I.
Minutes: Approval of the Academic Senate minutes for November 18 and December 2, 1997 (pp. 3-6).

II.
Communication(s) and announcement(s):
A. All electronic mail is being sent to your OpenMail account. If you do not have an OpenMail account, mail will be directed to your UNIX account. However, if you have a UNIX account and an OpenMail account, Academic Senate communications will automatically be sent to your OpenMail account.
B. The Academic Senate is now on the World Wide Web. Information regarding meetings, agenda, minutes, resolutions, etc. can be viewed at http://www.calpoly.edu/~acadsen.
C. Presidential responses to Academic Senate resolutions:
   AS-485-97 Resolution on Sports Complex (pp. 7-8).
   AS-486-97 Resolution on Enrollment (p. 9).
D. At its meeting of 1.6.98, the Academic Senate Executive Committee endorsed the following motion regarding catalog rights: “The Academic Senate Executive Committee endorses the Curriculum Committee’s recommendation that Cal Poly return to its former system wherein students could choose any interim catalog to graduate under, not just the matriculation or graduation catalogs.”
E. At its meeting of 1.6.98, the Academic Senate Executive Committee endorsed the following motion: “The Academic Senate Executive Committee endorses the MCA criteria outlined in the December 22, 1997 memo from the Dean’s Advisory Admissions Committee to Paul Zingg re MCA Recommendation for 1998 Admission Cycle.”
F. Academic Senate Reading List 1997-1998 (p. 10).

III.
Reports:
Due to the length of today’s agenda, all reports will be provided in writing and distributed at the meeting.
A. Academic Senate Chair:
B. President’s Office:
C. Provost’s Office:
D. Statewide senators:
E. CFA campus president:
F. Staff Council representative:
G. ASI representatives:
H. Other:
I. WASC update:
J. CETI update:

IV. Consent agenda:

continued on page 2
V. Business item(s):

A. (maximum discussion time, 15 minutes) Resolution on Final Exam:
   Freberg/Keesey, Chairs of the Instruction and Curriculum Committees, second
   reading (p. 11-12).

B. (maximum discussion time, 15 minutes) Resolution on Faculty Governance of
   Mode of Instruction: Laura Freberg, Chair of the Instruction Committee, second
   reading (p. 13).

C. (maximum discussion time, 15 minutes) Resolution on CSU Presidents’ Pay
   Raises: Lewis, Caucus Chair for CSM, second reading (p. 14).

D. (TIME CERTAIN 4PM or after completion of second reading items)
   Curriculum proposals: Keesey, chair of the Curriculum Committee, first reading:
   The following course additions, deletions, and changes have been approved by the
   Curriculum Committee for the 1998 catalog with the exception of the 11 numbered-
   and-circled courses indicated in the left-hand margins. These 11 courses also appear
   on pages 69-70 for convenience. (pp. 15-64). Additional and/or revised curriculum
   materials will be distributed at the meeting.

E. Courses proposed for U.S. Cultural Pluralism requirement: Keesey, chair of the
   Curriculum Committee, first reading (p. 65).

F. Courses proposed for General Education & Breadth: Keesey, chair of the
   Curriculum Committee, first reading (pp. 66-68).

G. Summary of Program Proposals 1998 Catalog: Keesey, chair of the Curriculum
   Committee: Program recommendations in this section are substantial and included
   here for general discussion, first reading (pp. 71-72).

H. Resolution on 1996/97 Program Review and Improvement Committee Report of
   Findings and Recommendations: Riener, Chair of the Program Review and
   Improvement Committee, first reading (pp. 15-50 of your 11.18.97 agenda).

VI. Discussion item(s):

VII. Adjournment:
State of California  
Memorandum  

To: Anny Morrobel-Sosa, Chair  
Academic Senate  

From: Warren J. Baker  
President  

Date: December 17, 1997  

Copies: Paul J. Zingg  
Frank Lebens  
John McCutcheon  

Subject: Response to Academic Senate Resolution on Sports Complex (AS-485-97)  

Academic Senate Resolution AS-485-97 makes several key points about the proposed sports complex that I wish to address.

First, the Resolution recognizes the need for new sports facilities at the University, including both all-purpose recreation fields and competitive venues for intercollegiate softball and baseball. This recognition supports both the decision of the ASI to help fund the project and the long-range planning designs of Athletics and Campus Planning.

Second, the Resolution underscores an environmental vision for the University that recognizes our responsibility to develop an understanding of environmental issues in our students. How we manage the development of the sports complex, and how we balance the campus build-out with environmental concerns, can be an instructive opportunity for our students and a statement of our commitment to protect the natural resources of the campus.

Third, the Resolution appropriately commends the Biological Sciences Department’s Advisory Committee for its report on the sports complex. The report’s focus on both on-site and off-site mitigation strategies emphasizes a larger environmental vision for the campus that I endorse. This report and the ad hoc committee which produced it will play key and on-going roles in the development of the sports complex and other environmental mitigations on the campus.

Fourth, the Resolution suggests a different location for the softball field than presently configured. Although the Biological Sciences Department’s report noted above, which the Senate Resolution endorses, does not call for such a move, I will ask Vice President Frank Lebens and the design team to review the feasibility of this suggestion with appropriate parties. Any reconsideration of the site for the softball field, though, must encompass such factors not mentioned in the Resolution as the integrity and cost of the entire project, ground conditions, ADA regulations, NCAA competitive guidelines,
space utilization efficiencies, access to campus farm units, the picnic area, parking, and the environmental impact studies that have already been completed, reviewed, and approved.

Fifth, I believe that the Senate Resolution, in conjunction with the initial Environmental Impact Report, the Final Environmental Impact Report, the Report of the Biological Sciences Advisory Committee, and the careful reviews of the project by Campus Planning, the ASI, the CSU Board of Trustees, and the project consultants, will contribute to the design and development of a coherent, integrated, multi-use recreational facility that will be environmentally sensitive, responsibly funded, and widely used.
Academic Senate

To: Anny Morrobel-Sosa, Chair
    Academic Senate

From: Warren J. Baker
      President

Date: December 16, 1997

Copies: Paul J. Zingg
         Linda C. Dalton

Subject: Academic Senate Resolution on Enrollment (AS-486-97/B&LRPC)

I am pleased to approve the Academic Senate Resolution on Enrollment, AS-486-97/B&LRPC. I appreciate the Senate's support of the University's long-range enrollment planning principles and direction. Please express my thanks to both the members of the Academic Senate and the Budget and Long-Range Planning Committee.
ACADEMIC SENATE READING LIST
1997-1998

9.4.97   CSU Emeritus and Retired Faculty Association CalPERS Retirement Analysis
9.4.97   Final Report of the Task Force on Distance Education
10.1.97  Intellectual Property Policy
10.29.97 Preliminary Biological Study of the Impacts of the Cal Poly Sports Complex
11.10.97 Merit Pay Task Force Final Report (CSU Academic Senate)
11.12.97 Cal Poly Performance Salary Step Increase Policy
12.8.97  The Cornerstones Report (final)
Adopted:

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

AS-97/
RESOLUTION ON
FINAL EXAM SCHEDULING

WHEREAS, Campus policy currently provides for a maximum of one hour final exams for 1-2 unit courses, two hour final exams for 3 unit courses, and three hour final exams for 4 unit courses; and

WHEREAS, Increased numbers of 4 unit courses in the curriculum are creating final exam scheduling and room conflicts for students and faculty; and

WHEREAS, Faculty should have the opportunity to assess their courses in the manner they deem most appropriate; be it therefore

RESOLVED, That the attached final exam schedule, which provides for three hour final blocks in a six day schedule with common finals only on the Saturday preceding finals week, be adopted; and be it further

RESOLVED, That this schedule sets only maximum times available for final exams, and in no way otherwise dictates the actual length of final exams for faculty.

Proposed by the Academic Senate
Curriculum and Instruction Committees
October 29, 1997
Final Exam Schedule

Exams will be held in the regularly assigned classroom at the days and times indicated below. Instructors requesting to change a final exam time must obtain approval from the Department Head and College Dean at least two weeks before final exam week. Questions concerning the final exam schedule should be referred to the University Scheduling Office at X6-2461.

FINAL EXAM SCHEDULE FOR DAY CLASSES

<table>
<thead>
<tr>
<th>Exam Days</th>
<th>Monday (M)</th>
<th>Tuesday (T)</th>
<th>Wednesday (W)</th>
<th>Thursday (R)</th>
<th>Friday (F)</th>
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</thead>
<tbody>
<tr>
<td>Exam Hrs</td>
<td>Class Start Time and Meeting Days</td>
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<td>Class Start Time and Meeting Days</td>
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<tr>
<td>0710-1000am</td>
<td>0710 MWF, MW WF, MF</td>
<td>0710 TR</td>
<td>0810 MWF, MW WF, MF</td>
<td>0810 TR</td>
<td>0910 MWF, MW WF, MF</td>
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<td>1010-0100pm</td>
<td>1010 MWF, MW WF, MF 1050-1200 MWF 1010-1200 MW</td>
<td>0910 TR 0910-1100 TR 0940-1100 TR</td>
<td>1110 MWF, MW WF, MF</td>
<td>1010 TR 1210 MWF, MW WF, MF</td>
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<tr>
<td>0110-0400pm</td>
<td>0110 MWF, MW WF, MF 0130-0240 MWF</td>
<td>1210 TR 1210-0130 TR 1210-0200 TR</td>
<td>0210 MWF, MW WF, MF 0210-0400 MW 0250-0400 MWF</td>
<td>0110 TR 0140-0300 TR 0310 MWF, MW WF, MF</td>
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<tr>
<td>0410-0700pm</td>
<td>0410 MWF, MW WF, MF 0410-0530 MW 0410-0600 MW</td>
<td>0210 TR 0210-0400 TR 0210-0400 TR</td>
<td>0510 MW, M 0610 MW, M</td>
<td>0310 TR 0310-0430 TR Room Conflict Resolution</td>
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FINAL EXAM SCHEDULE FOR EVENING CLASSES

<table>
<thead>
<tr>
<th>Exam Days</th>
<th>Monday (M)</th>
<th>Tuesday (T)</th>
<th>Wednesday (W)</th>
<th>Thursday (R)</th>
<th>Friday (F)</th>
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<td>Class Start Time and Meeting Days</td>
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<td>Class Start Time and Meeting Days</td>
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<tr>
<td>0710-1000pm</td>
<td>0710 MW, M</td>
<td>0610 TR, T</td>
<td>0510 W</td>
<td>0410 TR 0510 TR, T</td>
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</table>

COMMON FINAL EXAM SCHEDULE

(held the Saturday before the normal finals week)

<table>
<thead>
<tr>
<th>Saturday (S)</th>
<th>0810-1100am Common Final Time # 1</th>
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<tbody>
<tr>
<td>Saturday (S)</td>
<td>1110-0200pm Common Final Time # 2</td>
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Note:

Classes meeting 4 or 5 days per week will follow the MWF schedule. One-unit lecture classes will hold their exam at the last regular meeting of the class to avoid scheduling conflicts. Classes that meet in more than one lecture room during the quarter will meet in the room announced by your instructor using the Room Conflict Resolution time listed above. Exam time is determined by the hours scheduled for the lecture portion of any course. Exams for activity, laboratory and recitation classes will be held during the last class meeting.
WHEREAS, Curriculum development and oversight are among the most important responsibilities of the faculty; and

WHEREAS, The curriculum process is best served when a climate of full disclosure and consultation is encouraged; and

WHEREAS, The use of distributed and distance learning techniques is becoming much more frequent; and

WHEREAS, The use of distributed and distance learning techniques represents a significant and relatively experimental change in instructional mode; and

WHEREAS, There is currently no mechanism of university-wide faculty review for the use of distributed and distance learning; therefore, be it

RESOLVED: That new course proposals should specify whether or not distance and distributed learning techniques will be used, to what degree they will be used, and a rationale for how these techniques will contribute to positive student outcomes; and, be it further

RESOLVED: That existing courses undergoing a change in mode of instruction from traditional to 50 percent or more SCU’s via distributed or distance learning be reviewed under current policies and procedures for new courses; and, be it further

RESOLVED: That the Academic Senate Instruction and Curriculum Committees provide an annual report to the full Senate regarding the use of distributed and distance learning on campus.

Proposed by: The Academic Senate Instruction Committee
Date: September 23, 1997
WHEREAS, The CSU Board of Trustees has taken action to increase the salary of CSU presidents by 10 percent; and

WHEREAS, This comes in a year when the majority of CSU faculty will receive a pay increase of slightly more than 2 percent; and

WHEREAS, CSU faculty salaries lag those for comparable universities by about 10 percent; and;

WHEREAS, The CSU Board of Trustees has taken no steps to address this shortfall; therefore, be it

RESOLVED: That the Academic Senate of Cal Poly State University condemn the CSU Board of Trustees and the CSU administration for their action to increase the salaries of CSU presidents; and, therefore, be it

RESOLVED: The Academic Senate of Cal Poly State University strongly urge the CSU Board of Trustees to rescind their action until the issue of adequate pay raises for CSU faculty and staff is adequately addressed.

Proposed by: George Lewis, CSM
Date: October 14, 1997
NEW COURSES

AG 439 Internship in Integrated Ranch Operations (6-12) supv, cr/nc, max 18 units
AGB 202 Communication Leadership and Management Skills for Agribusiness (4) 4 lec
AGED 460 Research Methodology in Agricultural Education and Communication (1) 1 lec
ASCI 212 Livestock Show Management (2) 2 act, max 4 units
ASCI 214 Equine Management (2) 2 lab, mcf from x214
ASCI 324 Advanced Equine Evaluation (2) 2 lab

New Course Prefix: BRAE Bioresource and Agricultural Engineering

BRAE 239 Engineering Surveying (4) 2 lec 2 lab
BRAE 247 Forest Surveying (2) 1 lec 1 lab (crosslisted as FNR 247)
BRAE 335 Internal Combustion Engines (4) 2 lec 2 lab
BRAE 460 Senior Project Organization (1) 1 lec

CRSC 444 Precision Farming (4) 3 lec 1 lab, ( new mcf)

DSCI 333 Dairy Cattle Management, Safety and Animal Well-Being (4) 3 lec 1 act (replacing DSCI 250)
DSCI 350 Dairy Industry Communications (2) 2 act, max repeatable: 8 units
DSCI 444 Dairy Microbiology (4) 2 lec 2 lab crosslist with BACT 422? note to depts regarding course #

FNR 247 Forest Surveying (2) 1 lec 1 lab (crosslisted as BRAE 247)
FNR 335 Human Resources and Conflict Management in Natural Resources (4) 3 lec 1 lab
**FNR 412 Forest and Natural Resources Senior Assessment Project (4) 2 lec 2 lab

Curriculum Committee: APPROVED PENDING answers to further questions regarding Swanton Ranch**

FNR 435 Natural Resources Policy Analysis (4) 3 lec 1 lab
FNR 465 Ecosystem Management (4) 3 lec 1 lab mcf (mcf from a changed FNR 418)
FNR 472 Leadership Practice (1) 1 lab (crosslisted with REC 472)
NEW COURSES (continued)

FSN 204 Food Processing Operations (4) 3 lec 1 lab (replacing FSN 301 and FSN 302)
FSN 325 Food Quality Control (5) 4 lec 1 lab mcf (replacing FSN 332 and FSN 333, which had mcf)
FSN 354 Packaging Function in Food Processing (3) 3 lec
FSN 364 Food Chemistry (4) 3 lec 1 lab
FSN 384 Processed Meat and Poultry Products (4) 3 lec 1 lab mcf (replacing FSN 338 (mcf) and FSN 431)
FSN 455 Product Development and Sensory Evaluation (5) 3 lec 2 act mcf (replacing FSN 407 (mcf) and FSN 409)
FSN 494 Food Engineering (4) 3 lec 1 lab

REC 127 Cross Cultural Dimensions of Leisure (4) 4 lec (replacing REC 327) not approved for USCP
REC 203 Resource Law Enforcement (3) 3 lec; crosslisted with FNR 203
REC 305 Recreation Areas and Facilities Management (4) 3 lec 1 lab
REC 311 Environmental Interpretation (4) 3 lec 1 lab (crosslisted with FNR 311)
REC 313 Issues in Natural Resources Tourism (4) 3 lec 1 lab
REC 405 Management and Leadership for Recreation Administration (4) 4 lec
REC 410 Resource Recreation Management (4) 3 lec 1 lab (crosslisted with FNR 410)
REC 417 Resource Recreation Planning (3) 2 lec 1 lab (crosslisted with FNR 417)
REC 450 Grant Development and Writing (4) 4 lec
REC 463 Pre-Internship Seminar (1) CR/NC 1 sem
REC 472 Leadership Practice (1) 1 lab (crosslisted as FNR 472)

VS 320 Zoonoses and Veterinary Public Health Concerns (4) 3 lec, 1 act
DELETED COURSES

AG 235 Agricultural Power (3) 1 lec 2 lab (replaced by BRAE 335)
AGED 350 Undergraduate Field Experience (1) 1 lec (CR/NC)
AGED 351 Undergraduate Field Experience (1) supv (CR/NC)

AE 399 Graphic Interface Computing in Agriculture (1) 1 lab
AE 450 Advanced Graphical Interface Computing (1) 1 lab

ASCI 331 Applied Range Management Practices (2) 1 lec 1 act

DSCI 250 Dairy Farm Safety and Production Practices (3) 2 lec 1 act (replaced by DSCI 333)
DSCI 323 Breeds, Fitting and Showing, and Management of Dairy Cattle (3) 2 lec 1 lab
DSCI 332 Dairy Inspection (3) 2 lec 1 lab
DSCI 450 Dairy Biotechnology (3) 2 lec 1 act

FNR 302 Natural Resources Policy (3) 2 lec 1 lab (replaced by FNR 335 and 435)
FNR 316 Growth and Yield (3) 2 lec 1 lab
FNR 332 Forest Products (4) 3 lec 1 lab
FNR 345 Chaparral Management (3) 2 lec 1 lab mcf (mcf to FNR 360) (see changes, FNR 305, FNR 250
FNR 406 Natural Resources Administration (2) 2 lec (replaced by FNR 335)
FNR 409 Coastal Resource Management (3) 2 sem 1 lab
FNR 438 Wood Energy and Residue Utilization (2) 1 lec 1 lab (see changes, FNR 434)
FNR 506 World Forestry in Social Context (2) 2 lec
DELETED COURSES (continued)

FSN 301 Unit Processing Operations I (replaced by FSN 204)
FSN 302 Unit Processing Operations II (replaced by FSN 204)
FSN 332 Statistical Quality Control (replaced by FSN 325)
FSN 333 Quality Assurance in Food Industries mcf (replaced by FSN 325)
FSN 338 Further Processing of Muscle Foods mcf (replaced by FSN 384)
FSN 431 Advanced Muscle Food Science (replaced by FSN 384)
FSN 407 Food Composition Science mcf (replaced by FSN 455)
FSN 409 Sensory Evaluation of Food (replaced by FSN 455)

OH 302 Wholesale Marketing Systems for Ornamental Horticulture Crops and Services (3)
   2 lec 1 act mcf

REC 105 Recreation Leadership (3) 2 lec 1 lab mcf
REC 327 Human Dimension of Leisure (3) 3 lec (x-listed PSY 327 which is also being deleted); replaced by REC 127
REC 462 Senior Project Part II (2) supv
CHANGED COURSES

Change all AE courses to BRAE; and see specific changes below
Change all ASM courses to BRAE; and see specific changes below

AE/ASM 339 Internship in Agricultural Engineering (1-12) cr/nc to BRAE 339 Internship in Bioresource and Agricultural Engineering
AE 446 Geographic Information Data Sources (2) 1 lec 1 lab to BRAE 446 CAD Software for Land Modeling
AE 462 Senior Project (3) supv to BRAE 462 (2)
AE/ASM 485 Coop. Educ. Exp. in Ag Engr (6) cr/nc to BRAE 485 Coop Educ Exp in Bioresource and Agricultural Engineering
AE/ASM 495 Coop Educ Exp in Ag Engr (12) cr/nc to BRAE 495 Coop Educ Exp in Bioresource and Agricultural Engineering
AE/ASM 570 Selected Topics in Ag Engr (1-3) 1-3 sem to BRAE 570 Selected Topics in Bioresource and Agricultural Engineering
AE/ASM 571 Selected Advanced Laboratory in Ag Engr (1-3) 1-3 lab to BRAE 571 Selected Advanced Laboratory in Bioresource and Agricultural Engineering

AG 124 Small Engines (2) 1 lec 1 act to BRAE 124
AG 201 Closed Circuit Hydraulics (3) 2 lec 1 lab to BRAE 201
AG 231 Agricultural Building Construction (3) 1 lec 2 lab to BRAE 231
AG 234 Agricultural Power Transmission and Mechanics (3) 2 lec 1 lab to BRAE 233
AG 241 Gasoline Engine Diagnosis (3) 2 lec 1 lab to BRAE 241
AG 242 Diesel Fuel Systems (3) 2 lec 1 lab to BRAE 242
AG 244 Project Analysis (5) 3 lec 2 lab to BRAE 244
AG 245 Agricultural Equipment Projects (3) 1 lec 2 lab to BRAE 245
AG 301 Agriculture and American Life (3) 3 lec (F.2.) to (4) 4 lec
AGB 101 Introduction to Agribusiness and Agricultural Economics (4) 4 lec to Introduction to Agribusiness
AGB 212 Agricultural Economics (3) 3 lec to (4) 4 lec
AGB 301 Agricultural Marketing (3) 3 lec to Food and Fiber Marketing (4) 4 lec
AGB 310 Agribusiness Credit and Finance (3) 3 lec to (4) 4 lec
AGB 312 Agricultural Policy (3) 3 lec to (4) 4 lec
AGB 314 Fair Management (3) 3 lec to Fair and Fair Facility Management (4) 4 lec
AGB 315 Land Economics (3) 3 lec to (4) 4 lec
AGB 317 Agriculture-Consumer Relationships (3) 3 lec to (2) 2 sem
AGB 318 Agricultural Trade Policies (3) 3 lec to International Trade and Agriculture (4) 4 lec
AGB 360 Agribusiness Research Methods (3) 3 lec to Agribusiness Information Technology (4) 4 lec
AGB 418 U.S. and Asia Pacific Agricultural Trade (3) 3 lec to Seminar in U.S./World Agricultural Trade Issues (2) 2 sem
AGB 421 Agribusiness Operations Analysis (4) 3 lec 1 act to 4 lec
AGB 427 Agricultural Estate Planning (3) 3 lec to (2) 2 sem
AGB 435 Linear Programming in Agriculture (3) 2 lec 1 act to (4) 4 lec
AGB 456 Crop Management Problems (4) 3 lec 1 act to 4 lec
AGB 457 Livestock Management Problems (4) 3 lec 1 act to 4 lec
AGB 458 Dairy Management Problems (4) 3 lec 1 act to 4 lec
AGED 404 Agricultural Leadership (2) 2 act to (3) 2 lec 1 act
AGED 426 Presentation Methods (3) 3 act to Presentation Methods in Agricultural Communication
AGED 461 Senior Project (3) 1 lec, supv to (2) 1 lec, supv
CRSC 402 Enterprise Project (2-4) (CR/NC) 1 lec, variable practicum to Enterprise Project Management
CRSC 422 Tropical Crop, Fruit and Nut Production (4) (also listed as FRSC 422) 3 lec 1 lab to Tropical and Subtropical Crop and Fruit Production (new MCF requested)
CHANGED COURSES (continued)

DSCI 202 Dairy Product Marketing Programs (3) 2 lec 1 act to Dairy Promotion and Marketing (4) 4 lec
DSCI 223 Frozen Dairy Foods (3) 2 lec 1 lab to (4) 3 lec 1 lab
DSCI 233 Milk Processing and Marketing (4) 3 lec 1 lab to Milk Processing and Inspection
DSCI 234 Dairy Foods Evaluation (3) 1 lec 2 act to (2) 1 lec 1 lab
DSCI 241 Dairy Cattle Selection (3) 1 lec 2 act to Dairy Cattle Selection, Breeds, Fitting and Showing
(4) 2 lec 2 act
DSCI 301 Advanced Dairy Cattle Feeding (3) 2 lec 1 act to Dairy Cattle Nutrition (4) 3 lec 1 act
DSCI 321 Lactation Physiology (3) 3 lec to (4) 4 lec
DSCI 330 Artificial Insemination (3) 2 lec 1 lab to Artificial Insemination and Embryo Biotechnology (4) 3 lec
1 lab
DSCI 401 Physical and Chemical Properties of Dairy Products (3) 2 lec 1 lab to (4) 3 lec 1 lab
DSCI 402 Quality Assurance and Control of Dairy Products (3) 2 lec 1 lab to (4) 3 lec 1 lab
DSCI 422 Breeding and Selection of Dairy Cattle (4) 3 lec 1 lab to Breeding and Genetics of Dairy Cattle
DSCI 433 Dairy Plant Management and Equipment (3) 3 lec to (4) 3 lec 1 lab
DSCI 434 Cheese and Fermented Dairy Foods (5) 4 lec 1 lab to (4) 3 lec 1 lab
DSCI 435 Concentration/Fractionation and Butter Technology (5) 4 lec 1 lab to (4) 3 lec 1 lab
DSCI 522 Bioseparation Processes in Dairy Product Technology (3) 2 lec 1 lab to (4) 3 lec 1 lab
DSCI 581 Graduate Seminar in Dairy Science (3) 3 sem to (1-3) 1-3 sem

FNR 201 Forest Resources (3) 3 lec (F.2.) to Introduction to Forest Ecosystem Management
FNR 203 Resource Law Enforcement (3) 3 lec: crosslisted as REC 203
FNR 204 Resource Fire Control (2) 1 lec 1 lab mcf to (3) 2 lec 1 lab mcf
FNR 250 Survey and Management of Mediterranean Ecosystems (2) 2 lec to FNR 360 (4) 3 lec 1 lab mcf
(mcf from FNR 345; delete FNR 345 (3); see FNR 305)
FNR 303 Forest Protection (5) 4 lec 1 lab to FNR 402 Forest Health (4) 3 lec 1 lab
CHANGED COURSES (continued)

FNR 304 Ecology of Resource Areas (4) 3 lec 1 lab to FNR 306 Natural Resource Ecology and Habitat Management

FNR 305 Forest Harvesting (3) 3 lec mcf to FNR 260 Forest Harvesting and Utilization (3) 2 lec 1 lab mcf (& delete FNR 345; see FNR 250)

FNR 311 Environmental Interpretation (4) 3 lec 1 lab: crosslisted as REC 311

FNR 314 Forest Mensuration (5) 3 lec 2 lab mcf to FNR 315 Forest Mensuration and Sampling (4) 3 lec 1 lab mcf

FNR 318 Applications of GIS in Natural Resources (2) 2 lab (Also listed as LA 318), mcf to (3) 1 lec 2 lab

FNR 325 Woodlot and Christmas Tree Management (3) 2 lec 1 lab and FNR 333 Hardwood Management (3) 2 lec 1 lab to FNR 355 Hardwood and Woodlot Management (4) 3 lec 1 lab

FNR 342 Fire Ecology (3) 2 lec 1 lab to FNR 307

FNR 401 Natural Resource Economics (3) 2 lec 1 lab and FNR 415 Forest and Natural Resources Valuation (3) 2 lec 1 lab to FNR 326 Natural Resources Economics and Valuation (4) 3 lec 1 lab

FNR 403 Environmental Impact Analysis (3) 2 lec 1 lab mcf to FNR 416 Environmental Impact Analysis and Management (4) 3 lec 1 lab mcf

FNR 407 Silviculture and Vegetation Management (4) 3 lec 1 lab mcf to FNR 365 Silviculture and Vegetation Management (3) 2 lec 1 lab mcf

FNR 410 Resource Recreation Management (4) 3 lec 1 lab: crosslisted as REC 410

FNR 417 Resource Recreation Planning (3) 2 lec 1 lab: crosslisted as REC 417

FNR 418 Integrated Forest Resources Management (4) 3 lec 1 lab mcf to FNR 414 Timber Management, mcf

FNR 440 Watershed Management (3) 2 lec 1 lab to FNR 419 Watershed Management (4) 3 lec 1 lab

FNR 441 Forest and Range Hydrology Forest and Range Hydrology (3) 2 lec 1 lab and FNR 442 Watershed Protection (2) 1 lec 1 lab to FNR 420 Advanced Watershed Hydrology (4) 3 lec 1 lab

FNR 434 Tree Growth and Wood Properties (2) 1 lec 1 lab to Wood Properties and Products (5) 3 lec 2 lab (& delete FNR 438 (2))
CHANGED COURSES (continued)
FRSC 402 Enterprise Project (2-4) (CR/NC) 1 lec, variable practicum to Enterprise Project Management
FRSC 422 Tropical Crop, Fruit and Nut Production (4) (also listed as CRSC 422) 3 lec 1 lab to Tropical and Subtropical Crop and Fruit Production

FSN 101 Orientation to Food Science and Nutrition (1) 1 lec (CR/NC) to Orientation to Nutritional Science
FSN 170 Introductory Food Science (4) 3 lec 1 lab mcf to FSN 125 Introduction to Food Science (5) 4 lec 1 lab mcf
FSN 209 Procurement and Use of Muscle Foods (3) 2 lec 1 lab to Animal Food Products
FSN 211 Muscle Food Science (3) 2 lec 1 lab to Meats
FSN 217 Fundamentals of Food Processing Operations (4) 3 lec 1 lab to FSN 154 Basic Calculations in Food Processing
FSN 331 Principles of Food Plant Sanitation (3) 3 lec to FSN 274 Food Plant Sanitation and Safety (4) 4 lec
FSN 336 Food Packaging (3) 3 lec to FSN 334
FSN 339 Cereal Science and Processing (3) 3 lec to FSN 244 Cereal and Bakery Science (4) 3 lec 1 lab, new request for mcf
FSN 415 Methods of Teaching Nutrition (3) 2 lec 1 act to Nutrition Education and Communications (4) 3 lec 1 lab
FSN 416 Community Nutrition (3) 3 lec to (4) 4 lec
FSN 429, 430 Diet Therapy I, II (3)(3) 2 lec, 1 lab each to Clinical Nutrition I, II (4) (4) 3 lec 1 lab each
FSN 435 Food Engineering (4) 4 lec to FSN 444 Engineering Concepts in Food Processing
FSN 436 Food Laws and Regulations (3) 3 lec to FSN 374 Food Laws and Regulations (4) 4 lec
FSN 437 Advanced Food Processing (4) 3 lec 1 lab mcf to FSN 474 mcf
FSN 439 Food Analysis (4) 3 lec 1 lab to FSN 434
FSN 461, 462 Senior Project (3)(3) supv to (2-3)(2-3) 120 hours for Nutritional Science majors, 180 hours for Food Science majors
CHANGED COURSES (continued)

OH 126 Environmental Horticulture Construction (2) 1 lec 1 lab to 2 lab

OH 230 Ornamental Gardening (3) 2 lec 1 lab (F.2.) to Environmental Horticulture (4) 3 lec 1 lab

OH 301 Principles of Landscape Horticulture (3) 1 lec 2 lab mcf to Principles of Landscape Design (4) 2 lec 2 lab no mcf

OH 315 Advanced Plant Materials (3) 3 lec mcf to (4) 4 lec mcf

OH 325 Floriculture Grades and Standards (3) 1 lec 2 lab to 1 act 2 lab

OH 381 Native Plants for California Landscape (3) 2 lec 1 lab to (4) 3 lec 1 lab

OH 422 Advanced Arboriculture (2) 1 lec 1 lab to 2 act

OH 434 Landscape Management (3) 2 lec 1 lab mcf to (4) 3 lec 1 lab mcf

REC 101 Introduction to Recreation and Leisure Services (3) 3 lec to Introduction to Recreation, Parks and Tourism, mcf

REC 252 Leisure and Special Populations (3) 3 lec to Recreation and Special Populations (4) 3 lec 1 act

REC 302 Environmental Education (3) 2 lec 1 act to Environmental and Wilderness Education (4) 3 lec 1 act

REC 310 Program Administration in Leisure Services (4) 4 lec to REC 360 Assessment and Evaluation of Recreation Parks and Tourism 3 lec 1 lab

REC 324 Legal and Managerial Patterns in Recreation Administration (3) 3 lec to Legal and Legislative Patterns in Recreation Administration (4) 3 lec 1 lab

REC 424 Financing Recreation and Leisure Services (4) 3 lec 1 lab to Financing Recreation Services 4 lec

REC 460 Research in Recreation Administration (4) 4 sem to Research in Recreation, Parks and Tourism

REC 464 Organization and Development of Commercial Leisure Services (4) 3 lec 1 lab to REC 414

VGSC 402 Enterprise Project (2-4) (CR/NC) 1 lec, variable practicum to Enterprise Project Management
NEW COURSES

ARCH 363 Off-Campus Orientation Seminar (2)  2 sem (CR/NC) max 4 units, 2 per quarter

**ARCH 462 Topics in Architectural Practice (2)  2 sem, max 6 units**

Curriculum Committee: DISAPPROVED must be at least 4 units**

ARCH 464 Computer Applications in Design (3)  3 lec, max 12 units
ARCH 465 Design Related Media (3)  3 lec, max 12 units
ARCH 466 Topics in Architectural History and Theory (3)  3 lec, max 12 units
ARCH 467 Undergraduate Research (3)  3 lec, max 12 units
ARCH 468 Advanced Environmental Building Systems (3)  3 lec
ARCH 469 Topics in Design Methods (3)  3 lec, max 12 units

**ARCH 472 Housing Design Concepts (3)  3 lec, max 6 units**

Curriculum Committee: DISAPPROVED must be at least 4 units**

**ARCH 521 Graduate Architectural Design Project (5)  5 lab, max 15 units, mcf**

Curriculum Committee: APPROVED PENDING the retention of ARCH 481 which will be taught simultaneously with ARCH 521.**

**ARCH 592 Senior Design Thesis (3)  3 sem**

Curriculum Committee: APPROVED PENDING the retention of ARCH 492 which will be taught simultaneously with ARCH 592**

CRP 215 Planning for Multiple Publics (4)  4 lec

**EDES 406 Sustainable Environments (3)  3 lec**

Curriculum Committee: DISAPPROVED must be at least 4 units**

LA 401 Research Project (1)  1 sem CR/NC  (Note: approved for 1 year only with the understanding that it will be incorporated into a 4-unit course for 1999)
DELETED COURSES

ARCE 224 Mechanics of Structural Members Laboratory (1) 1 lab (becomes part of ARCE 223)

ARCH 312 Home and Community Design (3) 3 lec GEB F.2.
ARCH 447 Design Regulations (3) 3 lec, crosslisted with CRP 447

**ARCH 481 Senior Architectural Design Project (5) 5 lab mcf:

Curriculum Committee: DISAPPROVED. Undergraduates cannot be required to take graduate courses. ARCH 481 will be taught simultaneously with ARCH 521**

**ARCH 492 Senior Design Thesis (3) 3 sem:

Curriculum Committee: DISAPPROVED. Undergraduates cannot be required to take graduate courses. ARCH 492 will be taught simultaneously with ARCH 592**
CHANGED COURSES
ARCE 223 Mechanics of Structural Members II (3) 3 lec to (4) 3 lec 1 lab
ARCE 226 Structural Systems (3) 3 lec to Structural Systems for Architects
Arce 325 Dynamics (4) 4 lec to (3) 3 lec
Curriculum Committee: APPROVED PENDING change to 200-level course**
ARCE 412 Dynamics of Framed Structures (3) 3 lec to (2) 2 lec (Note: approved for 1 year only with the understanding that it will be incorporated into a 4-unit course for 1999)
ARCH 357 Computer Graphics in Architecture (4) 2 lec 2 lab mcf to ARCH 457
CRP 402 History of Urban Design (3) 3 lec to History of Urban Design in North America (4) 4 lec
EDES 408 Sustainable Architecture (3) 3 lec to Implementing Sustainable Principles
LA 311 History of Landscape Architecture (3) 3 lec (F.2.) to (4) 4 lec
LA 318 Applications of GIS in Natural Resources (2) 2 lab (Also listed as FNR 318) , mcf to (3) 1 lec 2 lab
LA 323 History of Twentieth Century Landscape Architecture (3) 3 lec to (4) 4 lec
NEW COURSES
None

DELETED COURSES
ACTG 302 Microcomputer Applications in Accounting
FIN 330 Real Estate Principles

CHANGED COURSES
ACTG 500, BUS 500 and MGT 500 to GSB 500 Independent Study (1–4)
ACTG, FIN, MGT, MKTG, MIS courses to BUS prefixes (see chart)
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<tr>
<th>CURRENT #</th>
<th>TITLE</th>
<th>NEW #</th>
<th>COMMENTS</th>
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<tbody>
<tr>
<td>ACTG 211</td>
<td>FINANCIAL ACTG - NONBUS MAJORS</td>
<td>BUS 212</td>
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<td>FINANCIAL ACCOUNTING</td>
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<td>MANAGERIAL ACCOUNTING</td>
<td>BUS 215</td>
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<td>ACTG 302</td>
<td>MICROCOMPUTER APPLICATIONS</td>
<td>BUS 312</td>
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<td>TAX ACCOUNTING</td>
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<td>ACTG 321,322,323</td>
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<td>BUS 321,322,323</td>
<td>INTO EXISTING BUS COURSE</td>
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<td>SPECIAL PROBLEMS</td>
<td>BUS 400</td>
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<td>ADVANCED COST</td>
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<td>TAX OF PARTNERSHIPS, ESTATES, ETC.</td>
<td>BUS 414</td>
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<td>ACTG 405</td>
<td>CORPORATE TAX</td>
<td>BUS 415</td>
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<td>VOLUNTEER INCOME TAX ASSISTANCE</td>
<td>BUS 416</td>
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<td>ACTG FOR BUSINESS COMBINATIONS</td>
<td>BUS 421</td>
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<td>ACTG FOR GOVT &amp; NOT FOR PROFITS</td>
<td>BUS 422</td>
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<td>FINANCIAL REPORTING BY PUBLIC COS.</td>
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<td>PROFESSIONAL ACCOUNTING</td>
<td>BUS 424</td>
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<td>AUDITING</td>
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<td>INTERNATIONAL ACTG</td>
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<td>ACTG 461,462</td>
<td>SENIOR PROJECT-ACTG</td>
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<td>SELECTED ADVANCE TOPICS</td>
<td>BUS 470</td>
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<td>ACTG POLICY</td>
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<td>INDIVIDUAL STUDY</td>
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<td>BUS 100</td>
<td>STUDY SKILLS</td>
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<td>LEGAL ASPECTS TECHNOLOGY</td>
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<td>REAL ESTATE PRINCIPLES</td>
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<td>COURSE DELETED</td>
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<td>FIN 342</td>
<td>FINANCIAL MANAGEMENT</td>
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<td>SECURITY ANALYSIS</td>
<td>BUS 431</td>
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<td>LAW OF REAL PROPERTY</td>
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<td>COMMERCIAL BANK MANAGEMENT</td>
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<td>COMPUTER APPLICATIONS</td>
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<td>CASE STUDIES IN FINANCE</td>
<td>BUS 443</td>
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<td>INTRO TO HUMAN RELATIONS</td>
<td>BUS 178</td>
<td>INTO EXISTING BUS COURSE</td>
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<td>PRINCIPLES OF MGT</td>
<td>BUS 271</td>
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<td>MGT 206</td>
<td>PRINCIPLES OF PURCHASING</td>
<td>BUS 276</td>
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<td>MGT 301</td>
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<td>BUS 371</td>
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<td>INDUSTRIAL MGT</td>
<td>BUS 381</td>
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<td>ORG AND MGT THEORY</td>
<td>BUS 382</td>
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<td>HUMAN RESOURCE MGT</td>
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<td>ORG BEHAVIOR</td>
<td>BUS 387</td>
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<td>INT, AND CROSS CULTURAL MGT</td>
<td>BUS 302</td>
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<td>INTERNATIONAL BUS OPERATIONS MGT</td>
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<td>BUS 471</td>
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<td>LABOR RELATIONS</td>
<td>BUS 472</td>
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<td>MGT 413</td>
<td>LABOR LAW</td>
<td>BUS 473</td>
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<td>MGT 414</td>
<td>BUS STRATEGY</td>
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<td>STAFFING ADVANCED PERSONNEL MGT</td>
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<td>MGT 416</td>
<td>EMPLOYEE TRAINING &amp; DEVELOPMENT</td>
<td>BUS 476</td>
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<td>MGT 417</td>
<td>ORG DEVELOPMENT</td>
<td>BUS 477</td>
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<td>ORGANIZATION DESIGN</td>
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<td>INTERNSHIP</td>
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<td>MGT 440</td>
<td>SERVICE OPERATIONS MANAGEMENT</td>
<td>BUS 481</td>
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<td>MGT 441</td>
<td>OPERATIONS PLANNING AND CONTROL</td>
<td>BUS 480</td>
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<td>MGT 442</td>
<td>PURCHASING AND MATERIALS MGT</td>
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<td>MGT CONSULTATION</td>
<td>BUS 483</td>
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<td>QUALITY MGT</td>
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<td>MGT INFORMATION SYSTEMS</td>
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<td>INFO MGT AND DATABASE</td>
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<td>SYSTEMS DESIGN AND IMPLEMENTATION</td>
<td>BUS 496</td>
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<td>MULTIMEDIA PRESENTATION SYSTEMS</td>
<td>BUS 497</td>
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<td>ELEMENTS OF MKTG</td>
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<td>PRINCIPLES OF MKTG</td>
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<td>MKTG 303</td>
<td>BUYER BEHAVIOR</td>
<td>BUS 348</td>
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<td>SELLING: BUILDING PARTNERSHIPS</td>
<td>BUS 349</td>
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<td>INTERNATIONAL MKTG</td>
<td>BUS 446</td>
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<td>MKTG RESEARCH II</td>
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<td>PROMOTION STRATEGIES</td>
<td>BUS 450</td>
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<td>PRODUCT MANAGEMENT</td>
<td>BUS 452</td>
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<td>BUS 453</td>
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<td>BUS 454</td>
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APPROVED AS 400 LEVEL

INTO EXISTING BUS COURSE
NEW COURSES
AERO 442 Preliminary Aircraft Design (4) 2 lec 2 lab
AERO 525 Computational Fluid Dynamics (4) 4 lec (replacing AERO 526 and AERO 527)

CE 201 Strength of Materials (5) 5 lec
CE 482 Conventional Subsurface Exploration (4) 2 lec 2 lab
CE 483 Environmental Geotechnology (4) 4 lec

CPE 100 Computer Engineering Orientation (1) 1 lec CR/NC

Curriculum Committee: APPROVED PENDING receipt of revised course proposal form with signatures***

CSC 100 Computer Science Orientation (2) 2 sem
CSC 109 Accelerated Introduction to Computer Science (5) 4 lec 1 act
CSC 142 Discrete Structures II (4) 4 lec
CSC 300 Professional Responsibilities (4) 4 lec
CSC 366 Database Modeling, Design and Implementation (4) 3 lec 1 lab
CSC 369 Introduction to Distributed Computing (4) 3 lec 1 lab
CSC 435 Introduction to Object Oriented Design Using Graphical User Interfaces (4) 3 lec 1 lab
CSC 474 Computer Animation (4) 3 lec 1 lab, mcf
CSC 475 Multimedia Tool Development (4) 3 lec 1 lab
CSC 508 Software Engineering I (4) 4 sem
CSC 509 Software Engineering II (4) 4 sem, mcf

ENVE 437 Industrial and Hazardous Waste Treatment Technologies (4) 3 lec 1 lab
ENVE 443 Bioenvironmental Engineering I (4) 3 lec 1 lab

MATE 405 Kinetics of Materials (5) 4 lec 1 lab, mcf (replacing MATE 365 (& former MATE 422))
MATE 522 Advanced Ceramics (5) 4 lec 1 sem

ME 406 Mechatronics Design (4) 3 lec 1 lab
DELETED COURSES

AERO 406 Hypersonic Flow Theory (3) 3 lec
AERO 418 Fundamentals of Flight Simulation (3) 2 lec 1 lab
AERO 432 Experimental Stress Analysis
AERO 526 Computational Fluid Dynamics I (3) 3 lec (with 527: replaced by AERO 525)
AERO 527 Computational Fluid Dynamics II (3) 2 lec 1 lab (with 526: replaced by AERO 525)
AERO 532 Advanced Composite Structures Analysis and Design
AERO 545 Non-Impulsive Orbit Design
AERO 555 Flying Qualities and Flight Test of Piloted Vehicles
AERO 590 Graduate Seminar

CPE 463 Undergraduate Seminar (1) 1 sem

CSC 112 Pascal Programming (3) 2 lec 1 act
CSC 201 Fortran Programming (3) 3 lec
CSC 207 Basic Programming (3) 3 lec
CSC 219 Linear Programming (3) 3 lec
CSC 221 Assembly Language Programming (4) 3 lec 1 lab
CSC 240 Programming Environments I (3) 3 lec
CSC 331 Numerical Linear Analysis (3) 3 lec
CSC 350 Discrete Dynamic Systems (3) 3 lec
CSC 353 Computer Systems Programming (3) 3 lec (Also listed as CPE 353)
CSC 360 Continuous Dynamic Systems (3) 3 lec
CSC 414 Authoring Languages and Systems (4) 3 lec 1 lab
CSC 415 Microcomputer Systems (4) 3 lec 1 lab (Also listed as CPE 415)
CSC 427 Computer-Based Educational Systems I (4) 3 lec 1 lab
CSC 433 Numerical Analysis III (3) 3 lec (Also listed as MATH 433)
CSC 463 Undergraduate Seminar (2) 2 act cr/nc

MATE 365 Thermodynamics and Kinetics Lab (1) 1 lab
CHANGED COURSES

AERO 121 Aerospace Fundamentals (1) 1 lab mcf to (2) 1 lec 1 lab mcf
AERO 210 History of Aviation (3) 3 lec (F.2.) to (4) 4 lec
AERO 215 Aerospace Engineering Analysis I (2) 2 lab to Introduction to Aerospace Design
AERO 303 Aerothermodynamics (3) 3 lec to (5) 5 lec
AERO 306 Aerodynamics I (3) 3 lec to Aerodynamics and Flight Performance (4) 4 lec
AERO 307 Wind Tunnel and Flight Test Laboratory (3) 1 lec 2 lab to (2) 2 lab
AERO 315 Aerospace Engineering Analysis II (3) 3 lec to Aerospace Engineering Analysis (4) 3 lec 1 lab
AERO 320 Fundamentals of Guidance and Control (3) 3 lec to (4) 3 lec 1 lab
AERO 330 Stress Analysis (4) 4 lec to Aerospace Structural Analysis 3 lec 1 lab
AERO 404 Gas Dynamics (3) 3 lec to (4) 4 lec
AERO 405 Aerodynamics II (3) 3 lec to Supersonic and Hypersonic Aerodynamics (4) 4 lec
AERO 407 Reentry Aerodynamics (3) 3 lec to (4) 4 lec
AERO 409 Flight Test (3) 1 lec 2 lab to Flight Test and Simulation (4) 2 lec 2 lab
AERO 416 Principles of Rotary Wing Flight (3) 3 lec to (4) 4 lec
AERO 430 Aerospace Structural Analysis (4) 4 lec to Advanced Composite Structures Analysis and Design, 3 lec 1 lab
AERO 443, 444, 445 Flight Vehicle Design (2) (4) (4), 443: 2 lab; 444 & 445: 2 lec 2 lab to Aircraft Vehicle Design; 443: 2 lec (444 & 445 remain 2 lec 2 lab)
AERO 451 Orbital Mechanics I (3) 3 lec to (4) 4 lec
AERO 452 Orbital Mechanics II (3) 3 lec to (4) 4 lec
AERO 500 Individual Study (1-3) supv to (1-4)
AERO 515 Continuum Mechanics (3) 3 lec to (4) 4 lec
AERO 520 Theoretical Aerodynamics (3) 3 lec to (4) 4 lec
AERO 522 Boundary-Layer Theory (3) 3 lec to (4) 4 lec
AERO 523 Turbulence (3) 3 lec to (4) 4 lec
AERO 530 Inelastic Structural Analysis (3) 3 lec to (4) 3 lec 1 lab
AERO 535 Advanced Aerospace Structural Analysis (3) 3 lec to (4) 3 lec 1 lab
CHANGED COURSES (continued)

AERO 540 Elements of Rocket Propulsion (3) 3 lec to (4) 4 lec
AERO 541 Aircraft Gas Turbine Engines (3) 3 lec to (4) 4 lec
AERO 550 Analysis and Design of Flight Control Systems (3) 2 lec 1 lab to Design of Flight Control Systems (4) 3 lec 1 lab
AERO 551 Advanced Topics in Estimation and Control (3) 2 lec 1 lab to Global Positioning Satellite Navigation Systems (4) 3 lec 1 lab
AERO 565 Advanced Topics in Aircraft Design (3) 3 lec to (4) 4 lec

CE 204 Strength of Materials (3) 3 lec to Strength of Materials I
CE 205 Strength of Materials (2) 2 lec to Strength of Materials II
CE 559 Advanced Structural Design (3) 3 lec to (4) 4 lec
CE 581 Advanced Geotechnical Engineering (3) 1 lec 2 lab to (4) 3 lec 1 lab
CE 582 Advanced Geotechnical Testing (3) 1 lec 2 lab to (4) 2 lec 2 lab
CE 583 Geotechnical Earthquake Engineering (3) 3 lec to (4) 4 lec
CE 584 Lateral Support Systems (3) 3 lec to (4) 4 lec
CE 585 Slope Stability Analysis (3) 3 lec to (4) 4 lec
CE 587 Analysis and Design of Deep Foundations (3) 3 lec to CE 586 (4) 4 lec

CPE 353 Computer Systems Programming (3) 3 lec: delete cross-listing with CSC 353 (course deleted)
CPE 404 Computer Networks I (4) 3 lec 1 lab (Also listed as CSC 404) to CPE 464
CPE 405 Computer Networks II (4) 3 lec 1 lab (Also listed as CSC 405) to CPE 465
CPE 410 Performance Analysis (4) 3 lec 1 lab (Also listed as CSC 410) to CPE 488

CSC 110 Computers and Computer Applications: MS-DOS (3) 2 lec 1 act to Computers and Computer Applications: Windows
CSC 111 requesting new mcf
CSC 118 Fundamentals of Computer Science I (4) 3 lec 1 act to CSC 101 3 lec 1 lab
CHANGED COURSES (continued)

CSC 120 Principles of Business Data Processing (4) 4 lec mcf to CSC 119
CSC 203 COBOL Programming (3) 3 lec to CSC 233
CSC 204 C and UNIX (3) 3 lec to CSC 234
CSC 209 Selected Programming Languages (3) 3 lec to CSC 239
CSC 218 Fundamentals of Computer Science II (3) 3 lec to CSC 102 (4) 3 lec 1 act
CSC 241 Advanced Topics in Unix (3) 3 lec to CSC 334 (4) 4 lec
CSC 245 Discrete Structures (3) 3 lec to CSC 141 Discrete Structures I (4) 4 lec
CSC 248 Computer System Administration (2) 2 sem to CSC 358
CSC 251 Digital Computer Applications (2) 2 act to CSC 231 Fortran for Engineering Students
CSC 255 Computer Graphics Applications (4) 3 lec 1 lab to CSC 270 2 lec 2 act
CSC 311 Numerical Engineering Analysis (4) 4 lec to CSC 341
CSC 332 Numerical Analysis I (3) 3 lec to CSC 342
CSC 333 Numerical Analysis II (3) 3 lec to CSC 343 (no longer cross-listed with MATH 333)
CSC 345 Data Structures (3) 3 lec to CSC 103 Fundamentals of Computer Science III (4) 3 lec 1 act
CSC 346 File Structures (3) 3 lec to CSC 361 (4) 4 lec
CSC 347 Introduction to Database Systems (4) 3 lec 1 lab to CSC 365
CSC 349 Theory and Analysis of Algorithms (3) 3 lec to Design and Analysis of Algorithms (4) 4 lec
CSC 351 Programming Languages I: Design (3) 3 lec to CSC 330 Programming Languages I (4) 4 lec
CSC 401 Real-Time Programming and Ada (3) 3 lec to CSC 459 Real-Time Systems (4) 3 lec 1 lab
CSC 404 Computer Networks (4) 3 lec 1 lab to CSC 464 Computer Networks I (also listed as CPE 464)
CSC 405 Computer Networks II (4) 3 lec 1 lab to CSC 465 (Also listed as CPE 465)
CSC 410 Performance Analysis (4) 3 lec 1 lab to CSC 488 (Also listed as CPE 488)
CSC 420 Artificial Intelligence I (4) 3 lec 1 lab to CSC 480 Artificial Intelligence
CSC 421 Artificial Intelligence II (4) 3 lec 1 lab to CSC 481 Knowledge Based Systems
CSC 440 Software Engineering I (3) 2 lec 1 lab mcf to CSC 205 (4) 3 lec 1 lab mcf
CSC 441 Software Engineering II (3) 2 lec 1 lab to CSC 206 (4) 3 lec 1 lab
CSC 443 Programming Environments II (4) 3 lec 1 lab to CSC 436 Graphical User Interface Systems
CHANGED COURSES (continued)

CSC 445 Theory of Computing I (3) 3 lec to Theory of Computing (4) 4 lec
CSC 447 Database Management Systems Implementation (3) 3 lec to CSC 468 (4) 3 lec 1 lab
CSC 450 Programming Languages II: Description and Analysis (4) 3 lec 1 lab to CSC 430 Programming Languages II
CSC 451 Programming Languages III: Compiler Implementation (4) 3 lec 1 lab to CSC 431 Programming Languages III
CSC 455 Computer Graphics (4) 3 lec 1 lab to CSC 471 Introduction to Computer Graphics
CSC 456 Advanced Rendering Techniques (4) 3 lec 1 lab to CSC 473
CSC 458 Computer Graphics Seminar (2) 2 sem to CSC 479
CSC 461, 462 Senior Project (2) (3) supv to CSC 491, 492
CSC 470 Selected Advanced Topics (1-3) 1-3 lec to CSC 490
CSC 484 Computer Vision (3) 3 lec to CSC 477 (4) 3 lec 1 lab
CSC 485 Cooperative Education Experience (6) supv (CR/NC) to CSC 494
CSC 501 Languages and Translators (4) 4 sem to CSC 530
CSC 502 Database Systems (4) 4 sem to CSC 560
CSC 503 Operating Systems (4) 4 sem to CSC 550
CSC 504 Computer Architecture (4) 3 sem 1 lab to CSC 520
CSC 505 Theory of Computing II (4) 4 sem to CSC 540 Theory of Computing
CSC 506 Artificial Intelligence III (4) 3 lec 1 lab to CSC 580 Artificial Intelligence
CSC 507 Computer Simulation I (4) 4 sem to CSC 587
CSC 517 Computer Simulation II (4) 3 sem 1 lab to CSC 588
CSC 527 Computer-Based Educational Systems II (3) 3 sem to CSC 583 Computer-Based Educational Systems
CSC 531 Numerical Methods I (4) 4 sem to CSC 541 Numerical Methods
CSC 585 Cooperative Education Experience (6) supv (CR/NC) to CSC 594

ENVE 331 Introduction to Environmental Engineering (3) 3 lec to (4) 4 lec
CHANGED COURSES (continued)

MATE 230 Metals (3) 3 lec to (4) 4 lec
MATE 235 Metals Laboratory (2) 2 lab to (1) 1 lab
MATE 360 Thermodynamics and Kinetics of Materials (4) 4 lec to Thermodynamics of Materials

ME 456, 457, 458 HVAC System Design (4) (4) (4) 2 lec 2 lab each to:
   ME 456 Ventilation Principles and Design (4) 3 lec 1 lab
   ME 457 Refrigeration Principles and Design (4) 3 lec 1 lab
   ME 458 Air Conditioning Principles and Design (4) 3 lec 1 lab
NEW COURSES

ANT 311 Archaeological Laboratory Methods (4) 3 lec 1 lab (replaces ANT 325)
ANT 405 Indonesia (4) 4 lec
ANT 425 Pre-Columbian Mesoamerica (4) 4 lec
ANT 435 Pacific Islands Culture (4) 4 lec

ART 316 Women as Subject and Object in Art History (4) 4 lec, cross-listed as WS 316
ART 317 Asian Art Survey (4) 4 lec (C.3.)
ART 318 Art History – Asian Art Topics: National, Religious and Intellectual Movements (4) 4 lec, (C.3.), max 8 units

New Course Prefix: CD Child Development
CD 329 Research Methods in Child Development (3) 2 lec 1 act
CD 390 Career Planning (2) 2 sem CR/NC (Also listed as PSY 390)

DANC 332 Modern Dance Repertory (2) 2 act, total credit limited to 6 units

The following English Major Core courses might be re-titled:
ENGL 201 MAJOR CORE I: Old English/Medieval (4) 4 lec
ENGL 202 MAJOR CORE II: Renaissance (4) 4 lec
ENGL 203 MAJOR CORE III: 1660–1798 (4) 4 lec
ENGL 301 MAJOR CORE IV: 1798–1865 (4) 4 lec
ENGL 302 MAJOR CORE V: 1865–1914 (4) 4 lec (re-used course number, note to dept)
ENGL 303 MAJOR CORE VI: 1914–Present (4) 4 lec
ENGL 408 Internship (2–12) supv, cr/nc
ENGL 411 Writing Interactive Documents (4) 4 lec, total credit 8 units
ENGL 525 Graduate Seminar in Creative Writing: Fiction (4) 4 sem, total credit 8 units
ENGL 526 Graduate Seminar in Creative Writing: Poetry (4) 4 sem, total credit 8 units
NEW COURSES (continued)

GEOG 360 Geography of Europe (4) 4 lec
GEOG 370 Geography of Mexico and Central America (4) 4 lec

GRC 260 Introduction to Research Methods in Graphic Communication (3) 2 lec 1 act

HIST 110 Western Civilization: Ancient to Renaissance (4) 4 lec (with HIST 111 replacing HIST 101, 102, 103 (3,3,3)
HIST 111 Western Civilization: Reformation to Twentieth Century (5) 5 lec (with HIST 110 replacing HIST 101, 102, 103 (3,3,3)
HIST 390 American Presidency (4) 4 lec (3 lectures and research project)
HIST 408 The Age of Roosevelt: Depression and World War, 1929-50 (4) 4 lec (3 lectures and research project) (with HIST 410, replacing HIST 407)
HIST 410 Recent America Since 1950: Shattering of the American Consensus (4) 4 lec (3 lectures and research project (with HIST 408, replacing HIST 407)
HIST 450 History Internship (8-12) supv, cr/nc

HUM 403 Ethical Issues in Cyberspace (3) 3 lec (C.3.)

JPNS 101, 102, 103 Elementary Japanese (4)(4)(4) 3 lec 1 act

JOUR 390 Visual Communication for the Mass Media (4) 3 lec 1 lab (replacing JOUR 223 & JOUR 434)

LS 211 The American Enterprise: The Birth of a Nation to the 1876 Centennial (5) 4 lec 1 lab (C1 (2) & D1 (3)), (new request for mcf, X211 did not have mcf)
LS 212 The American Enterprise: The 1876 Centennial fo the 21st Century (5) 4 lec 1 lab (C1 (2) & D1 (3)), (new request for mcf, X212 did not have mcf)
LS 310 Storytelling: The Oral Tradition (4) 4 lec (Also listed as SPC 310)
NEW COURSES (continued)

MU 114 Introduction to Composing (4) 3 lec 1 act
MU 308 Sound Design: Technologies (4) 3 lec 1 act
MU 335 Survey of Keyboard Literature (4) 4 lec
MU 337 Survey of Vocal Literature (4) 4 lec
MU 366 Piano Pedagogy (2) 2 act
MU 367 Vocal Pedagogy (2) 2 act
MU 412 Sound Design: Composition and Performance (4) 3 lec 1 act

POLS 422 European Politics (4) 4 lec (incorporating POLS 418)
POLS 460 Intermediate Political Analysis (4) 3 lec 1 act
POLS 560 Advanced Political Analysis (4) 3 lec 1 act

PSY 103 Pairing and Marriage (4) 4 lec (replacing HD 103 (3))
PSY 204 Tutor Training and Certification (2) 1 lec 1 act CR/NC
PSY 300 Human Development: An Ecological Perspective (4) 4 lec
PSY 306 Adolescence (4) 4 lec (Also listed as CD 306)
PSY 390 Career Planning (2) 2 sem CR/NC (Also listed as CD 390)
PSY 410 History and Systems of Psychology (4) 4 sem
PSY 430 Sensation and Perception (4) 4 lec
PSY 558 Career Counseling (4) 4 sem

WS 316 Women as Subject and Object in Art History (4) 4 lec, cross-listed as ART 316
DELETED COURSES

ANT 325 Material Culture (3) 3 lec (replaced by ANT 311)
ANT 341 Comparative Societies (3) 3 lec

ART 213 Art History - 18th and 19th Century Art (4) 4 lec
ART 426 Illustration Photography I (3) 2 lec 1 lab

ENGL 318 Writing for Scientific Journals (4) 4 lec
ENGL 362 Classics for Children and Youth (4) 4 lec
ENGL 385 Mass Media Criticism (4) 4 lec (also listed as JOUR 385 and SPC 385)
ENGL 460 Senior Project Seminar (1) 1 sem
ENGL 470 Selected Advanced Topics (1-3) 1-3 lec
ENGL 520 Problems in Secondary English (3) 3 sem

HD 103 Pairing and Marriage (3) 3 lec (replaced by PSY 103 (4))
HD 308 Adulthood (3) 3 lec

HIST 101, 102, 103 Western Civilization (3)(3)(3) 3 lec each (replaced by HIST 110, 111)
HIST 270 History through Film (3) 2 lec 1 lab
HIST 306 History of American Technology (3) 3 lec
HIST 307 History of Science (3) 3 lec
HIST 308 American Warfare (3) 3 lec
HIST 375 Urban America (3) 3 lec
HIST 384 American Labor History (3) 3 lec
HIST 386 Frontiers (3) 3 lec
HIST 406 Progressive America (3) 3 lec
HIST 407 Modern America (4) 3 lec and research project (replaced by HIST 408 & HIST 410)
JOUR 223 Photojournalism (3) 2 lec 1 lab (JOUR 223 & JOUR 434 replaced by JOUR 390)
JOUR 405 Public Affairs Reporting (4) 3 lec 1 lab (incorporated into JOUR 304)
JOUR 434 Advanced Editing (4) 3 lec 1 lab (JOUR 223 & JOUR 434 replaced by JOUR 390)
DELETED COURSES (continued)

MU 102 Acoustic Communication (3) 3 lec
MU 311 Sound Design: MIDI Systems (3) 2 lec, 1 act
MU 334 Music of the 20th Century (3) 3 lec
MU 410 Sound Design: Processing and Production (4) 4 lec

PHIL 170 Problems of Philosophy (3) 3 lec
PHIL 327 Inductive Reasoning (3) 3 lec

POLS 313 National Security Policy (3) 3 lec
POLS 415 Politics in Britain (4) 4 lec
POLS 418 Russian Politics (3) 3 lec
POLS 485 Cooperative Education Experience (6) CR/NC supv
POLS 590 Seminar in Political Science (3) 3 sem

PSY 327 Human Dimensions of Leisure (3) 3 lec (Also listed as REC 327)

SOC 302 Social Welfare Institutions (4) 4 lec
SOC 308 Revolutions and Collective Violence (3) 3 lec (Also listed as POLS 308)
SOC 326 Sociology of Aging (3) 3 lec
SOC 333 Social Research Methods I (3) lec
SOC 344 Sociology of Poverty (3) 3 lec
SOCS 366 Research and Writing Seminar in Social Sciences (3) 3 sem
SOCS 424 Organizing and Teaching Social Sciences (3) 3 lec
SOCS 463 Undergraduate Seminar (3) 3 sem

SPC 101 Introduction to Speech Communication (1) 1 lec cr/nc
SPC 300 Voice and Phonetics (4) 4 lec
SPC 302 Introduction to Communicative Disorders (4) 4 lec
SPC 303 Development of Speech and Language (3) 3 lec
CHANGED COURSES

ANT 202 World Prehistory (3) 3 lec to (4) 4 lec
ANT 203 Biological Anthropology (3) 3 lec to (4) 4 lec
ANT 310 California Archeology (3) 2 lec 1 lab to Archeological Field Methods (4) 3 lec 1 lab
ANT 333 Language and Cultures (3) 3 lec to ANT 433 (4) 4 lec
ANT 401 Culture and Health (3) 3 lec to (4) 4 lec
ANT 415 Native American Cultures (3) lec USCP to (4) lec
ANT 420 Developmental Anthropology (3) 3 lec to (4) 4 lec
ANT 444 Sex, Death and Human Nature (3) 3 lec to (4) 4 lec
ANT 450 Area Studies (3) 3 lec to (4) 4 lec
ANT 470 Selected Advanced Topics (1-3) 1-3 lec to (1-4) 1-4 lec, total units: 8

ART 224 Introduction to Artificial Lighting (3) 2 lec 1 lab to Introduction to Artificial Lighting for Photography
ART 231 Computer Imaging and Design (3) 2 lec 1 lab mcf to ART 181
ART 304 Advanced Watercolor (3) 3 act to Intermediate Watercolor
ART 321 Photographic Expression: B/W (4) 2 lec 2 lab to ART 324
ART 313 Design History (3) 3 lec to (4) 4 lec
ART 407 Illustration (3) 3 act to ART 408
ART 424 Video and Multimedia Production (4) 2 lec 2 lab to ART 483 (4) 2 lec 2 lab
ART 427 Illustration Photography II (3) 2 lec 1 lab to Illustration Photography
ART 461 Senior Project (3) to (2)
ART 462 Senior Portfolio Project (1) 1 act to (2)
ART 464 Graphics and Animation Techniques for Microcomputers (3) 3 lec to ART 484 Animation and Interactive Design 2 lec 1 lab
ART 466 Advanced Digital Image Making (3) 2 lec 1 lab to ART 486
ART 467 Designing for the World Wide Web (3) 2 lec 1 lab to ART 487
CHANGED COURSES (continued)

ENGL 302 Writing: Advanced Composition (4) 4 lec to ENGL 315
ENGL 311 Advanced Professional Writing (4) 4 lec to ENGL 318
ENGL 325 Creative Writing (4) 4 lec, max 8 units, to
  ENGL 325 Creative Writing: Fiction (4) 4 lec, max of 8 units,
  ENGL 326 Creative Writing: Poetry (4) 4 lec, max of 8 units, re-used number
  and ENGL 327 Creative Writing: Drama (4) 4 lec, max of 8 units
ENGL 326 Literary Criticism (4) 4 lec to ENGL 328
ENGL 339 Introduction to Shakespeare (3) 3 lec (C.3.) to (4) 4 lec
ENGL 353 Modern Drama in London (4) 3 lec 1 act (C.3.) to Drama in London
ENGL 355 The Bible as Literature (3) 3 lec to (4) 4 lec
ENGL 390 Modern English Grammar (4) 4 lec to The Linguistic Structure of Modern English
ENGL 391 Topics in Applied Linguistics (4) 4 lec: Repeatable to 8 units
ENGL 415 Advanced Creative Writing (4) 4 lec, max 8 units to
  ENGL 425 Advanced Creative Writing: Fiction (4) 4 lec, max 8 units
  ENGL 426 Advanced Creative Writing: Poetry (4) 4 lec, max 8 units
  and ENGL 427 Advanced Creative Writing: Drama (4) 4 lec, max 8 units
ENGL 421 Writing in Secondary Schools (4) 4 lec to ENGL 423
ENGL 424 Organizing and Teaching English (4) 4 lec to Teaching English in Secondary Schools
ENGL 439 Significant British Writers (4) 4 sem, total credit limited to 8 units to repeatable to 12 units
ENGL 449 Significant American Writers (4) 4 sem, total credit limited to 8 units to repeatable to 12 units
ENGL 450 Computer Resources for English Teachers (4) 3 sem 1 lab to ENGL 470
ENGL 459 Significant World Writers (4) 4 sem, total credit limited to 8 units to repeatable to 12 units
ENGL 461 Senior Project (3) supv to (1) supv
ENGL 495 Applied Language Study (4) 4 sem, total credit limited to 8 units to Topics in Applied Language Study, repeatable to 12 units
ENGL 496 Cooperative Education Experience (12) supv, cr/nc to ENGL 486
CHANGED COURSES (continued)

ENGL 502 Seminar in Critical Analysis (4) 4 sem, limited to 12 units, to: repeatable to 8 units
ENGL 503 Seminar in English Linguistics (4) 4 sem to Graduate Introduction to Linguistics, and remove repeatability to 12 units
ENGL 504 Seminar in Applied English Linguistics (4) 4 sem to Seminar in English Linguistics
ENGL 505 Seminar in Composition Theory (4) 4 sem: remove repeatability to 12 units
ENGL 510 Seminar in Authors (4) 4 sem, limited to 12 units, to: repeatable to 16 units
ENGL 511 Seminar in American Literary Periods (4) 4 sem, limited to 12 units, to: repeatable to 20 units
ENGL 512 Seminar in British Literary Periods (4) 4 sem, limited to 12 units, to: repeatable to 20 units
ENGL 513 Seminar in Special Topics (4) 4 sem, limited to 12 units, to: repeatable to 16 units

ES 114 Racism in American Culture (3) 3 lec USCP to (4) 4 lec
ES 230 Chicano/a Literature (3) 3 lec USCP to ES 300 (4) 4 lec, USCP, GEB C.3.
ES 320 American Cultural Images: African Americans, Asian Americans, Mexican Americans (3) 3 lec, USCP to GEB D.4.a.

GEOG 215 Human Impact on the Earth (3) lec to GEOG 333 (4) 4 lec
GEOG 250 Physical Geography (3) 3 lec to (4) 4 lec
GEOG 305 Political Geography (3) 3 lec to (4) 4 lec
GEOG 310 Urban Geography (3) 3 lec to (4) 4 lec
GEOG 315 Geography of Resource Utilization (3) 3 lec to (4) 4 lec
GEOG 325 Climate and Humanity (3) 3 lec to (4) 4 lec
GEOG 340 Geography of California (3) 3 lec to (4) 4 lec
GEOG 350 Geography of the United States (3) 3 lec to (4) 4 lec
GEOG 401 Area Geography (3) 3 lec to (4) 4 lec
GEOG 470 Selected Advanced Topics (1-3) 1-3 lec to (1-4) 1-4 lec, total units: 12
CHANGED COURSES (continued)

GRC 210 Implementing Quality Management in the Graphic Arts (4) 4 lec to 3 lec 1 act
GRC 300 Typography (4) 2 lec 2 lab to 3 lec 1 lab
GRC 322 Advanced Typography (2) 1 lec 1 lab mcf to 3 lec 1 lab
GRC 327 Graphic Arts Photography (3) 2 lec 1 lab mcf to GRC 202
GRC 401 Printing Marketing and Sales (3) 2 lec 1 lab to (4) 3 lec 1 lab
GRC 411 Pricing, Costing and Web Estimating (3) 3 lec to (4) 3 lec 1 act
GRC 414 Electronic Image Assembly (3) 2 lec 1 lab mcf to GRC 203 Electronic Prepress (4) 3 lec 1 lab
GRC 438 Electronic Art Preparation (4) 2 lec 1 lab mcf to 3 lec 1 lab

Change HD courses to CD (Child Development)
HD 102 Human Development: Introduction to Issues and Applications (3) 3 lec to CD 102 Orientation to Child Development (4) 4 lec
HD 128 Program Planning for Infants and Toddlers (3) 3 act to CD 128 Nurturing Relationships
HD 200 Special Problems for Undergraduates (1-3) supv to CD 200 (1-4)
HD 203 Family Development (3) 3 lec to CD 203 (4) 4 lec
HD 209 Early Development: Conception through Childhood (5) 5 lec to CD 209 (4) 4 lec
HD 306 Adolescence (3) 3 lec to CD 306 (4) 4 lec
HD 309 Early Childhood Learning: Applications for the Sensorimotor Period (3) 3 lec to CD 309 Learning, Development and Technology I (4) 4 lec
HD 310 Early Childhood Learning: Applications for the Preoperational Period (5) 5 act to CD 310 Learning, Development and Technology II (4) 4 act
HD 311 Early Childhood Learning: Applications for the Transitional Period (5) 5 act to CD 311 Learning, Development and Technology III (4) 4 act
HD 324 Guiding Young Children (4) 4 lec to CD 324 Guiding Children and Adolescents
HD 400 (1-3) supv (max of 3 units/qtr) to CD 400 (1-4) (max of 4 units/qtr)
HD 430 Advanced Internship (6) (CR/NC) supv to CD 430 (4)
HD 461 Senior Project (2) supv to CD 461 Senior Project Seminar (2) 2 sem
HD 470 Selected Advanced Topics (1-3) 1-3 lec to CD 470 (1-4) 1-4 lec
CHANGED COURSES (continued)

HIST 343 Greece and Rome (3) 3 lec to Ancient Greece and Rome (4) 4 lec (3 lec and research project)
HIST 346 Medieval Europe (3) 3 lec to (4) 4 lec (3 lec and research project)
HIST 347 Renaissance and Reformation (3) 3 lec to Renaissance and Reformation Europe (4) 4 lec (3 lec
and research project)
HIST 348 Religious Wars and Absolutism (3) 3 lec to (4) 4 lec (3 lec and research project)
HIST 440 Topics & Issues in the History of U.S. (3) 3 lec to (4) 4 lec (3 lec and research project),
(max of 8 units)
HIST 441 Topics and Issues in European History (3) 3 lec to (4) 4 lec (3 lec and research project),
(max of 8 units)
HIST 442 Topics and Issues in Latin American History (3) 3 lec to (4) 4 lec (3 lec and research project),
(max of 8 units)
HIST 443 Topics and Issues in Asian History (3) 3 lec to (4) 4 lec (3 lec and research project), (max of 8
units)
HIST 444 Topics and Issues in African History (3) 3 lec to (4) 4 lec (3 lec and research project), (max of
8 units)
HIST 445 Topics and Issues in Comparative History (3) 3 lec to (4) 4 lec (3 lec and research project),
(max of 8 units)

JOUR 201 Journalism History (3) 3 lec to (4) 4 lec
JOUR 205 Agricultural Communications (3) 3 lec to (4) 3 lec 1 act
JOUR 290 Multicultural Journalism (3) 3 lec, USCP to (4) 4 lec
JOUR 331 Contemporary Advertising (3) 3 lec to Contemporary Advertising (4) 4 lec
JOUR 346 Broadcast Announcing (3) 2 lec 1 lab to Broadcast Announcing and Production (4) 3 lec 1 act
JOUR 385 Mass Media Criticism delete x-listing with ENGL 385; keep xlisting with SPC 385
JOUR 407 Feature Writing (3) 3 lec to (4) 4 lec
CHANGED COURSES (continued)

MU 100 Music Fundamentals (3) 3 lec to (4) 3 lec, 1 act
MU 101 Introduction to Music Theory (3) 3 lec (C.2.) to (4) 3 lec, 1 act
MU 103 Music Theory I (3) 3 lec to (4) 4 lec
MU 121 Intro to World Music (3) 3 lec to Introduction to Non-Western Musics (4) 3 lec, 1 act
MU 154 Beginning Voice (1) 1 act to (2) 1 lec, 1 act (change max repeat from 3 to 2; not repeatable)
MU 206 (3) 3 lec Jazz & Popular Music Arranging to MU 351 (2) 2 act
MU 207 Music Theory II (3) 3 lec to (4) 4 lec
MU 221 Jazz Styles (3) 3 lec (C.2.) to (4) 3 lec, 1 act
MU 222 History and Theory of Jazz (3) 3 lec to MU 336 Jazz History and Theory (4) 4 lec
MU 301 Counterpoint (3) 3 lec to (4) 4 lec
MU 309 Music Theory III (3) 3 lec to (4) 4 lec
MU 310 Sound Design: Recording (3) 2 lec, 1 act to (4) 3 lec, 1 act
MU 320 Music Research and Writing (3) 3 lec to (4) 4 lec
MU 324 Music and Society (3) 3 lec (C.3.) to (4) 3 lec, 1 act
MU 325 America's Music (3) 3 lec (USCP) to (4) 4 lec
MU 326 Cultural Concepts and Structures in Music (3) 3 lec to (4) 3 lec, 1 act
MU 328 Women in Music (3) 3 lec (C.3.) to (4) 4 lec
MU 329 Music of the 60s: War and Peace (3) 3 lec (C.3.)(USCP) to (4) 4 lec
MU 331 Music of the Middle Ages and Renaissance (3) 3 lec to MU 321 Music History I (4) 4 lec
MU 332 Music of the Baroque and Early Classic (3) 3 lec to MU 322 Music History II (4) 4 lec
MU 333 Music of the Classic and Romantic (3) 3 lec to MU 323 Music History III (4) 4 lec
MU 340 Conducting (3) 2 lec, 1 act to Conducting: Fundamentals (2) 2 act
MU 341 Choral Conducting (3) 2 lec, 1 act to Conducting: Choral (2) 2 act
MU 342 Instrumental Conducting (3) 2 lec, 1 act to Conducting: Instrumental (2) 2 act
MU 360 Music for Classroom Teachers (3) 3 lec to (4) 3 lec, 1 act
MU 365 Music in the Elementary School (3) 2 lec, 1 act to (4) 3 lec, 1 act
MU 401 Contemporary Music Theory (3) 3 lec to (4) 4 lec
CHANGED COURSES (continued)

MU 402 Orchestration (3) 3 lec to MU 352 (4) 3 lec, 1 act
MU 404 Composition (3) 3 lec to (2) 2 act, total credit limited to 6 units
MU 411 Sound Design: Synthesis (4) 4 lec to (4) 3 lec, 1 act, not repeatable
MU 420 Music History: Selected Topics (3) 3 lec to (4) 3 lec, 1 act, repeatable to 8 units
MU 465 Choral Literature and Rehearsal Techniques (3) 2 sem, 1 act to (4) 3 lec, 1 act
MU 466 Instrumental Literature and Rehearsal Techniques (3) 2 sem, 1 act to (4) 3 lec, 1 act

PHIL 225 Symbolic Logic (3) 3 lec to (4) 4 lec
PHIL 322 Philosophy of Cognitive Science (3) 3 lec to PHIL 422 Philosophy of Mind (4) 4 lec

POLS 100 Political Inquiry (4) 4 lec to POLS 180
POLS 105 Introduction to International Relations (4) 4 lec to POLS 225
POLS 204 Basic Concepts of Political Thought (4) 4 lec to POLS 230
POLS 210 American and California Government (3) 3 lec (GEB D.1.) to POLS 110
POLS 250 Model United Nations (2) 2 lec CR/NC to POLS 285
POLS 301 California State/Local Politics (3) 3 lec to POLS 375 (4) 4 lec
POLS 303 Minority Group Politics (3) 3 lec USCP to POLS 310 Politics of Ethnicity and Gender (4) 4 lec USCP
POLS 304 Politics of Global Survival (4) 4 lec to POLS 320
POLS 305 Political Analysis (4) 3 lec 1 act to POLS 360
POLS 306 Modern Political Thought (3) 3 lec to POLS 330 (4) 4 lec
POLS 307 American Political Thought (3) 3 lec to POLS 337 (4) 4 lec
POLS 308 Revolutions/Collective Violence (3) 3 lec (Also listed as SOC 308) to (4) 4 lec (no longer cross-listed: SOC 308 deleted)
POLS 311 Inter-American Relations (3) 3 lec to POLS 327 (4) 4 lec
POLS 312 International Politics (3) 3 lec to POLS 324 (4) 4 lec
POLS 314 Public Administration (4) 4 lec to POLS 351
POLS 321 American Constitutional Law (4) 4 lec to POLS 341
CHANGED COURSES (continued)

POLS 322 Civil Liberties (4) 4 lec to POLS 344
POLS 323 Civil Rights in America (4) 4 lec (USCP) to POLS 343
POLS 331 Political Parties and Interest Groups (3) 3 lec to POLS 316 (4) 4 lec
POLS 332 Public Opinion and Political Participation (3) 3 lec to POLS 317 (4) 4 lec
POLS 335 Legislative Process (4) 4 lec to POLS 319
POLS 336 Judicial Process (4) 4 lec to POLS 345
POLS 340 Government Internship (2-12) supv CR/NC to POLS 386
POLS 342 The American Presidency (3) 3 lec to POLS 315 (4) 4 lec
POLS 350 Advanced Model United Nations (2) 2 lec to POLS 385
POLS 370 Contemporary Global Political Issues (3) 3 lec (GEB D.4.b.) to POLS 325
POLS 371 World Food Politics (3) 3 lec (GEB D.4.b.) to POLS 326
POLS 380 Political Behavior (4) 4 lec to POLS 318
POLS 382 Comparative Politics (4) 4 lec to POLS 329
POLS 384 Politics of Developing Areas (3) 3 lec to POLS 328 (4) 4 lec
POLS 401 State and Local Government (4) 4 lec to POLS 472
POLS 403 Municipal Government (4) 4 lec to POLS 471
POLS 404 Science, Technology and Public Policy (4) 4 lec to POLS 451
POLS 405 Politics of Finance and Planning (3) 3 lec to POLS 452 (4) 4 lec
POLS 411 Contemporary U.S. Foreign Policy (3) 3 lec to POLS 420 (4) 4 lec
POLS 417 Asian Politics (3) 3 lec to POLS 421 (4) 4 lec
POLS 425 Public Policy Analysis (4) 4 lec to POLS 455
POLS 441 Administrative Theory and Behavior (4) 4 lec to POLS 453
POLS 442 Public Personnel Administration (4) 4 lec to POLS 454
POLS 450 Community Research Seminar (2) 1 sem 1 act to POLS 484
POLS 463 Undergraduate Seminar (3) 3 sem to POLS 481 (4) 4 sem
POLS 465 Middle Eastern Politics (4) 4 lec to POLS 423
POLS 468 African Politics (4) 4 lec to POLS 424
POLS 510 Administration in Developing Nations (4) 4 sem to POLS 550
CHANGED COURSES (continued)

PSY 200 Special Problems for Undergraduates (1-3) supv to (1-4), total credit limited to 4 units
PSY 301 Psychology of Personal Development (3) 3 lec to (4) 4 lec
PSY 302 Behavior in Organizations (3) 3 lec to (4) 4 lec
PSY 303 Family Interaction (3) 3 lec to (4) 4 lec
PSY 309 Psychology of Consciousness (3) 3 lec to (4) 4 lec
PSY 310 Death and Mourning (3) 3 lec to Psychology of Death (4) 4 lec
PSY 311 Environmental Psychology (3) 3 lec to (4) 4 lec
PSY 314 Psychology of Women (3) 3 lec to (4) 4 lec
PSY 315 Psychology of Men (3) 3 lec to (4) 4 lec
PSY 317 Psychology of Stress (3) 3 lec mcf to (4) 4 lec
PSY 318 Psychology of Aging (3) 3 lec to (4) 4 lec
PSY 319 Motivation (3) 3 lec to Motivation and Emotion (4) 4 lec
PSY 330 Behavioral Effects of Psychoactive Drugs (3) 3 lec to (4) 4 lec
PSY 400 Special Problems for Advanced Undergraduates (1-3) supv, total credit limited to 6, max of
3/qtr to (1-4), total credit limited to 4
PSY 413 Parent-Child Relationships (3) 3 lec to (4) 4 lec
PSY 419 Development of Self and Identity (3) 3 sem to Self and Identity (4) 4 sem
PSY 420 Social and Emotional Development (3) 3 sem to (4) 4 sem
PSY 421 Cognitive Development (3) 3 sem to (4) 4 sem
PSY 422 Lifespan Sexuality (3) 3 lec to (4) 4 lec
PSY 432 Psychological Testing (3) 3 lec to (4) 4 lec
PSY 450 Family Therapy and Crisis Intervention (4) 4 lec to Family Intervention
PSY 456 Behavioral Disorders in Childhood (3) 3 sem to (4) 4 sem
PSY 457 Memory and Cognition (3) 3 lec to PSY 307 (4) 4 lec
PSY 458 Learning (3) 3 sem to (4) 4 sem
PSY 459 Lifespan Theories (3) 3 sem to (4) 4 sem
PSY 460 Child Abuse and Neglect (3) 3 sem to (4) 4 sem
PSY 465 Cross-Cultural Issues in Psychology (3) 3 sem to (4) 4 sem (No “Class Schedule. list topics”)
PSY 470 Selected Advanced Topics (1-3) 1-3 lec to (4) 4 sem, total credit limited to 8 units
PSY 494 Psychology of Technological Change (3) 3 sem to (4) 4 sem
PSY 504 Psychoneurology and Pharmacology (3) 3 sem to Neuropsychology and Psychopharmacology (4) 4 sem
PSY 560 Counseling Theories and Assessment (4) 3 sem 1 act (Also listed as EDUC 560) to Individual Therapy: Theory and Application (no longer cross-listed)
PSY 564 Ethics and the Law: MFC Counseling (3) 3 sem to (4) 4 sem
PSY 566 Group Therapy (3) 2 sem 1 act to Group Therapy: Theory and Application (4) 2 sem 2 act
PSY 568 Advanced Psychotherapies (3) 3 sem to (4) 4 sem, total credit limited to 12 units
PSY 569 Counseling Clinic Practicum (6) supv CR/NC to (3), total credit limited to 12 units
PSY 570 Selected Topics in Psychology and Human Development (3) 3 sem to (4) 3 sem 1 act, total credit limited to 8 units
PSY 571 Advanced Marital and Family Therapy (4) 3 sem 1 act to Family Therapy: Theory and Application
PSY 572 Child and Adolescent Therapy (4) 3 sem 1 act to Child and Adolescent Therapy: Theory and Application
PSY 573 Field Experience: Counseling (6) supv, change to “total credit limited to 12 units”
PSY 574 Applied Psychological Testing (3) 3 sem to (4) 4 sem
PSY 575 Sexual Dysfunction Therapy (3) 3 sem to Gender, Couple and Sexual Dysfunction Therapy (4) 4 sem
PSY 576 Field Experience: Marital and Family Counseling (6) supv to (4), total credit limited to 16 units
PSY 599 Thesis or Project (3) supv to Thesis (4)

SOC 106 Social Problems (3) 3 lec to (4) 4 lec
SOC 301 Social Work and Social Welfare Institutions (3) 3 lec to (4) 4 lec
SOC 305 Sociology of Social Movements (3) 3 lec to (4) 4 lec
SOC 306 Sociology of the Family (3) 3 lec to (4) 4 lec
SOC 310 Self, Organizations and Society (3) 3 lec to (4) 4 lec
SOC 311 Sociology of Gender (3) 3 lec to (4) 4 lec
SOC 313 Urban Sociology (3) 3 lec to (4) 4 lec
SOC 316 American Ethnic Minorities USCP (3) 3 lec to (4) 4 lec
CHANGED COURSES (continued)
SOC 323 Social Stratification (3) 3 lec to (4) 4 lec
SOC 330 Social Change (3) 3 lec to (4) 4 lec
SOC 334 Social Research Methods II (3) 2 lec 1 lab to Social Research Methods
SOC 350 Social Organization of Modern Japan (3) 3 lec to (4) 4 lec
SOC 351 Women in East Asia (3) lec to (4) 4 sem
SOC 395 Sociology of Complex Organizations (3) 3 lec to (4) 4 lec
SOC 402 Crime and Delinquency (3) 3 lec to (4) 4 lec
SOC 412 Criminal Justice (3) 3 lec to (4) 4 lec
SOC 413 Methods of Social Work (3) 3 sem to (4) 4 sem
SOC 421 Social Theory (3) 3 lec to (4) 4 lec
SOC 431 Population Problems (3) 3 lec to (4) 4 lec
SOC 470 Selected Advanced Topics (1-3) 1-3 lec to (1-4) 1-4 lec, total credit limited to 8 units

SOCS 440 Internship (3-6) supv to (4-8), total credit limited to 18 units

SPAN 121, 122 Intermediate Spanish (4) (4) 3 lec 1 act to Fundamentals of Spanish
SPAN 204 Intensive Intermediate Spanish (8) 6 lec 2 act to Intensive Fundamentals of Spanish
SPAN 233 Critical Reading in Hispanic Literature (4) 4 lec to Introduction to Hispanic Readings
SPAN 301 Advanced Spanish Composition and Grammar (4) 4 lec to Advanced Composition in Spanish

SPC 310 Storytelling: The Oral Tradition (4) 4 lec; Cross-list with LS 310 (new)
SPC 385 Mass Media Criticism (4) 4 lec; delete crosslisting with ENGL 385; keep x-listing w/JOUR 385

WS 401 Seminar in Women’s Studies (3) 3 sem to (4) 4 sem (3 sem and research project); repeat up to 8 units
NEW COURSES

BACT 404  Microbial Diversity and Evolution (4) 3 lec 1 lab
BACT 436  Microbial Ecology (5) 3 lec 2 lab

BIO 207 Resource Survey (3) 2 lec 1 lab (replacing CONS 207)
BIO 227  Wildlife Conservation Biology (4) 4 lec (B.1.b.) (with BIO 228; replacing CONS 120 and CONS 210)
BIO 228  Wildlife Biology Laboratory (1) 1 lab (B.1.b.) (with BIO 227; replacing CONS 120 and CONS 210)
BIO 327  Wildlife Biology Methods (5) 3 lec 2 lab (replacing CONS 221 and CONS 431)
BIO 427  Wildlife Management (4) 3 lec 1 lab (replacing CONS 427 and CONS 431)
BIO 438  Aquaculture (4) 3 lec 1 lab (replacing CONS 433)
BIO 444  Population Ecology (3) 3 lec (replacing CONS 426)
BIO 575  College Teaching Practicum (4) 4 act total credit: 8 units CR/NC

CHEM 110 World of Chemistry – Essentials (4) 3 lec 1 lab (B.1.a.)
CHEM 111 Survey of Chemistry (5) 4 lec 1 lab (B.1.a.) (replacing CHEM 121 and CHEM 122)
CHEM 337 Clinical Chemistry I (2) 2 lec (B.1.a.) (with CHEM 338, replacing CHEM 335 (B.1.a.))
CHEM 338 Clinical Chemistry I Laboratory (1) 1 lab (B.1.a.), cr/nc (with CHEM 337, replacing CHEM 335 (B.1.a.))
CHEM 353 Physical Chemistry III (3) 3 lec (B.1.a.) (with CHEM 357, replacing CHEM 307 Physical Chemistry (4) 3 lec 1 lab (B.1.a.)
CHEM 354 Physical Chemistry Laboratory (2) 2 lab (replacing CHEM 355 (B.1.a.), 356 (and 3027))
CHEM 357 Physical Chemistry Laboratory (1) 1 lab (with CHEM 353, replacing CHEM 307)
CHEM 405 Advanced Physical Chemistry (3) 3 lec, max 6 units credit
CHEM 437 Clinical Chemistry II (3) 3 lec (with CHEM 438, replacing CHEM 336)
CHEM 438 Clinical Chemistry II Laboratory (1) 1 lab CR/NC (with CHEM 437, replacing CHEM 336)
CHEM 465 College Teaching Practicum (1–2) supv CR/NC, max 4 units
NEW COURSES

New Course Prefix: KINE -- Kinesiology

KINE 255 Personal Health: A Multicultural Approach (4) 3 lec 1 rec USCP, E.2.
KINE 317 Computer Applications in Kinesiology (3) 1 lec 2 lab
KINE 443 Comprehensive School Health Education (4) 4 lec

PEW 189 Soccer (2)

SCM 451 Ethics in the Sciences (3) 3 sem

STAT 221 Introduction to Probability and Statistics (5) 5 lec (B.2.) (replacing STAT 210 (3) or STAT 211 (3), and STAT 212 (3))

STAT 542 Statistical Methods for Engineers (3) 3 lec
DELETED COURSES

BACT 403 General Virology Laboratory (2) 2 lab

CHEM 121 General Chemistry (with CHEM 122 replaced by CHEM 111)
CHEM 122 General Chemistry (with CHEM 121 replaced by CHEM 111)
CHEM 307 Physical Chemistry (4) 3 lec 1 lab (B.l.a.) (replaced by CHEM 353 (3) 3 lec and CHEM 357 (1) 1 lab)
CHEM 335 Clinical Chemistry (B.l.a.) (replaced by CHEM 337 (B.l.a.) and CHEM 338, B.l.a.)
CHEM 336 Clinical Chemistry (4) 3 lec 1 lab (B.l.a.) (replaced by CHEM 437 (B.l.a.) and CHEM 438 (B.l.a.)
CHEM 344 Chemical Process Principles(3) 3 lec (B.l.a.)
CHEM 355 Physical Chemistry Laboratory (1) 1 lab (B.l.a.) (with CHEM 356 (B.l.a.) (and 302?) (B.l.a.), replaced by CHEM 354, no GEB proposed)
CHEM 356 Physical Chemistry Laboratory (1) 1 lab (B.l.a.) (with CHEM 355 and 302?), replaced by CHEM 354)
CHEM 435 Food Analysis (4) 3 lec 1 lab
CHEM 436 Agricultural Chemicals (4) 3 lec 1 lab

All CONS courses being deleted/replaced:
CONS 120 Fisheries and Wildlife Management (3) 3 lec (with CONS 210 (3): replaced by BIO 227, 228 (4)(1))
CONS 207 Resource Survey (3) 2 lec 1 lab (replaced by BIO 207)
CONS 210 Biology and Conservation of Endangered Species (3) 3 lec (with CONS 120 (3): replaced by BIO 227, 228 (4)(1))
CONS 221 Wildlife Techniques (3) 2 lec 1 lab (with CONS 431 (4): replaced by BIO 327 (5))
CONS 311 Introductory Conservation (3) 3 lec (added to BIO 301)
CONS 320 Fishery Resource Management (4) 3 lec 1 lab (replaced by ZOO 320 (4))
CONS 422 Freshwater Fisheries (4) 3 lec 1 lab (replaced by ZOO 423 (4))
CONS 426 Population Dynamics (3) 3 lec (replaced by BIO 444 (3))
CONS 427 Habitat Management (4) 3 lec 1 lab (with CONS 431: replaced by BIO 427 (4))
CONS 431 Game Management (4) 3 lec 1 lab (with CONS 221 (3): replaced by BIO 327 (5) and with CONS 427 (4): replaced by BIO 427 (4))
CONS 433 Aquaculture (4) 3 lec 1 lab (replaced by BIO 438 (4))

MATH 205 Programmable Calculators in Calculus and Linear Algebra (4) 4 lec
MATH 222 Mathematical Analysis for Economics and Business (4) 4 lec (B.2.)

PE 318 Measurement and Evaluation I (3) 3 lec
PE 350 Computer Applications in Teaching Physical Education (3) 1 lec 2 act
PE 412 Contemporary Issues in Sport (3) 3 lec
PE 474 History and Philosophy of Human Movement and Sport (3) 3 lec

STAT 210 Elementary Probability and Statistics (3) 2 lec 1 act (B.2.) (STAT 210 or STAT 211 plus STAT 212: replaced by STAT 221)
NOTE: STAT 211 Elementary Probability and Statistics (3) 3 lec (B.2.): DO NOT DELETE: STAT 211, 212 remain in 1998 catalog; will be deleted for 1999
STAT 415 Nonparametric Methods in Statistics (3) 3 lec

ZOO 237 Human Anatomy (3) 2 lec 1 lab
ZOO 238, 239 Human Physiology I, II (3)(3) 2 lec 1 lab (B.1.b.) (replaced by ZOO 240, 241)
CHANGED COURSES

BACT 322 Dairy Microbiology (4) 2 lec 2 lab (B.1.b.) to BACT 422 (Also listed as DSCI 444) (not B.1.b.) note to depts - need same course number
BACT 402 General Virology (3) 3 lec to (5) 5 lec

BIO 301 Human Ecology (3) 3 lec (B1b) to Conservation and Environmental Science (4) 4 lec (B1b)
BIO 351 Principles of Genetics (5) 5 lec, add GEB B.1.b.
BIO 352 Cell Biology (4) 4 lec, add GEB B.1.b.
BIO 353 Cell Biology Laboratory (2) 2 lab, add GEB B.1.b.
BIO 414 Evolution (3) 3 lec to (4) 3 lec 1 act
BIO 415 Biogeography (3) 3 lec to (4) 4 lec
BIO 437 Marine Resources (3) 3 lec to (4) 3 lec 1 lab
BIO 501 Cellular Biology (3) 2 sem 1 act to (4) 3 lec 1 lab
BIO 502 Biology of Organisms (3) 2 sem 1 act to (4) 3 lec 1 lab
BIO 503 Population Biology (3) 2 sem 1 act to (4) 3 lec 1 lab

BOT 443 Systematic Botany (3) 2 lec 1 lab to (4) 3 lec 1 lab
BOT 450 Plant Cell and Tissue Culture (5) 3 lec 2 lab to Plant Biotechnology

CHEM 124 General Chemistry (4) 3 lec 1 lab (B.1.a.) to General Chemistry for the Engineering Discipline
CHEM 125 General Chemistry (4) 3 lec 1 lab (B.1.a.) to General Chemistry for the Engineering Discipline
CHEM 253 Chemical Literature (2) 1 lec 1 act to CHEM 359 (2) 1 lec 1 lab
CHEM 301 Biophysical Chemistry (3) 3 lec (B.1.a.) to CHEM 351 Physical Chemistry I (3) 3 lec
CHEM 302 Biophysical Chem (4) 3 lec 1 lab (B1a) to CHEM 352 Physical Chemistry II (3) 3 lec (B1a)
CHEM 316 Organic Chemistry (4) 3 lec 1 lab (B.1.a.) to CHEM 216 (B.1.a.)
CHEM 317 Organic Chemistry (4) 3 lec 1 lab (B.1.a.) to CHEM 217 (5) 3 lec 2 lab
CHANGED COURSES (continued)

CHEM 326 Survey of Organic Chemistry (4) 3 lec 1 lab (B.l.a.) to CHEM 212 Survey of Organic Chemistry (5) 4 lec 1 lab (B.l.a.)
CHEM 328 Survey of Biochemistry (4) 3 lec 1 lab (B.l.a.) to CHEM 313 Survey of Biochemistry and Biotechnology (5) 4 lec 1 lab (B.l.a.)
CHEM 331 Quantitative Analysis (5) 3 lec 2 lab (B.l.a.) to CHEM 231 (B.l.a.)
CHEM 371 Biochemical Principles (4) 3 lec 1 lab (B.l.a.) to (5) 4 lec 1 lab (B.l.a.)

MATH 333 Numerical Analysis II (3) 3 lec (was x-listed with CSC 333) to Numerical Analysis I (4) 4 lec, (new mcf requested); drop cross-listing (CSC 333 changed to CSC 343)
MATH 335 Graph Theory (3) 3 lec to (4) 4 lec
MATH 336 Combinatorial Mathematics (3) 3 lec to (4) 4 lec
MATH 431 Mathematical Optimization I (3) 3 lec to (4) 4 lec
MATH 432 Mathematical Optimization II (3) 3 lec to (4) 4 lec
MATH 433 Numerical Analysis II (3) 3 lec (Also listed as CSC 433) to (4) 4 lec, new mcf requested; delete cross-listing (CSC 433 deleted)
MATH 437 Game Theory (3) 3 lec to (4) 4 lec
MATH 470 Selected Advanced Topics (1-3) 1-3 lec to (1-4) 1-4 lec

PE -- Change all PE 200-level and above courses to KINE
PE 280 First Aid and CPR (3) 2 lec 1 act to KINE 280 Responding to Emergencies: First Aid/CPR
PE 307 Adaptive Physical Education (4) 3 lec 1 lab to KINE 307 Adapted Physical Activity for Special Populations
PE 319 Measurement and Evaluation II (4) 3 lec 1 lab to KINE 319 Measurement and Evaluation in Kinesiology
PE 411 The Human Element in Sport (3) 3 lec to KINE 411 Psycho/Social Aspects of Physical Activity
PE 439 Commercial/Corporate Fitness Internship (3) supv to KINE 463 Commercial/Corporate Health Promotion
CHANGED COURSES (continued)

PE 517 Research Methods in Physical Education (3) 3 sem to KINE 517 Research Methods in Kinesiology

PE 581 Graduate Seminar in Physical Education (1-3) 1-3 sem to KINE 581 Graduate Seminar in Kinesiology

PHYS 202 Physics and the Computer (3) 3 lec to Physics on the Computer (4) 4 lec

PHYS 243 Introductory Modern Physics Lab (1) 1 lab (B.1.a.) to PHYS 340 Introductory Quantum Physics Laboratory I (1) 1 lab (B.1.a.) (description combined with PHYS 341, 342, B.1.a.)

PHYS 323 Optics (4) 3 lec 1 lab (B.1.a.) to (5) 4 lec 1 lab, mcf

PHYS 341, 342 Quantum Physics Lab I, II (1) (2) 1 lab, 2 lab to Quantum Physics Lab II, III

PHYS 405 Quantum Mechanics I (3) 3 lec to (4) 4 lec

STAT 313 Applied Experimental Design and Regression Models (3) 3 lec (B.2.) to (4) 4 lec (B.2.)

STAT 321 Statistical Analysis I (3) 3 lec (B.2.) to Probability and Statistics for Engineers and Scientists (4) 4 lec (B.2.)

STAT 322 Statistical Analysis II (4) 4 lec (B.2.) to Statistical Analysis for Engineers and Scientists (B.2.)

STAT 323 Analysis of Variance (3) 3 lec (B.2.) to Design and Analysis of Experiments I (4) 4 lec (B.2.)

STAT 324 Applied Regression Analysis (3) 3 lec (B.2.) to (4) 4 lec (B.2.)

STAT 330 Statistical Uses of Computers (3) 3 lec to (4) 3 lec 1 act

STAT 423 Linear Models (3) 3 lec to Design and Analysis of Experiments II

STAT 425 Probability Theory and Applications I (3) 3 lec to Probability Theory (4) 4 lec

STAT 426 Probability Theory and Applications II (3) 3 lec to Estimation and Sampling Theory (4) 4 lec

STAT 427 Mathematical Statistics (3) 3 lec to (4) 4 lec

STAT 513 Applied Experimental Design and Regression Models (3) 3 lec to (4) 4 lec
CHANGED COURSES (continued)

ZOO 240 Human Anatomy and Physiology (5) 3 lec 2 act (B.1.b.) (replaces ZOO 237/238:B.1.b.)
(request for new mcf, former course did not have mcf)

ZOO 241 Human Anatomy and Physiology (5) 3 lec 2 act (B.1.b.) (replaces ZOO 237/239:B.1.b.)
(request for new mcf, former course did not have mcf)

ZOO 320 Fishery Resource Management (4) 4 lec (replacing CONS 320) (not B.1.b.)
ZOO 340 Human Muscle Anatomy (2) 1 lec 1 lab to (1) 1 lab

ZOO 423 Freshwater Fisheries Biology (4) 3 lec 1 lab (replacing CONS 422)
NEW COURSES
None

DELETED COURSES
EDUC 582 Seminar in Educational Administration (4) 4 sem
EDUC 583 Advanced Educational Personnel Management and Evaluation (4) 4 sem
EDUC 584 School Management, Communication and Organizational Effectiveness (2) 2 sem

CHANGED COURSES
EDUC 300 Introduction to the Teaching Profession (3) supv to 2 lec 1 act
EDUC 510 Educational Finance and Resource Allocation (3) 3 sem to (4) 3 sem 1 act
EDUC 511 Educational Law and Governance (3) 3 sem to (4) 3 sem 1 act
EDUC 515 Educational Program Management and Evaluation (3) 2 sem 1 act to (4) 3 sem 1 act
EDUC 560 Counseling Theories and Assessment (4) 3 sem 1 act: No longer cross-listed with PSY 560
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<td>Resource Survey (3) 2 llec 1 lab (replacing CONS 207; not GEB)</td>
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<td>Wildlife Conservation Biology (4) 4 llec (replacing CONS 120 Intro to Fish &amp; Wildlife Mgt (3) 3 llec; not GEB)</td>
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<td>Modern Drama in London to Drama in London</td>
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<td>Chicano/a Literature (3) to ES 300 (4) USCP</td>
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<td>American Cultural Images: (3) USCP: African Americans; Asian Americans; Mexican Americans</td>
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<td>The Twentieth Century (6) 2 lec 1 act 3 sem</td>
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<td>Ethical Issues in Cyberspace (3) 3 lec</td>
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<td>Personal Health: A Multicultural Approach (4) 3 lec 1 rec USCP</td>
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<td>Jazz Styles (3) 3 lec to (4) 3 lec 1 act</td>
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<td>American and California Government to POLS 110 (number change only)</td>
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(replacing STAT 211 (3) and STAT 212 (3))
(replacing ZOO 237 Human Anatomy (3) 2 lec 1 lab, and ZOO 239 Human Physiology (3) 2 lec 1 lab)
(replacing ZOO 237 Human Anatomy (3) 2 lec 1 lab and ZOO 239 Human Physiology (3) 2 lec 1 lab)
(replacing CONS 320 (4) 3 lec 1 lab; CONS 320 not GEB)
1998 CATALOG PROPOSALS
APPROVED PENDING / DISAPPROVED
Recommendations from Academic Senate Curriculum Committee

Degree Programs

1. New Degree Program: MS Forestry Sciences
   Approved pending answers to resource questions.

College of Agriculture, New Courses

2. FNR 412 Forest and Natural Resources Senior Assessment Project (4) 2 lec 2 lab
   Approved pending answers to further questions regarding Swanton Ranch.

College of Architecture, New Courses

3. ARCH 462 Topics in Architectural Practice (2) 2 sem, max 6 units
   Disapproved: must be at least 4 units

4. ARCH 472 Housing Design Concepts (3) 3 lec, max 6 units
   Disapproved: must be at least 4 units

5. ARCH 521 Senior Architectural Design Project (5) 5 lab, max 15 units, mcf
   Approved pending the retention of ARCH 481 which will be taught simultaneously with ARCH 521.

6. ARCH 592 Senior Design Thesis (3) 3 sem
   Approved pending the retention of ARCH 492 which will be taught simultaneously with ARCH 592.

7. EDES 406 Sustainable Environments (3) 3 lec
   Disapproved: must be at least 4 units

College of Architecture, Deleted Courses

8. ARCH 481 Senior Architectural Design Project (5) 5 lab
   Disapproved: undergraduates cannot be required to take graduate classes. ARCH 481 will be taught simultaneously with ARCH 521.

9. ARCH 492 Senior Design Thesis (3) 3 sem
   Disapproved: undergraduates cannot be required to take graduate classes. ARCH 492 will be taught simultaneously with ARCH 592.

12/15/97
College of Architecture, Changed Courses

10. ARCE 325 Dynamics (4) 4 lec to (3) 3 lec
    Approved pending change to 200-level course.

College of Engineering, New Courses

11. CPE 100 Computer Engineering Orientation (1) 1 sem CR/NC
    Approved pending signatures on revised course form.
SUMMARY OF PROGRAM PROPOSALS
1998 CATALOG

DEGREE PROGRAMS

*** New MS Forestry Sciences
Approved by Academic Senate Curriculum Committee pending answers to resource questions.

| Change Name BS Agricultural Engineering to BS Bioresource and Agricultural Engineering |
| Change Name BS Ornamental Horticulture to BS Environmental Horticulture Science |
| Change Name BS Applied Art and Design to BS Art and Design |
| Change Name BS Human Development to BS Child Development |
| Change Name BS Physical Education to BS Kinesiology |
| Change Name MS Physical Education to MS Kinesiology |

Add "4 +1" Honors to BS Aeronautical Engineering

CONCENTRATIONS

New Studio Art Concentration (BS Art & Design)

New Mechatronics Concentration (BS Mechanical Engineering)

New Environmental Geography Concentration (BS Social Sciences)

New Pacific Rim Concentration (BS Social Sciences)

Discontinue Production and Operations Management Concentration (BS Business Administration)

Discontinue Urban Studies Concentration (BA Political Science)

Discontinue Teaching Concentration (BA Political Science)
## SUMMARY OF PROGRAM PROPOSALS
### 1998 CATALOG

### CONCENTRATIONS (continued)

**Change name**

Parks and Forest Recreation Concentration to
Natural Resources Recreation Concentration
(BS Forestry and Natural Resources, BS Recreation Administration)

**Change name of Concentration:**

Commercial and Corporate Fitness to Commercial/Corporate Health Promotion
(BS Physical Education to BS Kinesiology)

**Change name of Concentrations**

(BS Agricultural Science)
Agricultural Mechanics to Agricultural Engineering
Agricultural Products and Processing to Food and Fiber Science
Agricultural Supplies and Services to Agricultural Business
Animal Production to Animal Science
Ornamental Horticulture to Environmental Horticulture
Plant Production to Plant Science

### SPECIALIZATIONS

Add Engineering Management Specialization to MS Engineering
(MBA/MS Engineering Management Specialization is an approved two-year program. This is a request to create a one-year Engineering Management Specialization under the existing MS Engineering)

### MINORS

**New**

Geographic Information Systems for Agriculture Minor
(Bioresource and Agricultural Engineering Department)

**Relocate**

Values, Technology and Society Minor to Humanities Program
WHEREAS, The 1998/99 Support Budget for the CSU proposes to increase the CSU Executives' salary by an average of 10%; and

WHEREAS, This same budget proposes only a 4% increase in the total compensation package (including general salary adjustments, service based salary increases, performance based salary adjustments and benefits) for non-executive employees; and

WHEREAS, Such a 4% compensation package will most likely further increase the lag in faculty salaries within the ranks of CPEC comparison institutions; and

WHEREAS, The Academic Senate of Cal Poly is dismayed and disappointed that the Trustees of the CSU would support this type of divisive compensation package; therefore, be it

RESOLVED: That the Academic Senate of Cal Poly strongly urge the Trustees of the CSU to rescind this disparate action and propose an adequate compensation package for faculty and staff that would seriously begin to reduce the growing lag in our salaries; and, be it further

RESOLVED: That the Trustees of the CSU suspend the Performance Salary Step Increase program until the faculty salary lag has been appreciably reduced.

Proposed by: George Lewis, CSM
Date: October 14, 1997
Revised: January 20, 1998
WASC Status Report to Academic Senate

Tuesday, January 20, 1998

H. Jo Anne Freeman
WASC Coordinator

WASC Self-Study – Cal Poly’s Reaffirmation of Accreditation

- Introduction – What is WASC? 1
- Cal Poly’s past performance 2
- What Cal Poly needs 3
- What Cal Poly doesn’t need 4
- Self-study and visit – two approaches 5
- Self-Study Principles and desired results 6
- Self-study Themes and Accomplishments 7
- Time table 8
- What now 9
- What is wanted from you 10

Introduction – What is WASC?

- WASC stands for Western Association of Schools and Colleges
- Independent body
- Voluntary participation in accreditation
- Necessary for credibility and focus
- WASC’s objectives
  - Quality of education
  - Voluntary, standard-based coalition
  - Issues of accreditation (who decides objectives)
  - Issues of independence of universities, especially resources
  - Improvement in process – similar to ABET 2000
  - Innovation
  - Ensuring student learning and student-based learning
Cal Poly's past performance

- Last visit – 1990
- Last self-study – from 1988 - 1990
- Updated study in 1994
- Our performance has consistently been considered excellent
- Leader among schools and colleges in the West
- Traditional response in the past from Cal Poly (nine standards)
- Encouraged to do innovative self-study

What Cal Poly Needs

- Clear delineation of our own goals and objectives
- Campus consensus on our future
- Coordination for self-study (and capital campaign)
- Involvement of all constituencies
- Benefits for entire campus community
- Resources increased
- Greater recognition as a leader in the West

What Cal Poly Doesn't Need

- Another study with tedious detail requiring faculty, staff, and administrators to write yet more reports.
- Policing or being told what to do (at any level)
- Resources spent for not much gain

Self-Study and Visit – Two Approaches

- Traditional
  - Nine committees for nine standards (repeat the past)
  - Collect data, summarize, and write reports
  - Hire someone to integrate all nine reports
  - Rewrite and edit after comments
  - Comfort, yet danger in this approach
Innovative
- Report on our on-going processes
- Use self-study to achieve our goals
- New committees/study groups based on themes selected by us
- Coordination with all other efforts ongoing on campus
- Some challenge in this approach
  - Benefits to this approach

Self-Study Principles and Desired Results

- Principles
  - Serve Cal Poly
  - Efficient
  - Elegant
  - Enjoyable
  - Integrative
  - Forward-thinking

- Desired results of self-study
  - Interconnectedness of WASC Effort and Cal Poly goals
  - Increased commitment, communication, and integration of objectives

Self-study Themes and Accomplishments

- Past work already accomplished on campus
  - Cal Poly Strategic Plan
  - Colleges’ Strategic Plans
  - Cal Poly Plan
  - Visionary Pragmatism Documents
  - Self-studies (program reviews) performed by all departments and programs
  - Accreditation reports from other agencies
  - External visitation committees and advisory boards to other programs
  - Needs assessments for centennial campaign

- Themes proposed
  “Cal Poly as a Center of Learning”
  - The Intellectual Environment
  - The Physical Environment
  - The Social Environment

- Organization of self-study and progress
  - Results of 1990 self-study reviewed
  - Uses of Cal Poly independent efforts at self-knowledge and direction
  - Constituencies contacted and involved
  - Surveys and data collected
Steering Committee
- Harvey Greenwald (Math and Interim Vice Provost and Campus Accreditation Liaison Officer)
- H. Jo Anne Freeman, WASC Coordinator (IME)
- Denise Campbell (Student Services)
- Susan Currier (CLA)
- Hiram Davis (Library)
- Joe Grimes (Computer Engineering and CSC)
- Karen King (Student)
- Anny Morrobel-Sosa (MATE and Chair of Academic Senate)
- Bubba Murarka
- Susan Opava (Dean of Graduate Studies and Research)
- Roxy Peck (CSM)
- Vicki Stover (Business Affairs)
- Dave Wehner (College of Agriculture)
- Mary Whiteford (Academic Affairs and Staff Representative)

WASC Conference and paper
Library of resources (related to past work)
ASI, Staff Council, Academic Senate, Public, DH/C, Administration, etc.

Time Table

- Self-study approach determined Fall, '97
- Steering Committee Meetings Fall and Winter, 1997-8
- Proposal Drafted Winter, 1998 (target date of 1/22/98)
- Draft distributed to campus for comments and verification,
  Spring, Summer, and Fall, '98 (no "Summer Surprises")
- Reports and process verified through President, WASC, and others,
  Winter and Spring, 99.
- Final reports and documentation sent to WASC July, 1999.

What Now

- Complete proposal and submit to WASC and sub-committees
- Draw guidelines for sub-committees
- Form sub-committees
  - Use talents and efforts already on campus
  - Encourage innovation and courage
  - Ensure wide representation
- Complete phases of self-study
Include nine standards from WASC Guidelines
Integration of all efforts (especially on content and Themes)

What is Wanted from You

- Ideas
- Support
- Cooperation
- Commitment to Cal Poly and its future
Academic Senate WASC Self-Study Status Report

For questions, please contact Harvey Greenwald (hgreenwa@polymail) or Jo Anne Freeman (jfreeman@polymail).

For more details, please ask for a copy of the longer version of the WASC Status Report from the Academic Senate Office.

WASC
- WASC (Western Association of Schools and Colleges)
- Independent accreditation agency for school, colleges, and universities
- Accreditation is voluntary
- Campuses who seek reaccreditation must do self-study once every nine years
- Our last was 1988-90
- Self-study report due to WASC July, 1999

WASC Objectives
- Help improve quality of education
- Help to stimulate improvement in educational processes
  - Innovation
  - Ensuring student learning and student-based learning
- Help to ensure that minimal standards are met

Self-Study for Cal Poly
Desired results of self-study:
- Interconnectedness of WASC Effort and Cal Poly goals
- Increased commitment, communication, and integration on campus

Principles
- Serve Cal Poly – help us to realize our goals and vision
- Efficient – use all the efforts and other studies which we have completed
- Elegant – do as much as needed; but no more than is useful or needed
- Enjoyable – improve our knowledge of each other
- Integrative – integrate more areas of campus and improve communications
- Forward thinking – prepare Cal Poly for the future

Themes Proposed for Self-study

“Cal Poly as a Center of Learning”
- The Intellectual Environment
- The Physical Environment
- The Social Environment

Each of these themes will be explored by task forces or subcommittees and will report back to the Steering Committee
Organization of self-study and progress so far

- Using the results of 1990 self-study
- Using the results of all the independent efforts at self-knowledge and direction
- Constituencies contacted and involved (Academic Senate, President’s Strategic Management Group, Dean’s Council, Staff Council, ASI Executive Board)
- Surveys and data collected; library of resources collected
- Steering Committee (appointed in Oct. 1997) meeting regularly
  Harvey Greenwald, Campus Accreditation Liaison Officer
  H. Jo Anne Freeman, WASC Coordinator
  Denise Campbell
  Susan Currier
  Hiram Davis
  Joe Grimes
  Karen King (student)
  Anny Morrobel-Sosa
  Bubba Murarka (student)
  Susan Opava
  Roxy Peck
  Vicki Stover
  Dave Wehner
  Mary Whiteford
- WASC Conference to be attended, April, 1998. Paper submitted

What is next?

- Proposal draft target date of 1/22/98
- Draw guidelines and charge for sub-committees
- Form sub-committees
- Encourage innovation and courage in self-study
- Ensure wide representation
- Complete all phases of self-study
  - Address the required nine standards for accreditation (WASC Guidelines)
  - Get draft of self-study report to campus prior to Summer, 1998.
  - Gather comments and do editing and rewriting, Fall, Winter, 1998-9
  - Draft to WASC, President, all others by Spring, 1999
  - Final version of report completed by July, 1999
  - Campus visit by WASC team in Fall, 1999.
MS in Engineering with Specialization in
Integrated Engineering Management
Program of Study

The MSE in Integrated Engineering Management is basically a 1-year version of the EMP without the required business courses. The program utilizes the EMP Industry/University Partnership to more tightly integrate the university program with evolving industry needs. The purpose of the program is to develop “industry ready” graduates who will be facilitators of change and integrators of engineering disciplines, industry concerns, and people issues. The Integrated Engineering Management program can be completed in 1-year (12 months) following the curriculum shown below. Upon completion, graduates receive the MS in Engineering degree with Specialization in Integrated Engineering Management. The program consists of engineering courses and possible business courses with many courses involving actual integrated problems or opportunities from the Industry Partner organizations in a collaborative learning environment.

Curriculum

Fall Quarter
IME 501 Graduate Survey (3)
IME 556 Technological Project Management (4)
Engineering Elective (3-4)
Elective (4)

Winter Quarter
** IME 557 Technological Assessment & Planning (4)
IME 555 Computer-Integrated Manufacturing (4)
Engineering Elective (3-4)
Elective (4)

Spring Quarter
Engineering Elective (3-4)
Engineering Elective (3-4)
Engineering Elective (3-4)
** IME 599 Design Project (Thesis) (4)

Summer Quarter
** IME 595 Cooperative Education Experience (6)

NOTES:
1. "**" denotes a significant involvement of EMP Industry Partner organizations.
2. Numbers in parentheses indicate the number of units for the course.
3. Approved Engineering Electives will be determined with the student’s advisor in the College of Engineering, and shall be selected to provide an appropriate balance of integrated cross-disciplinary courses, as well as depth in an area of engineering consistent with the student’s background and interests.
4. Electives may be 400 and 500-level Engineering or Business courses approved by the student’s advisor in the College of Engineering.
5. The IME 599 / IME 595 course sequence provides an internship and team project experience like that described in the “Guidelines and Procedures for EMP Internships and Team Projects”. Optionally, a student may do a thesis project (e.g., IME 599 Design Project (Thesis) (9) or EE 599 Design Project (Thesis) (9)).
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### Courses Proposed for GEB -- 1998 Catalog

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<th>GEB Area</th>
<th>GEB Committee</th>
<th>Academic Senate</th>
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Name Change from: BS Agricultural Engineering
to: BS BIORESOURCE AND AGRICULTURAL ENGINEERING

Rationale:
Given the changing view of the field of agricultural engineering, the department requests the program name be changed from Agricultural Engineering. While the title "agricultural engineer" adequately labels those who serve the field to solve problems related to the production and use of agricultural products, it is also recognized that a different title is needed to adequately describe the changing role and public perception of agricultural engineers.

The bioresource engineer uses quantitative biology along with mathematics, physics, chemistry and other sciences in the analysis of problems and the design of solutions related to food, water, soil, environment and plant and animal production and use.

Also, the name change is consistent with recent name changes at other agricultural engineering programs throughout the U.S.; about 63% of the traditional AE programs have modified their department title and program name to incorporate some concept of bio, biological, or bio-systems in addition to or in lieu of agricultural engineering.

MAJOR COURSES
BRAE 128 Careers in Bioresource and Agricultural Engineering.................. 2
BRAE 129 Laboratory Skills and Safety ........................................ 1
BRAE 133 Engineering Design Graphics......................................... 3
BRAE 151 CAD for Agricultural Engineering................................. 1
BRAE 226 Introduction to Principles of Bioresource Engineering............. 4
BRAE 232 Agricultural Structures Planning .................................... 4
BRAE 234 Intro Mechanical Systems in Agric .................................... 4
BRAE 236 Principles of Irrigation.................................................. 4
BRAE 237 Engineering Surveying I............................................... 2
BRAE 312 Hydraulics..................................................................... 4
BRAE 328 Measurements & Computer Interfacing.............................. 4
BRAE 331 Irrigation Theory........................................................... 3
BRAE 403 Agricultural Systems Engineering................................. 4
BRAE 414 Irrigation Engineering.................................................... 4
BRAE 415 Hydrology.................................................................... 3
BRAE 421 Equipment Engineering.................................................. 3
BRAE 422 Equipment Engineering.................................................. 4
BRAE 433 Agricultural Structures Design...................................... 4
BRAE 460 Senior Project Organization............................................ 1
BRAE 461 Senior Project.................................................................. 2
BRAE 462 Senior Project.................................................................. 2
Adviser approved electives.............................................................. 10

SUPPORT COURSES
BIO 220 Physiology and Biological Adaptation or
BACT 221 General Bacteriology (B1b, E2).................................... 4
CE 204 Strength of Materials......................................................... 3
CE 205, 206 Strength of Materials and Lab..................................... 2,1
CHEM 124 General Chemistry for the Engineering Disciplines (B1a)*................................. 4
CHEM 125 General Chemistry for the Engineering Disciplines............ 4
CSC 118/CSC 204/CSC 251 (F1)*.................................................. 2
EE 201, 251 Electrical Circuit Theory and Lab................................ 3,1
IME 314 Engineering Economics.................................................. 3
MATH 141 Calculus I (B2)*........................................................... 4
MATH 142 Calculus II (B2)*........................................................... 4
MATH 143 Calculus III................................................................. 4
MATH 241 Calculus IV................................................................. 4
MATH 242 Differential Equations.................................................. 4
ME 211 Engineering Statics......................................................... 3
ME 212 Engineering Dynamics..................................................... 3
ME 302 Thermodynamics............................................................ 3
PHYS 131 General Physics (B1a)*................................................... 4
PHYS 132 General Physics............................................................. 4
PHYS 133 General Physics............................................................. 4
SS 121 Introductory Soil Science.................................................. 4
STAT 312 Statistical Methods for Engineers.................................. 3

GENERAL EDUCATION AND BREADTH
Total.......................................................... 75

A minimum of 76 units is required; 23 of the units are in Support

ELECTIVES ....................................................................... 5

Course prefix change from: AE, ASM to BRAE

1/20/98 m:\...summary\98progsum.doc
Name Change from: BS Ornamental Horticulture
to: BS ENVIRONMENTAL HORTICULTURAL SCIENCE

Rationale:
The curriculum and the individual courses in this program have evolved over the past twenty years to reflect an environmental emphasis. The program name change from ornamental horticulture will more accurately reflect the emphasis on science and the environment in the curriculum. As perception of the field and industry has evolved, many academic departments and industrial companies have changed their names to some variation of environmental horticulture to reflect this view.

MAJOR COURSES
OH 110 Orientation to Environmental Horticultural Science ......................................................... 1
OH 121 Fund. Environmental Horticulture I ........... 4
OH 122 Fund. Environmental Horticulture II .......... 4
OH 123 Landscape Installation and Maintenance ... 4
OH 124 Plant Propagation ....................................... 4
OH 126 Environmental Horticulture Construction... 2
OH 200/210/401....................................................... 2
OH 221 Water Issues and Delivery Systems ........... 3
OH 222 Abiotic Plant Problems ............................... 3
OH 231, OH 232 Plant Materials ............................ 4,4
OH 427 Diseases & Pest Cont Sys Ornam. Plants .... 4
OH 461 Senior Project ............................................ 2
OH 462 Senior Project ............................................ 2
OH 463 Senior Seminar .......................................... 1
Adviser approved electives, 300-400 level............... 30

SUPPORT COURSES  * = Courses satisfy GEB
ACTG 211 Financial Accounting for Nonbusiness
   Majors................................................................... 4
BIO 302/BOT 223/PHYS 104/PSC 101 ................. 3/4
BOT 121 General Botany (B1b)* ................... 4
BOT 322 Introductory Plant Physiology (B1b)* .... 4
BOT 324 Ornamental and Forest Pathology ......... 4
BUS 201/207 Business Law Survey .................... 3/4
CHEM 111 General Chemistry (B1a)* ............... 5
CHEM 212 Survey of Organic Chemistry ............ 5
CSC 110 Computers & Comp Appl.: MS-DOS or
AG 250 Computer Appl. to Agriculture (F1)* .... 3
CRSC 311 Insect Pest Management .................... 3
MATH 118 Pre-Calculus Algebra (B2)* ......... 4
   (or MATH 116 & MATH 117)
SPAN 111 Elementary Hispanic Language and
   Culture (USCP)..................................................... 4
SS 121 Introductory Soil Science ......................... 4
SS 221 Fertilizers ................................................. 4
STAT 130 Intro. to Statistical Reasoning or
   STAT 218 Applied Stat for Life Sciences (B2).... 3/4

GENERAL EDUCATION AND BREADTH
Total ........................................................................... 74

A minimum of 76 units is required, 21 of the units
are in Support.

ELECTIVES .................................................................. 4/7

58/61
Name Change from: BS Applied Art and Design to: BS ART AND DESIGN

Rationale:
While the program emphasis continues to be towards professionalism in the fields of photography and graphic design, the Art and Design Department has long felt the word "Applied" was too vocationally oriented, its use having very limited and dated implications. Additionally, since a new studio art concentration is being proposed, a more general degree name would be more inclusive.

**MAJOR COURSES**
* = Courses satisfy GEB requirements

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<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 101</td>
<td>Fundamentals of Drawing (C.2.)</td>
<td>4</td>
</tr>
<tr>
<td>ART 108</td>
<td>Fundamentals of Sculpture (C.2.)</td>
<td>4</td>
</tr>
<tr>
<td>ART 131</td>
<td>2-Dimensional Design Fundamentals</td>
<td>3</td>
</tr>
<tr>
<td>ART 132</td>
<td>Beginning Color Theory</td>
<td>3</td>
</tr>
<tr>
<td>ART 134</td>
<td>3-Dimensional Design I</td>
<td>3</td>
</tr>
<tr>
<td>ART 181</td>
<td>Computer Imaging and Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 211/212</td>
<td>Art History</td>
<td>4,4</td>
</tr>
<tr>
<td>ART 221</td>
<td>Basic B/W Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 222</td>
<td>35mm Intermediate B/W Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 224</td>
<td>Intro. Artificial Lighting for Photography</td>
<td>3</td>
</tr>
<tr>
<td>ART 312</td>
<td>Contemporary Art</td>
<td>4</td>
</tr>
</tbody>
</table>

Select two:

- ART 310/311 1316/317/318 Art History 4,4
- History

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 460</td>
<td>Professional Practices</td>
<td>2</td>
</tr>
<tr>
<td>ART 461</td>
<td>Senior Project</td>
<td>2</td>
</tr>
<tr>
<td>ART 462</td>
<td>Senior Portfolio Project</td>
<td>2</td>
</tr>
<tr>
<td>ART 463</td>
<td>Undergraduate Seminar</td>
<td>2</td>
</tr>
</tbody>
</table>

3-D Studio approved electives

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
</table>

Concentration courses (see below) 55

**GENERAL EDUCATION AND BREADTH**

Total 118

A minimum of 79 units is required; 4 of the units are in Major Courses.

**ELECTIVES**

5

198

* These classes cannot be double-counted for concentration and 3D approved electives.

**CONCENTRATIONS** (select one)

- Graphic Design Concentration
- Photography and Digital Imagery Concentration
- Studio Art Concentration

**NEW CONCENTRATION: STUDIO ART**

Rationale:
This concentration is highly encouraged by the program's accrediting agency, and long needed to round out the Art Program at Cal Poly. There is an important group of current and prospective students who are not presently being served by the two existing concentrations.

Anticipated initial enrollment: 10-12

The College of Liberal Arts intends to dedicate 10 more spaces in its student allocation to the Art Department.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 201</td>
<td>Intermediate Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 204</td>
<td>Beginning Watercolor</td>
<td>3</td>
</tr>
<tr>
<td>*ART 240</td>
<td>Glassblowing</td>
<td>4</td>
</tr>
<tr>
<td>*ART 245</td>
<td>Ceramics</td>
<td>3</td>
</tr>
<tr>
<td>*ART 255</td>
<td>Jewelry Design</td>
<td>3</td>
</tr>
<tr>
<td>ART 301</td>
<td>Advanced Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 302</td>
<td>Life Drawing</td>
<td>3</td>
</tr>
<tr>
<td>ART 305</td>
<td>Painting Techniques</td>
<td>3</td>
</tr>
<tr>
<td>*ART 308</td>
<td>Sculpture</td>
<td>3</td>
</tr>
<tr>
<td>ART 336</td>
<td>Exhibition Design</td>
<td>3</td>
</tr>
<tr>
<td>ART Upper</td>
<td>Level Art History (beyond core requirements)</td>
<td>4</td>
</tr>
</tbody>
</table>

Adviser approved electives
(these classes are repeatable up to 2 times)


55
Name Change from: BS Human Development
to: BS CHILD DEVELOPMENT

Rationale:
The department proposes to change the degree name from
"Human Development" back to "Child Development," the
name of the program prior to 1984. Since then it has
evolved several times, changing to Child and Family
Then a second degree program, BS Psychology, was
approved in 1994.

The current Human Development degree program at Cal
Poly focuses on knowledge related to the education and
development of children, while in other CSU programs
and elsewhere the name "Human Development" reflects
an emphasis on interdisciplinary studies and lifespan
development.

MAJOR COURSES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD 102</td>
<td>Orientation to Child Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 128</td>
<td>Nurturing Relationships</td>
<td>3</td>
</tr>
<tr>
<td>CD 130</td>
<td>Supervised Study of Children</td>
<td>4</td>
</tr>
<tr>
<td>CD 203</td>
<td>Family Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 209</td>
<td>Early Development</td>
<td>4</td>
</tr>
<tr>
<td>CD 230</td>
<td>Supervised Study of Children: Early Childhood</td>
<td>4</td>
</tr>
<tr>
<td>PSY 303</td>
<td>Family Interaction or PSY 351 Group Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>CD 306</td>
<td>Adolescence</td>
<td>4</td>
</tr>
<tr>
<td>CD 309</td>
<td>Learning, Develop and Technology I</td>
<td>4</td>
</tr>
<tr>
<td>CD 310</td>
<td>Learning, Develop and Technology II</td>
<td>4</td>
</tr>
<tr>
<td>CD 311</td>
<td>Learning, Develop and Technology III</td>
<td>4</td>
</tr>
<tr>
<td>PSY 323</td>
<td>The Helping Relationship</td>
<td>4</td>
</tr>
<tr>
<td>CD 324</td>
<td>Guiding Children and Adolescents</td>
<td>4</td>
</tr>
<tr>
<td>CD 329</td>
<td>Research Methods in Human Develop</td>
<td>3</td>
</tr>
<tr>
<td>CD 330</td>
<td>Supervised Internship</td>
<td>4</td>
</tr>
<tr>
<td>CD 401</td>
<td>Perspectives on Childhood Education</td>
<td>4</td>
</tr>
<tr>
<td>CD 430</td>
<td>Advanced Internship</td>
<td>4</td>
</tr>
<tr>
<td>CD 461</td>
<td>Senior Project Seminar</td>
<td>2</td>
</tr>
<tr>
<td>CD 462</td>
<td>Senior Project</td>
<td>2</td>
</tr>
</tbody>
</table>

SUPPORT COURSES

* = Courses satisfy General Education and
   Breadth requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 302</td>
<td>Human Genetics (E.1.b.)*</td>
<td>3</td>
</tr>
<tr>
<td>FSN 210</td>
<td>Nutrition (E.2.)*</td>
<td>3</td>
</tr>
<tr>
<td>PSY 201/PSY 202</td>
<td>General Psychology (E.1.)*</td>
<td>3</td>
</tr>
<tr>
<td>Adviser approved electives</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>

GENERAL EDUCATION AND BREADTH

A minimum of 79 units is required; 8 of the units
are in Support

ELECTIVES

Course prefix change from HD to CD
Name Change from: BS Physical Education to: BS KINESIOLOGY

Rationale:

The Physical Education and Kinesiology Department requests to change the program name from B.S. Physical Education to B.S. Kinesiology because the current designation, physical education, is not representative of the strength of the curriculum nor the career opportunities available to the graduates. Coursework has also been added which deals with the social and psychological aspects of human movement and sport.

The curriculum has evolved with a focus on all dimensions of human movement, not just the dimension of motor skill acquisition typically associated with pedagogy. And there is a trend among similar programs to adopt kinesiology as the degree title.

SUPPORT COURSES

<table>
<thead>
<tr>
<th>COURSE</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 111 General Chemistry or CHEM 127</td>
<td>5</td>
</tr>
<tr>
<td>ENGL 310/ENGL 315 (Students in Teaching Concentration must take ENGL 315)</td>
<td>4</td>
</tr>
<tr>
<td>FSN 210 Nutrition (E.2.)*</td>
<td>3</td>
</tr>
<tr>
<td>MATH 118 or MATH 116 and MATH 117 (B.2.)*</td>
<td>4</td>
</tr>
<tr>
<td>PSY 201/PSY 202 General Psychology (E.1.)*</td>
<td>3</td>
</tr>
<tr>
<td>STAT 217 Applied Statistics for Liberal Arts or STAT 218 Applied Stat Life Sciences (B.2.)*</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 131 or BIO 101 or BIO 151 (B.1.b.)*</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 240, ZOO 241 Human Anatomy and Physiology (B.1.b.)*</td>
<td>5.5</td>
</tr>
<tr>
<td>ZOO 340 Human Muscle Anatomy</td>
<td>1</td>
</tr>
</tbody>
</table>

GENERAL EDUCATION AND BREADTH

Total: 56
A minimum of 79 units is required; 23 of the units are in Major and Support

ELECTIVES: 10

196-198

CONCENTRATIONS (select one)
Health Education Concentration
Teaching Concentration
Pre-Physical Therapy Concentration

Concentration Name Change from: Commercial and Corporate Fitness to: COMMERCIAL/CORPORATE HEALTH PROMOTION

This change will update the name to better represent the direction of the concentration. The term "Health Promotion" is currently the identifiable term for this course of study. The concentration has no change in the curriculum.

Course prefix change from: PE to KINE
Name Change from: MS Physical Education to: MS KINESIOLOGY

Rationale:

The Physical Education and Kinesiology Department requests to change the program name from M.S. Physical Education to M.S. Kinesiology because the current designation, physical education, is not representative of either the strength of the curriculum or the career opportunities available to the graduates. Coursework has also been added which deals with the social and psychological aspects of human movement and sport. The curriculum has evolved with a focus on all dimensions of human movement, not just the dimension of motor skill acquisition typically associated with pedagogy. And there is a trend among similar programs to adopt kinesiology as the degree title.

<table>
<thead>
<tr>
<th>Units</th>
<th>Required courses ..................................................................................................................</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>KINE 515 Behavior and Communication in a Health and Physical Education Setting (3)</td>
</tr>
<tr>
<td></td>
<td>KINE 517 Research Methods in Kinesiology (3)</td>
</tr>
<tr>
<td></td>
<td>KINE 519 Evaluation of Current Studies (3)</td>
</tr>
<tr>
<td></td>
<td>KINE 522 Biomechanics (3)</td>
</tr>
<tr>
<td></td>
<td>KINE 525 Human Performance and Learning (3)</td>
</tr>
<tr>
<td></td>
<td>KINE 530 Advanced Physiology of Exercise (4)</td>
</tr>
</tbody>
</table>

| Area of Emphasis .............................................................................................................. |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|
| 12/16 | Exercise and Health Promotion Emphasis (16)                                                                                           |
|       | KINE 503 Seminar in Adult Wellness (3)                                                                                               |
|       | KINE 504 Cardiopulmonary Physiology, Pathology and Exercise (3)                                                                      |
|       | KINE 514 Health Education Planning (3)                                                                                                |
|       | KINE 516 Management of Health Promotion in the Workplace (3)                                                                         |
|       | KINE 536 Advanced Electrocardiography (4)                                                                                             |

| Human Movement and Sport Emphasis (12) .................................................................... |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|
|       | KINE 502 Current Trends and Issues in Physical Education (3)                                                                       |
|       | KINE 511 Administration of Physical Education and Athletics (3)                                                                     |
|       | KINE 526 Sport in American Society (3)                                                                                              |
|       | KINE 539 Observation, Development and Analysis of Teaching (3)                                                                      |

| Electives to be selected with adviser's approval ................................................... |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|
| 14/10 |                                                                                                                                       |

| Summary                                      |
|-------|---------------------------------------------------------------------------------------------------------------------------------------|
| 45    |                                                                                                                                       |
New Concentration: Mechatronics

BS MECHANICAL ENGINEERING

MAJOR COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ME 151 Engineering Design Communication I</td>
<td>2</td>
</tr>
<tr>
<td>ME 152 Engineering Design Communication II</td>
<td>2</td>
</tr>
<tr>
<td>ME 134 Mechanical Systems (Transfer students must take ME 234)</td>
<td>3</td>
</tr>
<tr>
<td>ME 211 Engineering Statics</td>
<td>3</td>
</tr>
<tr>
<td>ME 212 Engineering Dynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 236 Thermal Systems</td>
<td>3</td>
</tr>
<tr>
<td>ME 302 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>ME 313 Heat Transfer</td>
<td>3</td>
</tr>
<tr>
<td>ME 318 Mechanical Vibrations</td>
<td>4</td>
</tr>
<tr>
<td>ME 326 Intermediate Dynamics</td>
<td>4</td>
</tr>
<tr>
<td>ME 328 Introduction to Design</td>
<td>4</td>
</tr>
<tr>
<td>ME 329 Intermediate Design</td>
<td>4</td>
</tr>
<tr>
<td>ME 341 Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 342 Fluid Mechanics</td>
<td>3</td>
</tr>
<tr>
<td>ME 344 Thermal Engineering</td>
<td>4</td>
</tr>
<tr>
<td>ME 345 Fluid Mechanics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ME 346 Thermal Science Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>ME 422 Mechanical Control Systems</td>
<td>4</td>
</tr>
<tr>
<td>ME 440 Thermal System Design</td>
<td>4</td>
</tr>
<tr>
<td>ME 461 Senior Project</td>
<td>2</td>
</tr>
<tr>
<td>ME 462 Senior Project</td>
<td>3</td>
</tr>
<tr>
<td>ME 463 Undergraduate Seminar</td>
<td>1</td>
</tr>
<tr>
<td>Adviser approved emphasis area or mechatronics concentration</td>
<td>20</td>
</tr>
</tbody>
</table>

SUPPORT COURSES

* = Courses satisfy General Education and Breadth requirements

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 220 Physiology and Biological Adaptation</td>
<td>4</td>
</tr>
<tr>
<td>CE 204 Strength of Materials</td>
<td>3</td>
</tr>
<tr>
<td>CE 205, 206 Strength of Materials and Lab</td>
<td>2,1</td>
</tr>
<tr>
<td>CHEM 124 General Chemistry for the Engineering Disciplines (B.I.a.)*</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 125 General Chemistry for the Engineering Disciplines (B.I.a.)*</td>
<td>4</td>
</tr>
<tr>
<td>CSC 251 Fortran for Engineering Students (F.I.)*</td>
<td>2</td>
</tr>
<tr>
<td>EE 201, 251 Electric Circuit Theory and Lab</td>
<td>3,1</td>
</tr>
<tr>
<td>EE 321, 361 Electronics and Lab</td>
<td>3,1</td>
</tr>
<tr>
<td>IME 142 Manufacturing Processes: Materials Joining</td>
<td>2</td>
</tr>
<tr>
<td>IME 143 Manufacturing Processes: Material Removal</td>
<td>2</td>
</tr>
<tr>
<td>MATE 210, 215 Materials Engineering and Lab</td>
<td>3,1</td>
</tr>
<tr>
<td>MATH 141 Calculus I (B.2.)*</td>
<td>4</td>
</tr>
<tr>
<td>MATH 142 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 143 Calculus III</td>
<td>4</td>
</tr>
<tr>
<td>MATH 241 Calculus IV</td>
<td>4</td>
</tr>
<tr>
<td>MATH 242 Differential Equations</td>
<td>4</td>
</tr>
<tr>
<td>MATH 318 Advanced Engineering Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 131 General Physics (B.I.a.)*</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 132 General Physics</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 133 General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Manufacturing Processes elective</td>
<td>1</td>
</tr>
<tr>
<td>Manufacturing Processes elective (IME 141, IT 141 or IT 327)</td>
<td>1</td>
</tr>
</tbody>
</table>

GENERAL EDUCATION AND BREADTH

Total: 84

A minimum of 75 units is required; 22 units are in Support

ELECTIVES: 0

210

Select Either Adviser Approved Emphasis or Mechatronics Concentration:

NEW: MECHATRONICS CONCENTRATION

Rationale:

More and more employers are specifically seeking graduates with training in mechatronics. Companies who traditionally hire only electrical/electronic engineers and computer science graduates are now actively recruiting our students with mechatronics experience.

Anticipated enrollment in new concentration:

<table>
<thead>
<tr>
<th>Year</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>1997-98</td>
<td>50</td>
</tr>
<tr>
<td>1998-99</td>
<td>100</td>
</tr>
<tr>
<td>1999-2000</td>
<td>150</td>
</tr>
<tr>
<td>2000-2001</td>
<td>170</td>
</tr>
<tr>
<td>2001-2002</td>
<td>190</td>
</tr>
</tbody>
</table>

Enrollment in BS Mechanical Engineering: 835

IME 157 Electronic Manufacturing: 3
IME 405 Mechatronics: 4
IME 406 Mechatronics Design: 4
IME 423 Robotics: Fundamentals and Applications: 4
CPE 436/476 or IME 356: 4
IME 400 Special Problems for Adv Undergrad: 1

Elective based on interests of students.
## BS SOCIAL SCIENCES

### MAJOR COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 201 Cultural Anthropology (D.4.a)</td>
<td>3</td>
</tr>
<tr>
<td>ANT 202 World Prehistory</td>
<td>3</td>
</tr>
<tr>
<td>ANT 203 Physical Anthropology</td>
<td>3</td>
</tr>
<tr>
<td>Anthropology electives (300-400 level)</td>
<td>6</td>
</tr>
<tr>
<td>GEOG 301 Introduction to Cultural Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 302 Physical Geography</td>
<td>4</td>
</tr>
<tr>
<td>GEOG 333 Human Impact on the Earth</td>
<td>4</td>
</tr>
<tr>
<td>Geography electives (300-400 level)</td>
<td>6</td>
</tr>
<tr>
<td>SOC 105 Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 106 Social Problems</td>
<td>4</td>
</tr>
<tr>
<td>SOC 323 Social Stratification</td>
<td>3</td>
</tr>
<tr>
<td>SOC 333 Social Research Methods I</td>
<td>3</td>
</tr>
<tr>
<td>SOC 334 Social Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>SOC 421 Social Theory</td>
<td>4</td>
</tr>
<tr>
<td>SOCS 461 Senior Project</td>
<td>2</td>
</tr>
<tr>
<td>SOCS 462 Senior Project</td>
<td>2</td>
</tr>
<tr>
<td>Sociology electives (300-400 level)</td>
<td>6</td>
</tr>
<tr>
<td>Concentration or individualized course of study</td>
<td>27</td>
</tr>
</tbody>
</table>

### SUPPORT COURSES

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>History elective (300-400 level)</td>
<td>3</td>
</tr>
<tr>
<td>Political science elective (300-400 level)</td>
<td>3</td>
</tr>
<tr>
<td>STAT 211 Elem Probability and Statistics or STAT 217 Applied Stat-Liberal Arts (B2)*</td>
<td>3/4</td>
</tr>
</tbody>
</table>

### GENERAL EDUCATION AND BREADTH

Total: 73 units required; 6 units are in Major and Support

### ELECTIVES

Total: 19 units

## CONCENTRATION OR INDIVIDUALIZED COURSE OF STUDY (select one)

- Criminal Justice Concentration
- Cross-Cultural Studies Concentration
- Organizations Concentration
- Social Services Concentration
- Teaching Concentration
- Individualized Course of Study
- Environmental Geography
- Pacific Rim

### NEW: ENVIRONMENTAL GEOGRAPHY CONCENTRATION

**Rationale:**
The discipline of geography is experiencing a resurgence across the country, and there is a growing interest in environmental problems. A concentration with the word "geography" in the title will assist students with a degree in Social Sciences to gain admittance to graduate school in geography.

Anticipated enrollment: 1st Year: 10, After 5 Years: 30

**Required courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 315, GEOG 325, GEOG 333</td>
<td>12</td>
</tr>
</tbody>
</table>

**Applications and Issues** (select 16 units)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT 310, 420; BIO 301; BRAE 237, 345, 446; CRP 111, 112; FNR 202, 300, 318; GEOL 211; LA 212, 321; OH 121; SS 121, 202, 433</td>
<td>16</td>
</tr>
</tbody>
</table>

## NEW: PACIFIC RIM CONCENTRATION

**Rationale:**
The Pacific Rim has become the most important trading partner for the United States, especially for California and at least 10% of the jobs in California are dependent upon this trade. Since 1985 the CSU has recognized this fact and urged CSU campuses to devote more of their academic resources to this subject. The focus of the concentration will be to prepare students to work with people from the various Pacific Rim countries, to prepare to live in Pacific Rim countries and to enable them to understand the way of life, values and goals of the various societies of this region.

Anticipated enrollment in 5 years: 15

**Required courses**

<table>
<thead>
<tr>
<th>Course</th>
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**East Asia or Latin America Track**

**East Asia Track**

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**Latin America Track**

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<td>GEOG 401; HIST 340, 341, HUM 310; POLS 327; SPAN 201, 202, 301</td>
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BS AGRICULTURAL SCIENCE, Name Change of Concentrations:

**Rationale:**
The names of the concentrations have been changed to reflect current nomenclature.

**CONCENTRATIONS (select one)**

| Change from Agricultural Mechanics to: Agricultural Engineering Concentration ** | BRAE 124 Small Engines ................. 2  |
| | BRAE 237 Engineering Surveying ................. 2  |
| | BRAE 321 Agricultural Safety ......................... 2  |
| | BRAE 335 Internal Combustion Engines ................. 4  |
| | IME 155 Industrial Welding Technology ................. 1  |
| | BRAE electives (7 units at 300-400 level) .......... 10  |
| **Total: 22** | |

| Change from Agricultural Products & Processing to: Food and Fiber Science Concentration | DSCI 231 General Dairy Manufacturing ................. 4  |
| | FSN 211 Meats ........................................ 3  |
| | FRSC/VGSC 421 Postharvest Tech. Horticultural Crops ................. 4  |
| | DSCI/FSN electives (6 units at 300-400 level) ........ 11  |
| **Total: 22** | |

| Change from Ornamental Horticulture to: Environmental Horticulture Concentration | OH 122 Fundamentals of Environmental Horticulture ................. 4  |
| | OH 123 Landscape Installation and Maintenance ................. 4  |
| | OH 324 Foliage Plant Culture ................................ 4  |
| | OH electives (6 units at 300-400 level) ........ 10  |
| **Total: 22** | |

| Change from Animal Production to: Animal Science Concentration | ASCI 141/142/143 ................. 4,4  |
| | ASCI 220 Introduction to Animal Nutrition and Feeding ................. 4  |
| | DSCI 330 Artificial Insemination and Embryo Biotechnology ................. 4  |
| | ASCI/DSCI/PM electives (300–400 level) ........ 6  |
| **Total: 22** | |

| Change from Plant Production to: Plant Science Concentration | CRSC/VGSC 230 (Select course not taken in major column) ................. 4  |
| | CRSC 221 Weed Science ................................ 4  |
| | CRSC 311 Insect Pest Management ......................... 4  |
| | SS 221 Fertilizers ................. 4  |
| | CRSC/VGSC electives (300–400 level) ........ 6  |
| **Total: 22** | |

1/20/98 m:\summary\progsum.doc
New Minor: GEOGRAPHIC INFORMATION

This minor is an interdisciplinary program sponsored by three departments: Bioresource and Agricultural Engineering, Natural Resources Management, and Crop Science. New technologies of geographic information systems (GIS), global positioning systems (GPS), and orthophotography (uniform scale aerial photographs) are revolutionizing the management of resources. There are great employment opportunities for those who understand the technologies and society will benefit from improved management decisions. Students interested in this minor may come from the following majors: forestry and natural resources; crop science; soil science; landscape architecture, agricultural systems management; or animal science.

Required courses

**Units**

**Graphical Communication** (4)
- BRAE 133 Engineering Design Graphics (3) and
- BRAE 151 CAD for Agric Engineering (1)

**Surveying** (4)
- BRAE 237 Engineering Surveying I or BRAE 247 Forest Surveying (2) and BRAE 238 Engrg. Surveying II (2)

**Photogrammetry**
- BRAE 345 Aerial Photogrammetry/Remote Sensing (3)

**Land Modeling Software**
- BRAE 446 CAD for Land Modeling (TERRAMODEL) (2)

**Arc/INFO**
- FNR/LA 318 Applications of GIS in Natural Resources (3)

**Capstone Course**
- FNR/BRAE/LA/CRSC 470 Selected Advanced Topics (3)

**Emphasis areas**

Select one of the following two emphasis areas

**Environmental Information**
- BRAE 452 Boundary Law/Data Accuracy for GIS (3)
- FNR 306 Natural Resource Ecology and Habitat Management (4) or BIO 325 General Ecology (4)
- FNR 416 Environmental Impact Analysis (4)

**Precision Agriculture Emphasis**
- CRSC 444 Precision Farming (4)

Choose 2 of the following 7 classes:
- CRSC 405 Advanced Weed Science (4)
- CRSC 410 Crop Physiology (4)
- CRSC 421 Oil and Fiber Crops (4)
- CRSC 431 Advanced Insect Pest Management (4)
- CRSC 445 Cropping Systems (4)
- SS 433 Land Use Planning (3)
- VGSC 423 Advanced Vegetable Science (4)

**Total units for the minor**

30
As early as January 1975, it was documented that final exam conflicts occur when classes are scheduled two hours/two days a week. With more classes moving to 4 units and given the opportunity to schedule in this pattern, the number of conflicts has increased. Example of two conflicts is attached.

Three final exam proposals were given campus consultation by the Registration & Scheduling Committee, the Academic Senate Instruction Committee, and the Curriculum Committee during Spring Quarter 1997. It was also sent to each dean’s office with instructions to disseminate to each academic department for discussion. During the Fall Quarter 1997 it was brought before the Instructional Department Heads Council. Students are represented on the Registration and Scheduling Committee and the Instruction Committee.

Final Exams are referenced in CAM 484.1. Rescheduling of a final exam (this includes common final examinations, which were approved by Academic Senate on 3-4-74 and implemented Fall 1974) is outlined as follows:

**484.3 Final Examinations—Rescheduling**

Under unusual circumstances, it may be deemed advisable to reschedule a final examination to be held at a time and/or location other than that regularly scheduled. The instructor in consultation with the Class Scheduling Office will determine whether the anticipated change can be made. If a suitable new time and location can be established, the instructor will then, in writing, submit the request through the department head to the dean of the college. The request will indicate the course and section(s) to be changed, the reason for the request, the new time and place for the alternate examination, an indication that at least two-thirds of the class is in agreement with the change, and a statement that an examination will be held at the regularly scheduled time and place for those students who are unable or unwilling to attend the final examination at the rescheduled hour.

**Statistics on Common Final Exams**

**1997 Winter**
1,685 lecture sections offered
11 common finals scheduled (34 sections/1,049 students)
  3 Sci & Math/8 Engr

**1997 Spring**
1,598 lecture sections offered
10 common finals scheduled (32 sections/915 students)
  2 Sci & Math/8 Engr

**1997 Fall**
1,776 lecture sections offered
12 common finals scheduled (37 sections/1,212 students)
  1 Bus/3 Sci & Math/8 Engr

prepared by: Debbie Arseneau, Instructional Space & Scheduling Analyst
Institutional Planning & Analysis
1/12/98 756-2461
TR 12-2pm class should have a final T 11-2pm; but it conflicts with the MWF 2-3pm class final.

General Information

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<th>EXAM TIME</th>
<th>MONDAY</th>
<th>TUESDAY</th>
<th>WEDNESDAY</th>
<th>THURSDAY</th>
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<td>T 0700 MWF 0700</td>
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</table>

Lecture classes which meet on Friday or Saturday only or those which meet on Wednesday only at 0700, 0800, 1200, 1300, 1400, 1500, 1600, or Thursday only at 1500 or 1800 will have their examination at the last regular meeting of the class.
482.4 Schedule

The annual updating of the academic master plan occurs in the fall and winter quarters. Each academic department is expected to complete its recommendations by approximately December 1. The review bodies study the proposals in time to permit the President to submit the university proposal by approximately April 1. Forms, guidelines, flow charts and deadlines are available in the office of the Vice President for Academic Affairs.

483 Faculty Workload Formula

The faculty workload formula is an instrument used to establish for budgetary purposes the number of full-time teaching positions required to staff the instructional program. The formula is in use at all campuses of The California State University and Colleges and affords an objective means of providing for differences in program among the campuses, especially in terms of specialized, technical, and graduate offerings.

The formula is based on the projected annual average number of students to be served. Since the formula calculations are completed approximately 18 months in advance of implementation, the actual enrollment and number of faculty positions may vary from the projections. (See also CAM 370.2, E.)

483.1 Assignment of Faculty

Although the faculty staffing formula is strictly a budgetary instrument, it is nonetheless used as a guide in the assignment of faculty positions to the schools and departments. No such formula, however, is perfect. In order to provide flexibility desirable in the development of new programs and in assigning faculty to special duties outside the classroom, allocations of faculty positions to departments may vary from the formula figure.

484 Examinations

484.1 Final Examinations

A. Lecture Courses

The university's schedule for final examinations for lecture courses will be included in each issue of the quarterly Class Schedule. The schedule, drafted by the Associate Dean, Educational Services, and approved by the Vice President for Academic Affairs, will designate an examination time for each time block in which lecture sections are normally scheduled. Examinations will be held at the time designated in the schedule and, unless the class and instructor have been notified otherwise, at the location in which the class was assigned to meet during the quarter.

The maximum time for which a facility will be allotted for a lecture section final examination is as follows: one hour for a section meeting one or two hours per week; two hours for a section meeting three hours per week; three hours for a section meeting four or more hours per week.

B. Nonlecture Courses

Final examinations in nonlecture courses will be held during the last class meeting in the regularly assigned meeting location.

484.2 Final Examinations—Exempt Courses

Final examinations will be given in all sections of lecture and nonlecture courses unless exempt under the provisions contained in CAM 484.2. Examination exemptions may be granted for such reasons as uniqueness of course content or method of instruction, and/or a more appropriate procedure for establishing a final evaluation of the student's performance in the course. Exemptions ordinarily will be established at the time the course is proposed by the department for inclusion in the University Catalog. In unusual circumstances, a faculty member may petition for exemption after the course has begun. Requests for such exemption will be submitted in writing to the school dean through the department head for approval.
484.3 Final Examinations--Rescheduling

Under unusual circumstances, it may be deemed advisable to reschedule a final examination to be held at a time and/or location other than that regularly scheduled. The instructor, in consultation with the Associate Dean, Educational Services, will determine whether the anticipated change can be made. If a suitable new time and location can be established, the instructor will then, in writing, submit the request through the department head to the dean of the school. The request will indicate the course and section to be changed, the reason for the request, the new time and place for the alternate examination, an indication that at least two-thirds of the class is in agreement with the change, and a statement that an examination will be held at the regularly scheduled time and place for those students who are unable or unwilling to attend the final examination at the rescheduled hour.

484.4 Special Student Arrangements

Permission to take final examinations out of schedule may be granted by the dean of the school in which the course is offered for the following reasons only:

A. Student going into the Armed Forces.
B. Death or serious illness in the student's family.
C. Student requested by the university to represent the university at some educational activity. Written statement by the person sponsoring the conflicting activity must be presented to the deans of all schools in which the student is taking courses involved in the examination conflict.
D. Illness of the student.
E. Permanent job placement interview arranged by the university.

484.5 Midterm Examinations

Examinations are given during normal class meetings. No schedule is published.

484.6 Student Conflicts

Examinations which conflict with university activities should be brought to the attention of the school dean as early as possible.

484.7 Procedures During Examination

Faculty members should make every effort to reduce cheating by appropriate examinations properly monitored. (See also CAM 674.)