Meeting of the
Academic Senate Executive Committee
Tuesday, January 6, 1998
UU220, 3:00-5:00pm

I. Minutes: Approval of the Academic Senate Executive Committee minutes for the October 14 and November 4, 1997 meetings (pp. 2-6).

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

III. Reports:
   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:

IV. Consent agenda:
   A. Curriculum proposals: Keesey, chair of the Curriculum Committee: 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 margin. These 11 courses appear as Business item C below (pp. 7-56).
   B. Courses proposed for U.S. Cultural Pluralism requirement: Keesey, chair of the Curriculum Committee (p. 57).
   C. Courses proposed for General Education & Breadth: Keesey, chair of the Curriculum Committee (pp. 58-60).

V. Business item(s):
   A. Academic Senate/university-wide committee vacancies: (p. 65).
   B. Committee selection procedures for the position of Vice Provost for Academic Programs.
   C. 1998 Catalog Proposals Approved Pending/Disapproved: Keesey, chair of the Curriculum Committee: Courses in this section were not recommended for approval by the Curriculum Committee and are included here for general discussion (pp. 61-62).
   D. 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 (pp. 63-64).

VI. Discussion item(s):
   Catalog rights: Keesey, chair of the Curriculum Committee: The Curriculum Committee has recommended that Cal Poly return to the old system under which students could choose any interim catalog, not just the matriculation or graduation catalogs.

VII. Adjournment:
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
COLLEGE OF AGRICULTURE
1998 CATALOG COURSE CHANGES

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
CHANGED COURSES (continued)

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)
COLLEGE OF AGRICULTURE
1998 CATALOG COURSE CHANGES

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
COLLEGE OF ARCHITECTURE & ENVIRONMENTAL DESIGN
1998 CATALOG COURSE CHANGES

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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- APPROVED AS 400 LEVEL
- INTO EXISTING BUS COURSE
COLLEGE OF ENGINEERING
1998 CATALOG COURSE CHANGES

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 Aero thermodynamics (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
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1998 CATALOG COURSE CHANGES

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
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1998 CATALOG COURSE CHANGES

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) 2 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
COLLEGE OF LIBERAL ARTS
1998 CATALOG COURSE CHANGES

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 mcfto (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.I.b.) (with BIO 228: replacing CONS 120 and CONS 210)
BIO 228  Wildlife Biology Laboratory (1) 1 lab (B.I.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.I.a.)
CHEM 111 Survey of Chemistry (5) 4 lec 1 lab (B.I.a.) (replacing CHEM 121 and CHEM 122)
CHEM 337 Clinical Chemistry I (2) 2 lec (B.I.a.)(with CHEM 338, replacing CHEM 335 (B.I.a.))
CHEM 338 Clinical Chemistry I Laboratory (1) 1 lab (B.I.a.), cr/nc (with CHEM 337, replacing CHEM 335 (B.I.a.))
CHEM 353 Physical Chemistry III (3) 3 lec (B.I.a.) (with CHEM 357, replacing CHEM 307 Physical Chemistry (4) 3 lec 1 lab (B.I.a.)
CHEM 354 Physical Chemistry Laboratory (2) 2 lab (replacing CHEM 355 (B.I.a.), 356 (and 302?))
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.I.a.) to CHEM 212 Survey of Organic Chemistry (5) 4 lec 1 lab (B.I.a.)

CHEM 328 Survey of Biochemistry (4) 3 lec 1 lab (B.I.a.) to CHEM 313 Survey of Biochemistry and Biotechnology (5) 4 lec 1 lab (B.I.a.)

CHEM 331 Quantitative Analysis (5) 3 lec 2 lab (B.I.a.) to CHEM 231 (B.I.a.)

CHEM 371 Biochemical Principles (4) 3 lec 1 lab (B.I.a.) to (5) 4 lec 1 lab (B.I.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>DANC X311 American Musical Dance Theatre GEB C3</td>
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<td>Asian Art Survey (4)</td>
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<td>ART 318</td>
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<td>ENGL 353</td>
<td>Modern Drama in London to Drama in London</td>
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Courses Proposed for GEB - 1998 Catalog

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<td>ES 230</td>
<td>Chicano/a Literature (3) to ES 300 (4) USCP</td>
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<td>ES 320</td>
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<td>KINE 255</td>
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<td>American and California Government to POLS 110 (number change only)</td>
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<td>POLS 370</td>
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### Courses Proposed for GEB – 1998 Catalog

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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.
### 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**

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<td><strong>Change name</strong> Parks and Forest Recreation Concentration to Natural Resources Recreation Concentration (BS Forestry and Natural Resources, BS Recreation Administration)</td>
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<td><strong>Change name of Concentration:</strong> Commercial and Corporate Fitness to Commercial/Corporate Health Promotion (BS Physical Education to BS Kinesiology)</td>
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<td><strong>Change name of Concentrations</strong> (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</td>
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<th><strong>SPECIALIZATIONS</strong></th>
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<td>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)</td>
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<tr>
<td>New Geographic Information Systems for Agriculture Minor (Bioresource and Agricultural Engineering Department)</td>
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<td>Relocate Values, Technology and Society Minor to Humanities Program</td>
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Academic Senate Committee Vacancies
For 1997-1998

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<td>Library Committee</td>
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<th>University-wide committees:</th>
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<td>Resource Use Committee</td>
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THE POSITION: Cal Poly seeks a dynamic leader for the position of Vice Provost for Academic Programs and Undergraduate Education. The Vice Provost plays a major role in promoting the unique educational environment of a polytechnic university and the best characteristics of an integrated, student-centered teaching and learning community. The Vice Provost provides effective leadership for all academic programs on campus, especially undergraduate, and has direct oversight responsibility for new program development, the Honors Program, the General Education Program, and program renewal, and accreditation. The Vice Provost is a key institutional leader in supporting faculty instructional development, articulating and implementing academic goals, and fostering greater seamlessness between academic and student affairs in such areas as learning outcomes, the "informal" curriculum, and service learning. As the University's primary liaison, the Vice Provost has responsibility for institutional and specialized accreditation. The Vice Provost has approval authority for student academic disqualification appeals and requests for curricular deviations. The Vice Provost has primary responsibility for the University catalog and interacts regularly with representatives of the California State University system office. The Vice Provost reports directly to the Provost and Vice President for Academic Affairs and directly supervises the staff of the Academic Programs Office. In addition, the Directors of the Writing Skills Program and the Global Affairs Office report to the Vice Provost.

QUALIFICATIONS: An earned doctorate or terminal degree in one of the instructional areas of the University. Distinguished academic background in teaching, scholarship, and service sufficient to warrant appointment as a full professor in an academic department of the University. Experience collaborating with faculty, students, and administrators in the design and delivery of academic programs within a strategic planning context. Evidence of a strong commitment to excellence in undergraduate education, graduate education, and professional studies, and fostering intellectual community.

Successful academic administrative experience preferably at the level of department head or above at a college or university. Experience and creativity in addressing contemporary curricular issues related to student-centered learning and technology, program assessment and accountability, telecommunication and distributed learning, and other challenges facing a comprehensive, polytechnic, public university. Demonstrated commitment to shared collegial governance and ability to develop cooperative working arrangements at all levels of the university. A positive record demonstrating sensitivity to and support for building a culture of diversity within the university. Superior communication and interpersonal skills.

COMPENSATION: Salary is commensurate with the background and experience of the individual selected. Cal Poly offers excellent fringe benefits. All rights associated with appointment are governed by the Management Personnel Plan adopted by the CSU Board of Trustees. Position is classified as Administrator IV, 12-month.

APPLICATIONS AND NOMINATIONS: Each application should include a current resume; the names, addresses, and telephone numbers of at least three professional references; and a letter providing some detail of the applicant's qualifications and interest in the position. The preferred starting date is July 1, 1998. The position will remain open until filled, however, applicants are encouraged to submit materials by February 23, 1998. Applications, nominations, and inquiries should reference recruitment code 8M070 and be addressed to:

Dr. Paul J. Zingg
Provost and Vice President for Academic Affairs
California Polytechnic State University
San Luis Obispo, CA 93407
Phone: (805) 756-2844
Fax: (805) 756-5185
E-mail: AcademicPersonnel@polymail.calpoly.edu
MEMORANDUM

Date: January 6, 1998

To: All Full-Time Faculty

From: Anny Morrobel-Sosa, Chair
       Academic Senate

Subject: Consultative Committee for Vice Provost for Academic Programs and Undergraduate Education

The Academic Senate is seeking four full-time faculty members interested in serving on the above named search committee. The full committee will be formed by the end of January 1998, and it will start reviewing applications at the end of February. The committee is anticipated to meet once a week (twice a week during interviews) during winter and spring quarters, and the start date for the position is July 1, 1998.

If you are interested in serving on this committee, please send the following information to mcamuso@calpoly.edu or Margaret Camuso at the Academic Senate office (38-143):

"I, ___________________________, am a full-time faculty member in the department of __________________, college of __________________. I am interested in serving on the Consultative Committee for Vice Provost for Academic Programs and Undergraduate Education. I can be reached at my office phone number ____________ or my email address ___________________.”

YOUR RESPONSE MUST BE RECEIVED IN THE ACADEMIC SENATE OFFICE BY FRIDAY, JANUARY 16, 1998 IN ORDER TO BE CONSIDERED.
Cal Poly Memorandum

Date: Dec. 22, 1997

To: Paul Zingg
Copies: DAAC
Provost & Vice President for Academic Affairs

From: Dean's Advisory Admissions Committee
       Roxy Peck, Chair

Subject: MCA Recommendation for 1998 Admission Cycle

The Dean's Advisory Admissions Committee has studied possible short-term modifications to the MCA admissions process that might enable Cal Poly to enroll an entering freshman class that would reflect more closely the socio-economic diversity of the applicant pool than would a straight 100% academic run. Although the time available for completion of this study was limited, the DAAC was able to examine several possible models and assess impact of these models on a number of programs thought to be representative of those at Cal Poly. A summary of the work completed by the DAAC and its MCA workgroup has been provided in a separate memo.

At its meeting of Dec. 16, 1997, the DAAC approved the following recommendations unanimously.

Recommendations:

1. The 60% straight academic run be maintained.

2. The minimum qualifications and college minimum MCA scores be maintained at their current levels.

3. For the 1998 admissions cycle, bonus points be awarded based on family income, mother's educational level, and father's educational level as follows:

   Family Income 250 points if family income is below $36,000 (the lowest two income groups)

   Mother's Education 500 points if mother has not completed high school (the lowest two educational categories)

   Father's Education 500 points if father has not completed high school (the lowest two educational categories)
4. A more thorough and less hurried study of MCA admissions models should be undertaken and the Fall 1998 admissions cycle be assessed prior to making decisions about adjustments to the MCA for subsequent years.

5. Retention of students admitted under the proposed MCA model should also be examined over the subsequent year.

Tables 1 - 3 (attached) show the distribution of family income and parental education for the applicant pool, as well as the distribution of admitted students under a 100% academic run and using the proposed model, for three of the programs examined. These results were typical of the ten programs studied by the DAAC.
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