they will be discussed and voted upon.

If you have any questions regarding these procedures, please contact the Academic Senate office at 61258 or mcamuso@calpoly.edu.
Rationale: Proposition 47 (Kindergarten-University Public Education Facilities Act of 2002) allows the State of California to issue $13.05 billion in general obligation bonds for the construction and renovation of public elementary, secondary, and higher education facilities throughout the state. The need for such funding is acute at all levels of education which face dramatic enrollment growth over the next decade. The proposition specifically would provide $496 million to the CSU.

WHEREAS, The overwhelming majority of students in the CSU system, and at Cal Poly in particular, come from the public schools of California; and

WHEREAS, The current overcrowding at K-12 public schools in California is hindering student success; and

WHEREAS, The deteriorating condition of many public school buildings in California makes them unsafe for use by students; and

WHEREAS, Public schools throughout California are in need of substantial funds to improve the infrastructure of the schools in order to meet student growth and modernize the current facilities, therefore be it

RESOLVED: That the Academic Senate of Cal Poly support the passage of Proposition 47 in the November 5 election; and, be it further

RESOLVED That the Academic Senate of Cal Poly direct its chair to write a letter to the local newspapers expressing its support and asking for public support of this proposition; and, be it further

RESOLVED: That the Academic Senate of Cal Poly send a copy of this to the Yes on 47 Campaign and to the Academic Senate CSU.

Proposed by: Academic Senate Executive Committee
Date: September 24, 2002