Supplement to The University of Arizona 1983-84 1984-85 Catalog

The University of Arizona
1885
One Hundred Years
1985
A Proud Beginning

RECORD
SUPPLEMENT TO
THE UNIVERSITY OF
ARIZONA
1983-84 1984-85 Catalog

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All colleges and departments establish certain academic requirements which must be met before a degree is granted. These requirements concern such things as curricula and courses, majors and minors, and campus residence. Advisers, directors, department heads, and deans are available to help the student understand and arrange to meet these requirements, but the student is responsible for fulfilling them. At the end of a student's course of study, if requirements for graduation have not been satisfied, the degree will not be granted. For this reason it is important for each student to be acquainted with and remain currently informed about all regulations, and to be responsible for completing requirements. Courses, programs, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the University and the Arizona Board of Regents. The catalog does not establish a contractual relationship, but it summarizes the total requirements which the student must presently meet before qualifying for a faculty recommendation to the Arizona Board of Regents to award a degree.

The determination of acceptability of credit for course work completed at another institution of higher learning, whether the other institution is accredited or not, is made solely at the discretion of this institution as guided by its academic policy bodies. Students are advised to check with the Department of Admissions and Records to determine the acceptability of credit from other institutions and its applicability toward a program of study at the University of Arizona.

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Announcements in this supplement concerning regulations, fees, curricula, or other matters, are subject to change without notice. Inquiries regarding admission to the University should be addressed to:

The Dean of Admissions and Records
The University of Arizona
Tucson, Arizona 85721
(602) 626-3237

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Approved January 13, 1984

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Approved March 5, 1984

I. College of Engineering: establishment of a 2.5 GPA minimum requirement for all transfer students to be effective I 84-85
II. COURSE AND CATALOG CHANGES

P. 30, General Catalog, under General University Information should read "ARTS AND SCIENCES—Students are strongly urged to present one unit of algebra, one unit of intermediate algebra, one unit of plane geometry, and two units of a foreign language." Effective I 83-84.

P. 73, under section "Honorary and Professional Societies, Other Organizations", in Scholastic Honorary Societies in the second line of the first column, delete "Men". Effective I 85-86.

P. 73, under Scholastic Honorary Societies, in the second column after "Phi Kappa Phi -- All Colleges", add "Pi Lambda Theta -- Education". Under Professional Organizations, in the second column, after "Pi Alpha Alpha", add "Pi Lambda Theta -- Education". Effective II 83-84.

P. 165, Graduate Catalog, headnotes under subheading Geography should read: "All applicants are required to submit scores on the aptitude sections of the Graduate Record Exam. Admission to the Doctor of Philosophy degree program requires the recommendation of the committee administering the final examination for the Master of Arts degree or, if the Master's degree was earned elsewhere, admission is subject to passing a qualifying examination during the first semester of resident graduate study."

"All students working toward the Master of Arts degree are required to complete 485, 500, 557, and 589 during the first year in residence. In addition, students will normally enroll in 696a, Master's Research Seminar, each semester they are in residence, up to a maximum of 12 units. Students are required to have a minimum of 18 units of geography at the 500 or 600 level; 696a may be used to meet this requirement. The remainder of the program is selected, with the approval of an adviser, from geography and supporting disciplines. Courses may include geography courses at the 400, 500, or 600 level or courses outside the department. Students are urged to write a thesis; those intending to continue to the doctorate should do so. Students electing the thesis option must pass a final oral examination. Those electing the nonthesis option must pass a written and oral comprehensive examination."

"No thesis is required for the Master of Education degree program. For further information concerning this degree, see Requirements for Master's Degrees/Master of Education elsewhere in this catalog."

"Students working toward the Doctor of Philosophy degree must, in addition to the requirements for the Master of Arts degree, complete 18 units in geography (exclusive of the dissertation) and no fewer than 12 additional units of 500 or 600-level courses. Doctoral students are required to enroll in 696b, Doctoral Research Seminar, each semester they are in residence, up to a maximum of 12 units. Students must also achieve high-level competence in two fields of concentration, one topical and one regional, and will ordinarily complete 6 units of work in each. Topical concentrations available are behavioral, cultural,
economic, historical, physical, and urban geography. Regional concentrations are Anglo-America (United States), arid lands, and Latin America. Doctoral language requirements may be met by one of three options: a reading knowledge of French or German and one other approved language; high proficiency in the use of one approved language; or a reading knowledge of an approved language and completion of an eleven-unit sequence in statistics/computer science to be prescribed by the departmental faculty. The minor or minors may not be within the department and must be complementary to the student's program of specialization. The dissertation should incorporate aspects of both the topical and regional concentrations chosen. More detailed information may be obtained by writing to the head of the department." Effective I 83-84.

COLLEGE OF AGRICULTURE

P. 83, under section "Minimum Requirements for Undergraduate Degrees in Agriculture", in Group I, delete Phys. Ed. and units under Ag., Ag. Sci., and Ag.Bus.* curriculum. Change (Group Total) to "12". Effective I 83-84.

P. 83, under section "Minimum Requirements for Undergraduate Degrees in Agriculture", in Group III, under the Ag. Bus* curriculum, change units for Math. or Stat. to "9" and (Group Total) to "20". Effective S, 1983.

P. 86, under section "Minimum Unit Requirements for Undergraduate Degrees in Renewable Natural Resources and Landscape Architecture", in Group I, delete "Phys.Ed." and units under "B.S. in R.N.R." and "B.L.A.". Effective I 83-84.

P. 428, under Wildlife and Fisheries Science, in the list of requirements in the sixth line of the second paragraph, add "WSM 480"; in the seventh line, delete "340" and add "or VSC 250" after "243b". Effective I 84-85.

COLLEGE OF ARTS AND SCIENCES

P. 96, under section "IV Science/Mathematics", in the third line of the description, delete "105a or 105b or". Effective I 883-84.

P. 102, insert in section on "DOUBLE MAJOR" after the first sentence: "No course may be applied to both majors without the permission of both major advisors." Effective I 83-84.

P. 214, in the fourth paragraph under "C. Photography emphasis", in the fifth line following "including" add "342 and". Effective II 83-84.

P. 321 under Linguistics, in the third line of the third paragraph, following "Phonetics: (260," delete "412" and add "413". Effective I 83-84.
P. 113 under MAJOR FIELDS AVAILABLE, after the sentence in the third paragraph, insert "BPA students will not be allowed credit for more than one policy course in their degree program." Effective I 83-84.

P. 114, under Management Information Systems, in the second paragraph, change "(a)" to read: "All students in this major will complete M.I.S. 301, 307, 341, and 441." Effective II 83-84.


P. 117, under Public Management, change "(a)" to read: "All students in this major will complete 12 units selected from P.P.P.A. 401, 412, 414, Mgmt. 330, 475." Effective I 84-85.

P. 118, under "Management Emphasis Areas", change "(b)" to read: "Three units of coursework selected from Mgmt. 435, 474, 475." Effective I 84-85.

COLLEGE OF EDUCATION

P. 128, under Open Courses, in the sixth line, delete "310" and add "320a-320b, 325". Add "419" after "410"; in the seventh line, following "480", add "485". Effective II 83-84.

P. 128, under "Open Courses", in last line after "470", add "471". Effective I 83-84.

P. 130, under "Major in Rehabilitation", in third paragraph, insert "educational psychology" after "anthropology". Effective I 83-84.

P. 131, after "Major in Rehabilitation", add "Minor in Rehabilitation". Description will read: "Rehabilitation is concerned with the knowledge and methods necessary to assist physically, mentally or socially disabled adults to a more productive life. An 18-unit, non-teaching minor is offered at the undergraduate level (see departmental head-notes)." Effective II 83-84.

ACCOUNTING

405. NEW COURSE: "Foundations of Accounting and Auditing Theory (3) GC I II Theoretical frameworks and analytical tools appropriate to the development and implementation of accounting and auditing theories. P, 310, Mgmt. 275."
410. Add prerequisite "405". Effective I 83-84.

420. Add "Advanced Business Law (3) GC I II (Identical with Mgmt. 420)". Effective II 83-84.

431. Add prerequisite "405". Effective I 83-84.

AEROSPACE AND MECHANICAL ENGINEERING

408. Add crosslisting with Systems and Industrial Engineering. Effective I 83-84.

465. Add (Rpt. 1/6 units). Effective II 82-83.

503. NEW COURSE: "Modeling and System Identification in Dynamic Engineering Systems (3) I 1984-85 Principles of mathematical modeling of engineering problems; state and parameter identification techniques; lumped and distributed system; open loop (explicit) and closed loop (implicit) applications; frequency and time domain representation; deterministic and stochastic inputs. P, 310, CR 405."

507. NEW COURSE: "Engineering Design Optimization (3) II Theory and practice of optimal design as an element of the engineering design process. Relationship to creativity, modeling, analysis, computation, and decision-making. Mechanical and structural systems applications. P, 310, 409a."

508. Add crosslisting with Systems and Industrial Engineering. Effective I 83-84.

518. Add crosslisting with Systems and Industrial Engineering. Effective I 83-84.


557. Add "Applied Combustion (3) II 1984-85 (Identical with Ch.E. 557)."


AGRICULTURAL ECONOMICS

442. Add "Transformation of Agrarian Societies in the Middle East (3) GC II (Identical with Or. S. 442, Pol. 442, Soc. 442)."
AGRICULTURAL EDUCATION

385. Change prerequisites to: "P, 338a and 409 or CR." Effective II 83-84.

497p. Change course number to "597g". Effective I 82-83.

597a. Change course number to "497i." and add "GC". Effective II 83-84.

597g. Change course title to "Microcomputers-Extension". Effective I 82-83.

AGRICULTURE

431. NEW COURSE: "Anthropology and Development (3) GC II 1985-86 The role of anthropology in interdisciplinary projects involving economic development and planned change on the national and international levels."

453. Add "GC". Effective I 82-83.

501a-501b. NEW COURSE: "Medical Anthropology (3-3) 501a: Examination of human populations' adjustment to a variety of pathogens using case studies of health professionals, nutritionists, and anthropologists. 501b: Role of anthropology in facilitating the introduction of modern medicine to traditional societies; traditional medical systems; growth of modern medicine; modern medicine in traditional societies. 501a is not prerequisite to 501b. Consult department before enrolling."

AMERICAN INDIAN STUDIES

205a-205b. Course being revised. New listings will read:

205. Prehistoric Peoples of the Southwest (3) I II (Identical with Anth. 205) Effective I 83-84.

206. Native Peoples of the Southwest (3) I II (Identical with Anth. 206) Effective I 83-84.

449a. Add "GC". Effective I 83-84.

449b. Add "Folklore (3-3) GC (Identical with Anth. 449a-449b and Engl. 449a-449b)". Effective II 83-84.

595a. NEW COURSE: "Theory and Indian Studies (3) II P, 502a-502b or Pol. 484a-484b."
605. Delete "Phase" and add, as the last sentence, "Consult department before enrolling." Effective I 83-84.

805. Change offering to "II". Effective II 83-84.

ANIMAL SCIENCES

414. Change semester offered to "I"; delete the words "and lab". Effective I 83-84.

ANTHROPOLOGY

205a-205b. Course being revised. New listings will read:

205. Prehistoric Peoples of the Southwest (3) I II Nontechnical discussion of the lifeways of the ancient people of the Southwest (Identical with A.In.S. 205). Effective I 83-84.

206. Native Peoples of the Southwest (3) I II Nontechnical discussion of the Southwestern Indian cultures from historic times to the present (Identical with A.In.S. 206). Effective I 83-84.

301. Course description should read: "Witchcraft and the occult in cross-cultural perspective with emphasis on the positive implications of psychic phenomena." Effective I 83-84.

420. Change offering to "(1983-84)". Effective I 84-85.


449a. Add "GC". Effective I 83-84.

449b. Add "Folklore (3-3) GC (Identical with A.In.S. 449a-449b and Engl. 449a-449b)". Effective II 83-84.

680a-680b. NEW COURSE: "Foundations of Linguistic Anthropology (3-3) Major theoretical and methodological issues in linguistic analysis. Language as a cultural code, biological foundations, universals and typology, language and social reality, textual analysis."

ARCHITECTURE

287. NEW COURSE: "Architecture and Behavior (3) (Rpt./1) I Human behavior, information processing, social organization and culture as related to the built environment; readings and projects analyzing specific environments; applications for predesign programming and post-occupancy evaluation."
219. Change course number to "319". New title and course description will read: "Introduction to American Art (3) II Survey of American Architecture, painting, sculpture, photography, and the decorative arts from colonial times to present." Effective II 84-85.

229. Add "Art History of the Cinema (3) I (Identical with Clas. 229)".

319. Change course number from "219". Effective II 84-85.

342. NEW COURSE; "Contemporary Photo Since 1950 (3) I Slide presentations and discussions of major photographers since 1950. 2R, 2S."

430. Delete "GC". Effective II 83-84.

436. NEW COURSE; "Community Arts Careers (3) GC I Structure and function of community arts agencies with emphasis on their relationship to art education theory and practice."

438. NEW COURSE; "Art Criticism in Art Education (3) GC II 1983-84 Methods of analyzing art works and aesthetic experiences appropriate to art classroom teaching. Videotapes, films and readings illustrate concepts and terminology."

481. Change to "Studio Courses" section. Effective I 83-84.

530. NEW COURSE; "Introduction to Research in Art Education (3) I II Development of competency in application of language, methods, and diverse research procedures used in the visual arts and education as demonstrated by a scholarly written research report."

533. NEW COURSE; "Art Curriculum Development (3) II 1983-84 Critical analysis of theory and practice of art curriculum development for various educational settings. Preparation and evaluation of innovative art curriculum materials."

596g. NEW COURSE;: "Colonial and 19th-Century American Art (3) (Rpt./3) I 1984-85. Field trips."

638. NEW COURSE; "History and Philosophy in Art Education (3) I 1983-84 Critical examination of literature containing fundamental concepts that have shaped the development, scope, and current significance of art education."
BIOCHEMISTRY

P. 222, under headnotes, the second, third and fourth paragraphs should read: "The University Department of Biochemistry offers the Bachelor of Science, Bachelor of Arts, Master of Science, and Doctor of Philosophy degrees with a major in biochemistry. Applicants are not admitted directly to the Master of Science program. The degree is awarded only in rare instances when individuals admitted to Ph.D. programs are forced to terminate early."

"The major for the B.S.: Chem. 103a-103b and 104a-104b, or 105aH-105bH, 241a-241b, 245a-245b, 325, 326, 480a and 480b or 481; Math. 125a-125b, 223; Phys. 103a-103b; Gbio. 103, 104; Bioc. 462a-462b, 463, 494, 496a (two units), and ten upper-division units in biol., chem., math., or phys., exclusive of individual studies. All students will participate in a senior research Practicum (494) for a minimum of three units after taking 462a-462b and 463. Senior research is conducted in the laboratory of a faculty member with approval of the advisor."

"The major for the B.A.: Chem. 103a-103b and 104a-104b, or 105aH-105bH, 241a-241b, 243a-243b, 325, 326, 480a; Math. 117f, or 117e and 118, 125a; Phys. 102a-102b; Gbio. 103, 104; Bioc. 462a-462b, 463, 496a (two units); and six upper-division units in biol., chem., math., or phys., exclusive of individual studies. Those applying for medical school should take Gbio. 320 in preparation for the Medical College Admission Test (MCAT)."

"The minor for both undergraduate degrees consists of 20 units of lower-division courses in chem. and math." Effective II 83-84.

460. Change units to "(5)". Add crosslisting "(Identical with NFS 460)". Effective I 83-84.

462a-462b. Add "and biol." after "minors in bioc., chem.". Effective II 83-84.

496a. Add "Consult department before enrolling." Effective II 83-84.


570. Molecular Biology of the Cell Membrane (3) I 1984-85. Cell membrane functions including biosynthesis, structures of membrane components; importance of cell communication, differentiation, adhesion, immune response, and cancer. Discussions on the use of monoclonal antibodies, recombinant DNA technology, and

665. Add "Chemistry of Food Proteins (3) II 1983-84 (Identical with NFS 665)." Effective I 83-84.

BUSINESS AND CAREER EDUCATION

488. Add "Microcomputer Application (3) GC I II S (Identical with ED.F.A. 488)."

CELLULAR AND DEVELOPMENTAL BIOLOGY

465. NEW COURSE; "Advanced Neurobiology (2) {Rpt./4} GC II Selected topics in current research on vertebrate and invertebrate nervous systems. p, 463.

CHEMICAL ENGINEERING

465. Add [Rpt. 1/6 units]. Effective II 82-83.

557. NEW COURSE: "Applied Combustion (3) II 1984-85 Laminar, turbulent, premixed and diffusion flames; flammability limits, C-J detonation. Fossil fuel combustion in furnaces, propellant combustion, air breathing engines, and fire safety. P. 306b, AME 340b. (Identical with AME 557)."

CHEMISTRY

100a-100b. DELETE: "Contemporary Natural Science (4-4)."

324. NEW COURSE: "Principles of Analysis II (2) I Survey of modern instrumental methods of analysis: spectrochemistry, gas chromatography, electroanalytical and thermal methods of analysis, radiochemistry. Open to nonmajors only. P, 322 or 325."

460. Change units to "(5)". Effective I, 83-84

CIVIL ENGINEERING AND ENGINEERING MECHANICS

Civil Engineering

337. In description, delete "design in timber". Effective II 83-84.

440. Change description to "Site and subsurface investigations, design of footings and pile foundations; design of foundations on collapsing and swelling soils; computer methods." Effective I 83-84.

454. Delete "I". Effective I 83-84.
522. NEW COURSE; "Hydropower Engineering (3) II Hydrologic analysis, evaluation of site potential, turbine selection, power plant civil works, project feasibility. P, 322, 423."

525. NEW COURSE; "Water Quality Modeling (3) I Deterministic and stochastic modeling of surface water systems with emphasis on water quality management functions. Applications and modifications of Streeter-Phelps technique for predicting oxygen levels in streams. P, 321. (Identical with Hydr. 525)."

560. Add "Ground-Water Management (3) II (Identical with Hydr. 560)."

574. NEW COURSE; "Solid and Hazardous Waste Management (3) II Engineering, legal, planning, and management aspects of solid and hazardous wastes; overview of waste generation, collection, transport, processing, recovery, and disposal; emphasis on municipal wastes."

575. Change course title to: "Microbiology of Environmental Engineering". Effective II 83-84.

576. Change course title to: "Chemistry of Environmental Engineering". Effective II 83-84.

596b. NEW COURSE: "Geomechanics/Mechanics (1) II (Identical with E.M. 596b)."

637. NEW COURSE: "Soil-Structure Interaction (3) I 1985-86 Soil-structure interaction, closed form and numerical solutions, beams, axially and laterally loaded piles and walls, wave equation for piles, group piles, slabs on deformable media. P, 640 or 641 or consult department before enrolling."


676. Change course title to: "Advanced Water Treatment System Design". Change course description to: "Design and operation of water treatment plants; physicochemical treatment processes for potable water production." Effective II 83-84.

Engineering Mechanics

505. Change units to "(4)". Effective I 84-85.
596b. Add "Geomechanics/Mechanics (1) II. (Identical with C.E. 596, which is home)."


CLASSICS

229. NEW COURSE: "Art History of the Cinema (3) I Survey of major artistic movements, including academicism, expressionism, cubism, and surrealism, and their influence on film in Germany, Italy, America, and France. (Identical with Art 229, Dram. 229)."

260. Add "Ancient Philosophy (3) I (Identical with Phil 260)."
Effective II 84-85.

460. Add "Greek Philosophy" (3) GC {Rpt.} II (Identical with Hist. 595f, which is home)."

595f. Add "Advanced Studies in Ancient History (3) II (Identical with Hist. 595f, which is home)."

COMPUTER SCIENCE

304. DELETE: "Advanced Scientific Programming (3)."

440. NEW COURSE: "Numerical Software (3) GC II Floating-point arithmetic; design and analysis of numerical algorithms; implementation issues; testing and performance measurement; software tools. P, a programming and a linear algebra course."

COUNSELING AND GUIDANCE

297a. Change units to "(1)". Effective II 83-84.

297b. Change units to "(2)". Effective I 83-84.

589. Add "Clinical Pharmacotherapy of Mental Disorders (3) II. (Identical with Ph.Pr. 589)."

602. Change home department to Higher Education. Retain crosslisting with Counseling and Guidance. Effective II 82-83.

607. Change home department to Higher Education. Retain crosslisting with Counseling and Guidance. Effective II 82-83.

617. Change home department to Higher Education. Retain crosslisting with Counseling and Guidance. Effective II 82-83.
661. Course being transferred to Higher Education. Crosslist course with Counseling and Guidance. Effective II 82-83.

DANCE

Transfer the following courses from the Department of Physical Education. Effective II 83-84.

112. Ballet
   a. Beginning Ballet
   b. Ballet for Beginners with Limited Experience P, 112a
   c. Intermediate Ballet

121. Character Ballet

143. Improvisation
   a. Beginning Improvisation
   c. Intermediate Improvisation

152. Modern Dance
   a. Beginning Modern Dance
   c. Intermediate Modern Dance

175. Theatre Dance

209. Percussion for Dance Students

240a-240b. Ballet Technique I

241a-241b. Modern Dance Technique I

244a-244b-244c-244d. Jazz Dance Technique

245a-245b. Basic Choreography

246. Rhythmic Analysis of Dance Forms

247a-247b. Basic Choreography

259a-259b. History of Dance

339. Ballet Pointe Preparation

340a-340b. Ballet Technique II

341a-341b. Modern Dance Technique II

343a-343b-343c-343d. Dance Repertory

346. Theory and Philosophy of Dance

394c. Practicum: Dance Project. Change course number to 394a.
394f. Practicum: Production Project. Change course number to 394b.

440a-440b. Ballet Technique III

441a-441b. Modern Dance Technique III

445. Advanced Choreography

496a. Proseminar: Dance Related Art Forms

Drama

229. Add "Art History of the Cinema (3) I. (Identical with Clas. 229)."

Ecology and Evolutionary Biology

101. NEW COURSE: "Environmental Biology (4) I Principles of ecology applied as background for understanding the interactions between the human species and natural ecosystems. Normajors orientation. 3R, 3L Field trip."

295a. NEW COURSE: "Ecology and Evolutionary Biology (1) (Rpt./1) II P, 102, consult dept. before enrolling."

Economics


497c. Add "GC". Effective S 1983.

560. NEW COURSE: "Theory and Institutions in Industrial Organization (3) II S Major issues in the field of industrial organization. Theoretical issues presented with complementary material dealing with specific American industries. P, 500a."

Educational Foundations and Administration

487. Add crosslisting "(Identical with Math. 487)." Effective II 83-84.

488. NEW COURSE: "Microcomputer Application (3) GC I II S The microcomputer as object, medium, and manager of instruction with emphasis on computer literacy, classroom use, and hands-on instruction. P. 487. (Identical with BEd. 488, Ed.P. 488, Elem. 488, Li.S. 488, Rdng. 488, Rhab. 488, S.Ed. 48, Spec. 488)."
EDUCATIONAL PSYCHOLOGY

458. Delete "GC". Effective I 83-84.

488. Add "Microcomputer Application in Education (3) GC I II S (Identical with Ed.F.A. 488)."

559. NEW COURSE: "Testing of Minorities (3) II Current theoretical, social, and practical issues in the use of norm-referenced tests with individuals from minority cultures."

615. Delete "Adult Learning and Development (3) I". Effective I 83-84.

655. NEW COURSE: "Evaluating Standardized Tests (3) I Technical standards for evaluating standardized tests and manuals with emphasis on the contemporary state of the field. P, 540, and 558 or CR."

ELECTRICAL AND COMPUTER ENGINEERING

101. Add "Not open for credit for students who have completed ECE 221." Effective I 83-84.

442. Add "GC". Effective II 82-83.

461. Change units to "(4)". In description, change "variable-frequency transformers" to "laboratory demonstrations and tests of transformers and rotating machinery." Effective I 83-84.

478. NEW COURSE: "Data Communications Networks (3) GC I Characteristics of ISO Open Systems Interconnection Reference Model; design of broad-band and baseband network interfaces; features of network, transport, session, and presentation layers; Ethernet and IEEE 802 interface. P, 371, 372."

545. NEW COURSE: "Decentralized Control and Large-Scale Systems (3) II Introduction to large-scale systems, definitions and special problems, modeling and model reduction, structural properties, decentralization of control and information, hierarchical and multi-level controllers. P, 501."

555. NEW COURSE: "Layout Engineering for Integrated Circuits (3) I Development of layout ground rules; circuit design and layout methods for low sensitivity to parameter variations; use of SPICE and UAMASK programs for circuit simulation and layout. P, 457 or 552."

558. NEW COURSE: "Advanced Integrated Circuits Laboratory (3) II All phases of design and fabrication of a modern integrated circuit
are considered and applied in the fabrication from concept to final test. 1R, 6L P, 457, consult dept. before enrolling."

ELEMENTARY EDUCATION

488. Add "Microcomputer Application in Education (3) GC I II S (Identical with Ed.F.A. 488)".

534. NEW COURSE: "Learning Through Play (3) I II S Play theories as they relate to early childhood development, parenting and curriculum design."

632. Change title to: "Math Diagnosis and Remediation" Effective II 82-83.

644. NEW COURSE: "Parent Education and Involvement (3) I II S Study of models for parent education; exploration of alternative strategies for improving parent/teacher interactions and parent involvement in the learning process."

695a. Change course number to "795a". Effective I 83-84.

697s. Add "Creating Classroom Alternatives (3) I II (Identical with S.E. 697s, which is home)."

ENGLISH

445. NEW COURSE: "Introduction to TESL: An Overview (2) GC I The development of English as a second language with emphasis on current trends, the influence of linguistic theory, and the international role of English."

449a-449b. Change crosslisting to "(Identical with A.In.S. 449a-449b and Anth. 449a-449b)". Effective II 83-84.

475. Add "GC", effective I 82-83. Delete "GC", effective II 82-83.

591a. NEW COURSE: "Methodology of Essay Writing (1) I II Designed for graduate teaching assistants in English."

591b. NEW COURSE: "Methodology in Critical Reading and Writing (1) I II Designed for graduate teaching assistants in English."

595a. NEW COURSE: "Rhetoric of Exposition (1) I II Designed for graduate teaching assistants in English."

595b. NEW COURSE: "Rhetoric of Literature and Critical Writing (1) I II Designed for graduate teaching assistants in English."
FRENCH AND ITALIAN

French

202a-202b. NEW COURSE: "Accelerated French (6-6) S 202a is the equivalent of 101a-101b; 202b is the equivalent of 201a-201b. Credit is allowed for this course or 101a-101b; 201a-201b, but not for both."

370. NEW COURSE: "Commercial and Technical French (3) I II The basic workings of the French economy and the essential vocabulary and style specific to French business. P, 201b or consult dept. before enrolling."

382a-382b. Change course number to "282a-282b". Effective I 83-84.

Italian

400a-400b-400c. Change description to: "400a. The Middle Ages and early Renaissance. 400b. The Renaissance, 17th and 18th centuries. 400c. The 19th and 20th centuries." Effective I 83-84.

450. NEW COURSE: "Renaissance Studies (4) S Taught in English. On-site study of the birth and development of the Italian Renaissance with emphasis on Florence. Offered only in Florence, Italy."

GENERAL BIOLOGY

100a-100b. Delete course.


GEOGRAPHY AND REGIONAL DEVELOPMENT

500. NEW COURSE: "Current Geographical Research (3) I Major trends and issues in human and physical geography. Field trips."

501. DELETE: "Advanced Physical Geography (3)."

502. DELETE: "Advanced Cultural Geography (3)."

696a. Change course number to "596a." Effective I 83-84.

696b. Change course number to "596b." Effective I 83-84.

696c. Change course number to "596c." Effective I 83-84.

696d. Change course number to "596d." Effective I 83-84.
696e. Change course number to "596e." Effective I 83-84.

696f. NEW COURSE: "Master's Research Seminar (3) {Rpt./12 units} I II."

796a. NEW COURSE: "Doctoral Research Seminar (3) {Rpt./12 units} I II."

GEOLOGICAL ENGINEERING

649. Add: Probabilistic Methods in Geotechnical Engineering (3) II 1985-86. (Identical with C.E. 649)."

GEOSCIENCES

295a. NEW COURSE: "Frontiers in Geosciences (1) {Rpt./4} I II."

474. NEW COURSE: "Geology and the Urban Environment (3) GC I II Geologic processes that result in loss of life and/or property damage; emphasis on case studies of urban areas in the Southwest. Implications for public policy. 2R, 3L. All-day field trips. (Identical with PPPA 474)."

506. NEW COURSE: "Analytical Techniques in Geology (4) II Strengths and limitations of methods and analysis of geologic material including XRF, XRD, microprobe, AA theory/experience, INAA, and mass spectrometry theory. 3R, 3L. Open to majors only. P, Chem. 103a-103b, Phys. 110, 116, 121."

GERMAN

P. 288, under German, in the first line of the third paragraph, following "including", add "302a-302b" and add "400a-400b, 410-a" before "410b". Effective I 84-85.

GERONTOLOGY

576. Add "Aspects of Aging (2) II 1984-85 (Identical with Sp.H. 576)."

HEALTH-RELATED PROFESSIONS

549. Add "Interdisciplinary Approaches to Health Care of the Aged (3) S (Identical with Ph.Pr. 549, F.C.M. 549, N.F.S. 549)."

HIGHER EDUCATION

497a. NEW COURSE: "Fiscal Stress in Higher Education (1) {Rpt./2} I GC."

602. Change home department to Higher Education. Retain crosslisting with Counseling and Guidance. Effective II 82-83.
607. Change home department to Higher Education. Retain crosslisting with Counseling and Guidance. Effective II 82-83.


617. Change home department to Higher Education. Retain crosslisting with Counseling and Guidance. Effective II 82-83.

661. Course being transferred to Higher Education. Crosslist course with Counseling and Guidance. Effective II 82-83.

696e. NEW COURSE: "Topics in Higher Education (1) {Rpt./3} I II."

696f. NEW COURSE: "Topics in Community College Education (1) {Rpt./3} I II."

696g. NEW COURSE: "Topics in Higher Education Administration (1) {Rpt./3} I II.

HISTORY

227. NEW COURSE: "Nuclear Age (3) II 1983-84 The impact of nuclear science and technology on 20th-century society. An examination of the nuclear arms race, the Cold War, and the exploration of outer space. (Identical with Pol. 227)."

315. NEW COURSE: "United States Military History (3) I Survey of American wars from colonial times to the present; military institutions, doctrine, application of the principles of war, campaign strategies and tactics, technology, and leadership."

495d. Add: "Modern Chinese Frontier Areas (3) GC I 1983-84 (Identical with O.R.S. 495d)."

595f. NEW COURSE: "Advanced Studies in Ancient History (3) II. Consult department before enrolling. (Identical with Clas. 595f)."

HOME ECONOMICS

Child Development and Family Relations

347R-347L. Course being revised. Change course number to "347". New listing will read: "Child Development in Group Settings (3-6) {Rpt./1} I II Laboratory experience with young children. Supervised experience with 3-5 year-old children in a group setting; interactions, observations, discussions. P, 223. Effective I 83-84.

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387. NEW COURSE: "Advanced Human Development and Relations (3) II Behavioral science approaches to interpersonal competence within various societal contexts. P, 117."


557. DELETE: "Administration and Supervision of Preschool Programs (3)."

Home Economics Education

497p. Change course number to "597g." Effective I 82-83.

597g. Change course title to "Microcomputers-Extension". Effective I 82-83.

Hydrology and Water Resources

Hydrology

525. Add "Water Quality Modeling (3) I (Identical with C.E. 525)."

Water Resources Administration

568. NEW COURSE: "Ground-Water Management (3) II Management techniques for regional aquifer systems. Quantitative methods for both quantity and quality aspects of ground-water management. P, 544b. (Identical with C.E. 560)."

696k. DELETE: "Coupled Physical-Social Resource Models (1 to 2)."

696m. NEW COURSE: "Water Storage systems (1-3) (Rpt./1) II P, consult department before enrolling."

Journalism

301. Change course number from "401". Effective II, 83-84.

302. Change course number from "402". Effective II, 83-84.

320. Change course number from "420". Effective II 83-84.

401. Change course number to "301". Delete "GC". Effective II 83-84.

402. Change course number to "302". Delete "GC". Effective II 83-84.

416. NEW COURSE: "The Weekly Newspaper (3) GC I II Community and suburban weeklies, including problems of news coverage, production, advertising and circulation. Integration of electronic text systems. Field trips."
420. Change course number to "320". Delete "GC". Effective II, 83-84.

423. DELETE: "Modern Production Methods (3)."

481. Change to "Studio Courses" section. Effective I 83-84.

509. NEW COURSE: "Media in the Twentieth Century (3) I The social, cultural, and economic role of a free press in American society. Interaction of press and government at judicial, executive, and legislative levels."

LAW

615. DELETE: "Agency and Partnership (3)."

627. DELETE: "International Law (3)."

629. DELETE: "Legal History (3)."

663. DELETE: "Bankruptcy (2)."

666. NEW COURSE: "Lawyering Skills Outside the Courtroom (2) II. P or CR 696cc or substantial clerking experience."

696g. Change units to "(3)". Effective II 83-84.

696l. DELETE: "Resources Law (3)."

696q. DELETE: "Advanced Criminal Procedure (3)."

696ff. DELETE: "Trade Secrets (3)."

LIBRARY SCIENCE

488. Add "Microcomputer Application in Education (3) GC I II S (Identical with Ed.F.A. 488)."

585. DELETE: "Current Trends in Adolescent Literature (3)."

695f. NEW COURSE: "Issues in Library and Information Science (1 to 3) (Rpt./4 units)."

LINGUISTICS

222. NEW COURSE: "The Structures and Sources of American English Words (3) I II Linguistic principles governing the internal structure of English words and the ways in which new words are created with focus on spelling, sounds and morphemes."
514. NEW COURSE: "Advanced Phonology (3) I Phonological processes of natural language and their theoretical treatment including standard generative phonology and multilinear extensions of it, such as autosegmental phonology and metrical phonology. P, 413."

MANAGEMENT

420. Add crosslisting "(Identical with Acct. 420)". Effective II 83-84.

475. NEW COURSE: "Productivity Improvement (3) GC II Productivity measurement; monitoring with statistical quality control techniques; improvement through use of small group processes. P, 373."

500a-500b. Change the effective date to II 1983.84.

MANAGEMENT INFORMATION SYSTEMS

301. Insert "*" after the course number. Effective I 83-84.

307. NEW COURSE: "Computer Organization and Data Communications (3) I II Computer organization, operating systems principles, systems software, data communications, networks, protocols and distributed processing. P, 301."


421. Add "QC". Effective I 83-84.

422. Add "QC Effective I, 83-84
Insert "*" after the course number. Effective I 83-84.


451. Add "QC". Effective I 83-84.

471. Delete "field trips". Change prerequisites to Mgmt. 305, Fin. 311, Mktg. 361". Effective II 83-84.

696g. NEW COURSE: "Advanced Topics in Data Management (3) II P, 53lb."

696h. NEW COURSE: "Master's Report Projects (3) I II S Open to majors only."

MARKETING

410. Delete "QC". Effective I 83-84.
MATHEMATICS

101a-101b. Change units to "(3-3)". Effective II 83-84.

253. DELETE: "Linear Algebra and Differential Equations (4)."

423. In description, change "and Riemann integration" to "sequences and series". Effective I 84-85.

425. Course being revised. New listing will read: "Advanced Calculus I (3) GC II Continuity and Riemann integration in one or two dimensions, improper integrals, uniform convergence, differentiation in n-space, inverse function theorem. P, 423." Effective I 84-85.


487. Add "Microcomputers in Education (3) GC I II S (Identical with EDFA 487)". Effective II 83-84.

MEDICINE

Interdepartmental


596e/896e. Transfer course to Family and Community Medicine. Effective S 1983.

596d/896d. DELETE: "Host Defense to Disease (2)."

596g/896g. DELETE: "Professionalization of Issues Concerning Illness and Death (2)."

596m/896m. DELETE: "Principles of Medical Education (2)."


596hh/896hh. DELETE: "Pathogenesis of Rheumatic Diseases (2)."


896mm. DELETE: "Renal Physiology in Clinical Medicine (1-3)."

Family and Community Medicine

549. Add "Interdisciplinary Approaches to Health Care of the Aged (3) S (Identical with Ph.Pr. 549, NFS 549, HRP 549)."

596a/896a. NEW COURSE: "International Health (3) S Open to health majors only."

596b/896b. Course being transferred from Interdepartmental. Effective S 1983.

596e/896e. Course being transferred from Interdepartmental. Effective S 1983.

596u/896u. Course being transferred from Interdepartmental. Effective S 1983.

596cc/896cc. Course being transferred from Interdepartmental. Effective S 1983.

596ss/896ss. Course being transferred from Interdepartmental. Effective S 1983.

596yy/896yy. Course being transferred from Interdepartmental. Effective S 1983.

815c. NEW COURSE: "Alcoholism: A Community Health Problem (3) {Rpt./1} I II.

815g. NEW COURSE: "Clinical Geriatrics (3 to 12) {Rpt./12 units} Consult department before enrolling."


891b. NEW COURSE: "Family Medicine (3-12) P, 4th-year medical student. Consult department before enrolling."

896c. Course being transferred from Interdepartmental. Effective S 1983.
896f. Course being transferred from Interdepartmental. Effective S 1983.

**Internal Medicine**

810d. NEW COURSE: "Ambulatory Geriatrics (6 to 12) P, 803."

815r. NEW COURSE: "Neurological and Neuromuscular Disorders (3 to 6) P, 803."

815s. NEW COURSE: "Arthritis and Clinical Immunology (3 to 18) P, 80:

**Ophthalmology**


**Pediatrics**


815h. NEW COURSE: "Poison Center (4 to 6) P, 803."

**Surgery**

815r. NEW COURSE: "Clinical Experience in Rehabilitation Medicine (1 to 4)."

815g. DELETE: "Rehabilitation Services (1 to 6)."

**MEXICAN-AMERICAN STUDIES**

485. NEW COURSE: "Mexican/Chicana Women's History (3) GC I Historical survey and sociological analysis of past and present experiences of Mexicanas and Chicanas in the United States (Identical with W.S. 485)."

**MICROBIOLOGY**


577. The following course was inadvertently omitted from the 1983-85 catalog: "Advanced Microbial Physiology (2) I 1983-84 Studies of metabolic pathways of selected microorganisms with an emphasis on industrial applications. P, 417R."
MILITARY AEROSPACE STUDIES

100a-100b. Change course number to "201a" and "201b". Last sentence to read: "201a is not prerequisite to 201b." Effective I 84-85.

101a-101b. Change course number from "200a" and "200b". Last sentence to read: "101a is not prerequisite to 101b". Effective I 84-85.

200a-200b. Change course number to "101a" and "101b". Last sentence to read: "101a is not prerequisite to 101b". Effective I 84-85.

201a-201b. Change course number from "100a" and "100b". Last sentence to read: "201a is not prerequisite to 201b". Effective I 84-85.

MOLECULAR AND MEDICAL MICROBIOLOGY

595a. Change semester offering to "I". Effective I 82-83.

MUSIC

645a-645b. NEW COURSE: "Techniques for the Vocal and Instrumental Coach (3-3) Techniques needed by accompanists to coach singers and chamber music ensembles. 2R, 3L. P, CR 685p or 785p."

672. NEW COURSE: "Teaching Music in Higher Education (3) II Contemporary practices in planning, organizing, and evaluating learning experiences in music for college and university students. Open to music majors only."

685VC. NEW COURSE: "Vocal coaching (1) (Rpt./2) I II Vocal literature with emphasis on diction, style, and performance practices. P, CR 685v or 785v."

Performance Studies

685Pa. NEW COURSE: "Accompanying (1 to 4)."

785g. NEW COURSE: "Guitar (1 to 4)."

NUCLEAR AND ENERGY ENGINEERING

120. NEW COURSE: "Technology and Society—An Historical Perspective (3) I Significant developments in human history emphasizing the role of technology as an agent for social change; particular attention to the use of energy resources."
221R/2211. Course being revised. Change course number to "221". New course listing will read: "Radiation Detection and Isotopes Laboratory (3) II Introduction to the principles and practices of radiation measurement, experimental techniques and data reduction methods. P, 231." Effective II 83-84.


435. Add to prerequisite "CR Met. 331R". Effective II 83-84.

465. Add {Rpt.1/6 units}. Effective II 82-83.

NURSING

342. NEW COURSE: "Emergency Care of the School Age Child (2) S GRD Emergency care for school age children and explanation of the nurse's role. P, R.N."

354. Change units to "(3)". Change recitation hours to "2R". Effective II 83-84.

373. Course being revised. New listing will read:

373a-373b. "Maternal-Child Nursing (6-5) 373a. Supervised clinical practice and study of nursing concepts and theories applied to health care of women and families during the childbearing years. Open to majors only. P, 363, PCol 372b; CR 372b, 375, 379. 373b. Supervised clinical practice and study of nursing concepts and theories regarding health care needs of children and adolescents and the impact these needs have on the family. Open to majors only. P, 363, PCol 372b; CR 373a, 375, 379. Both 373a and 373b are offered each semester." Effective II 83-84.

387. Course being revised. New listing will read:

387a-387b. The Professional Nurse in the Health Care System (8-8) 387a. Supervised clinical practice with the adult patient with medical-surgical problems leading to multiple systems effects. Open to majors only. P, 381, 382, 388, 389; CR 387b. 387b. A clinical course to enable students to function on the health care system and to apply management and leadership theories in professional nursing practice. Open to majors only. P, 381, 382, 388, 389; CR 387a. Both 387a and 387b are offered each semester." Effective I 84-85.

681. Change units to "(3)". Effective I 83-84.
NEW COURSE: "Primary Care Nursing I (6) S GRD Knowledge and skills in health assessment, health promotion, and anticipatory guidance throughout lifespan, assessment and management of common, acute, and chronic pediatric and adult health problems. 2R, 12L. P, admission to N.S. program."

NEW COURSE: "Primary Care Nursing II (6) S GRD Knowledge and skills in health assessment, health promotion, and anticipatory guidance throughout lifespan; assessment and management of common, acute, and chronic pediatric and adult health problems. 2R, 12L. P, admission to N.S. program."

NEW COURSE: "Family Health Care Management (2) I GRD Knowledge and skills in family assessment and health care management relevant to primary care; emphasis on application of family theory. 1R, 3L. Admission to N.S. program."

NEW COURSE: "Instrument Construction (3) S 1983 Deductive process for constructing/testing instruments to measure nursing care interventions/patient outcomes. Includes deductive instrument strategies; experience developing a pilot measure. 2R, 3L. Open to majors only. P, 705, 710, grad. level statistics."

NUTRITION AND FOOD SCIENCE

258. Change units to "(1)"; delete "2R". Change prerequisite to "P, 251". Effective I 83-84.

350. Change offering to "I". Effective I 83-84.

449. Course being revised. New listing will read: "Nutritional Care Management (2) GC I Management methods applied to the administration of nutritional care in health care delivery systems for individuals in various life situations. 1R, 3L, CR 408, 442." Effective I 83-84.

451. Change course number to "358". Effective I 83-84.

455. Change course title to: "Food Product Development". Effective I 83-84.

458. Change course title to: "Food Service Organization and Management". Effective I 83-84.

460. Add "General Biochemistry (5) GC I (Identical with Bioc 460). Effective I 83-84.

549. Add "Interdisciplinary Approaches to Health Care of the Aged (3) S (Identical with Ph.Pr. 549, F.C.M. 549, H.R.P. 549)."

596cc. Change crosslisting to "(Identical with FCM 596cc)". Effective S 1983.
665. Add crosslisting "(Identical with BI OC 665)." Effective I 83-84

GENERAL ORIENTAL STUDIES

495c. NEW COURSE: "South Asia (3) {Rpt. 4} GC."

496a. NEW COURSE: "Special Topics in Asian Studies (3) {Rpt./4} GC."

China

465. DELETE: "Traditional Chinese Political Institutions (3) GC."

495d. NEW COURSE: "Modern Chinese Frontier Areas (3) GC I 1983-84
Alternate years (Identical with Hist. 465d)."

Japan

412a-412b. Insert "{Rpt.}". Effective I 83-84.

Judaic Studies

455. NEW COURSE: "Introduction to Rabbinic Literature (3) GC II
Reading in translation; interpretation of Hellenistic, Jewish, Rabbinic, and related literatures including legal, ethical, moral, and social interpretation of Scripture and oral traditions (Identical with Reli. 455)."

495g. NEW COURSE: Judaic Studies (3) {Rpt./4} GC Consult department before enrolling."

595g. NEW COURSE: "Judaic Studies (3) {Rpt./4} Consult department before enrolling."

Middle East

442 NEW COURSE: "Transformation of Agrarian Societies in the Middle East (3) GC II
Dynamics, processes, and implications of rural change in the Middle East; focus on changes in peasant communities, nomadic pastoralists, ural-urban relations, and planned change. (Identical with A.Ec. 442, Pol. 442, Soc. 442)."

495h NEW COURSE: "Middle East (3) {Rpt./4} GC Consult department before enrolling."

595f NEW COURSE: "Ancient Near East (3) {Rpt./4} Consult department before enrolling."

PHARMACEUTICAL SCIENCES

509. Change course number to "409". Add "GC". Effective I 84-85.
NEW COURSE: "Advanced Physical Pharmacy (3) I 1983-84 Applications of physical chemistry to pharmacy. P, physical pharmacy or physical chemistry course."

PHARMACOLOGY AND TOXICOLOGY

372a-372b. Course being revised. Change course number to "372". New listing will read: "Applied Pharmacology (3) I II Pharmacodynamics, pharmacology, and adverse effects of commonly used drugs, with emphasis on clinical applications. Not available for elective credit in the College of Pharmacy. P, Gbio. 159b." Effective I 84-85.

633. Change offering to "II". Effective II 83-84.

Pharmacology

372a. Delete course. Effective II 83-84.


Toxicology

471a-471b. Change units to "(4-4)". Effective I 83-84.

PHARMACY PRACTICE

353. DELETE: "Introduction to Pharmacy Practice (1) I."

355. Change offering to "II" Effective II 83-84.

396a. DELETE: "Proseminar-Clinical (1)."

440. Change course title to "Perspectives in Health Care Services". In the description, change "pharmacy's roles" to "medication usage". Add crosslisting "(Identical with Rhab. 440)". Effective I 84-85.

455. DELETE: "Introduction to Clinical Pharmacy (4)."


494a. DELETE: "Practicum: Clerkship (1 to 15)."

494b. DELETE: "Practicum: Externship (1 to 15)."
589/889. NEW COURSE: "Clinical Pharmacotherapy of Mental Disorders (3) II A Multidisciplinary approach to clinical psychopharmacology, therapeutics, and diagnosis of mental disorders for health professionals. (Identical with Coun. 589)."

549. NEW COURSE: "Interdisciplinary Approaches to Health Care of the Aged (3) S A team approach to problems faced by the chronically-ill elderly 3R, 4.5L P, consult department before enrolling (Identical with F.C.M. 549, H.R.P. 549, N.F.S. 549)."

PHILOSOPHY

260. Add crosslisting "(Identical with CLAS 260)". Effective II 83-84.

460. Insert "the PreSocratics," preceding "Plato". Add crosslisting with Classics. Effective I 83-84.

596u. NEW COURSE: "Philosophy and Cognitive Science (3) {Rpt./2} I II." 

PHYSICAL EDUCATION

103. Course being revised. New listing will read: "103a. Beginning Aerobic Dance (1) I II S." Effective II 83-84.

103c. NEW COURSE: "Intermediate Aerobic Dance II) {Rpt./1} I II S. P, 103a."

145. Change title to "Jogging". Effective II 83-84.

148a. NEW COURSE: "Beginning Karate (1) I II S {Rpt./1}."

148c. NEW COURSE: "Intermediate Karate (1) I II S {Rpt./1}."

155. NEW COURSE: "Orienteering (1) I II S {Rpt./}."

187. NEW COURSE: "Yoga for Health and Fitness I II S {Rpt./}."

276. Change units to "(2)". Effective II 83-84.

279. Change units to "(3)". Effective II 83-84.

383. NEW COURSE: "Governance and Fiscal Aspects of Amateur Athletics (3) I II Examination of the structure, function, and fiscal aspects of organizations which govern amateur athletics in the U.S.A."

393b. NEW COURSE: "Fitness Programs (2-3) {Rpt./1} I II P, 373, 374, 394d."
528. **NEW COURSE:** "Stress Management for Performance and Health (3) I
Study of practical experiences in stress management strategies for optimizing performance and coping with selected stress-related health disorders."

583. **DELETE:** "Heritage of American Sport and Physical Education (3)."

588. **NEW COURSE:** "Legal Aspects of Sports Administration (3) II
Development of administrative and coaching techniques from the legal perspective. Analysis of personnel procedures, purchase of equipment, athletic associations, certification, transportation, medical procedures, officiating, and the handicapped athlete as influenced by litigation. P, 586."

594a. **NEW COURSE:** "Developmental Movement in Childhood (2) I II P, 279."

594b. **NEW COURSE:** "Exercise Technician/Exercise Prescription (2) I II P, 374, 394d."

Transfer the following courses to the Committee on Dance. Effective II 83-84.

112. Ballet
   a. Beginning Ballet
   c. Intermediate Ballet

121. Character Ballet

143. Improvisation
   a. Beginning Improvisation
   c. Intermediate Improvisation

152. Modern Dance
   a. Beginning Modern Dance
   c. Intermediate Modern Dance

175. Theatre Dance

209. Percussion for Dance Students

240a-240b. Ballet Technique I

241a-241b. Modern Dance Technique I

244a-244b-244c-244d. Jazz Dance Technique

245a-245b. Basic Choreography

246. Rhythmic Analysis of Dance Forms

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247a-247b. Production in Dance
259a-259b. History of Dance
339. Ballet Pointe Preparation
340a-340b. Ballet Technique II
341a-341b. Modern Dance Technique II
343a-343b-343c-343d. Dance Repertory
346. Theory and Philosophy of Dance
394c. Practicum: Dance Project
394f. Practicum: Production Project
440a-440b. Ballet Technique III
441a-441b. Modern Dance Technique III
445. Advanced Choreography
496a. Proseminar: Dance Related Art Forms.

PHYSICS

100a-100b. Delete course.

230. Change course number to "330". Effective I 83-84.

330. Change course number to "230". Effective I 83-84.

431. NEW COURSE: "Energy and Modern Physics (3) GC II Topics fundamental to energy sources: physical, electrical, thermal, chemical, biological, optical properties of nuclei, atoms, molecules, particles and solids. P, 116 and 121, or 103a-103b; Math. 223."


PHYSIOLOGY

480. Add "CR 481" after "Phys. 102b.". Effective I, 83-84.

481. Insert "CR 480" after "Phys. 102b." Effective I, 83-84.

696b. Change to "{Rpt./5}". Effective I 83-84.

605. Delete "Phase" and add as the last sentence: "Consult department before enrolling." Effective I 83-84.
805. Change offering to "II". Effective II 83-84.

PLANT SCIENCES

212. Course being revised. New listing will read: "Principles of the Seed Industry (3) I Seed industry management principles, federal and state seed laws, seed certification, varietal release, and identification of crop and weed seeds. 2R, 3L. P, 100." Effective I 84-85.

408. Change prerequisite to "P, 110." Effective II 83-84.

478. Add "Origins and Development of Cultivated Plants (3) GC I (Identical with G.Bio. 478)." Effective I 83-84.

627. Change description to read: "Strand and tetrad analysis; chromosome structure and organization; recombination at the molecular level and gene conversion; mutations classifications and origins; genetic complementation and its relation to a genetic unit and its function." Effective I 84-85.

POLITICAL SCIENCE

227. Add "Nuclear Age (3) II 1983-84 (Identical with Hist. 227)."

333. Change course number from "433". Effective I 83-84.

393f. NEW COURSE: "Internship: Legal (1 to 6) [Rpt./6 units]."

PSYCHOLOGY

100a-100b. DELETE: "Elementary Psychology (3)."

101. NEW COURSE: "Introduction to Psychology (3) I II S Survey of general psychology including history and systems, physiology, sensation and perception, learning, motivation, cognition, development, personality, social, and psychopathology.

300. Change course description to "Introduction to major theories and research findings of social psychology; to provide an understanding of the roles of cognitive and motivational processes in social behavior." Effective II 83-84.

411aL-411bL. Change units to "(2-2)". Effective II 83-84.

523. Change course description to: "Extensive review of theoretical foundations and research developments in social psychology."
523. Change course description to: "Extensive review of theoretical foundations and research developments in social psychology." Effective II 83-84.

620. Course description should read: "Advanced survey of symptoms, causes, and treatments of the major psychological disorders; current research and theory in psychopathology. Open to majors only." Effective I 83-84.

PUBLIC POLICY, PLANNING AND ADMINISTRATION

334. DELETE: "Courts Management (3)."

414. Insert "*" following the course number. Effective I 83-84.

435. NEW COURSE: "Crime and Public Policy (3) I II Role of government in the prevention and control of crime."

474. Add "Geology and the Urban Environment (3) GC I II (Identical with Geos. 474)."

READING

488. Add "Microcomputer Application in Education (3) GC I II S (Identical with Ed.F.A. 488)

510. NEW COURSE: "Microcomputers in Reading/Language Arts (3) I II S Procedures for programming in author languages; criteria for evaluating software for reading programs; use of microcomputers for reading instruction. P, Ed.F.A. 487."

REHABILITATION

P. 420, under headnotes, at the end of the second paragraph, add "Requirements for the 18-unit nonteaching minor include 300, 320a-320b, and 325 and six units from the following: 405, 410, 419, 455, 480, 485." Effective II 83-84.

419. Add "Behavior Principles for the Handicapped (3) GC I II (Identical with Spec. 419)." Effective I 83-84.

440. Add "Perspectives in Health Care Services" and add "(Identical with Rhab. 440)." Effective I 84-85.

470. NEW COURSE: "Disability and Relationships (3) GC S Effects of disability on interpersonal relationships and ways to assist the disabled person with interpersonal difficulties."

485. NEW COURSE: "Rehabilitating the Public Offender (3) GC I II Components in service delivery to the public"
offender, how the offender enters the criminal justice system, and treatment and rehabilitation services available.

488. Add "Microcomputer Application in Education (3) GC I II S (Identical with Ed.P.A. 488)."

796a. NEW COURSE: "Assessment in Rehabilitation Psychology I (3) II P, 500, 620; Ed.P. 672b."

796b. NEW COURSE: "Current Issues in Rehabilitation Psychology (3) Open to majors only. P, 500, 620, Ed.P. 672."

RELIGIOUS STUDIES

455. Add "Introduction to Rabbinic Literature (3) II (Identical with Or.S. 455)."

RENEWABLE NATURAL RESOURCES

Landscape Resources

450. NEW COURSE: "Landform, Grading, and Drainage (3) GC I Introduction to topography, contour, grading, and drainage. 2R, 3L. Field trips. P, 111, 250."

Range Management

305. Add offering "I". Effective I 84-85.

Renewable Natural Resources

696a. NEW COURSE: "Renewable Natural Resources (1) II 1983-84."

Wildlife and Fisheries Science

340. DELETE: "Wildlife Law Enforcement and Policy (3) II."

RUSSIAN AND SLAVIC LANGUAGES

105a-105b. DELETE: "Training in Reading for Graduates (no credit)."

SECONDARY EDUCATION


409. Add "CR A.Ed. 385, S.Ed. 338a." Effective II 83-84.

414. Change offering to "II". Effective I 83-84.
442. NEW COURSE: "Implementing Systems Instruction (3) GC I II S Management and evaluation of a systems instructional environment; concentration on management styles and internal and external evaluation."

443. NEW COURSE: "Advanced Instructional Methods (3) GC I II S Theory and application of instructional methodologies; development and implementation of units of instruction using the methodologies studied."

444. NEW COURSE: "Classroom Management for Training (3) GC I II S Strategies and objectives used in managing the learning environment, controlling student problems, and implementing due process procedures."

488. Add "Microcomputer Application in Education (3) GC I II S (Identical with Ed.F.A. 488)".

620. NEW COURSE: "Classroom Communication and Interaction (3) II The teacher's role in promoting effective communication and interaction in the classroom situation."

697s. NEW COURSE: "Creating Classroom Alternatives (3) I II (Identical with Elem. 697s)."

SOCIOLOGY

442. Add "Transformation of Agrarian Societies in the Middle East (3) GC II (Identical with Or.S. 442, A.Ec. 442, Pol. 442)."

505. NEW COURSE: "World System Theory and Research (3) I II Theory and research on the modern world-system."

SOILS, WATER AND ENGINEERING

313. DELETE: "Farm Structures and Equipment (2)."

350. NEW COURSE: "Water in Agriculture (3) I GRD Importance of water in agriculture, agricultural water sources, uses, management and conservation; social, political, economic, and health issues."

SPANISH AND PORTUGUESE

Spanish

495g. NEW COURSE: "Hispanic Literature (3) [Rpt./1] GC S Offered in Guadalajara only. P, 375."

Portuguese

305. NEW COURSE: "Composition and Conversation (3) [Rpt./1] I II S"
Fifth semester Portuguese; development of writing and speaking skills. P, 201b or 202b.

378. NEW COURSE: "Intermediate Grammar (3) I II S Basic Portuguese grammatical concepts. P, 201b or 202b."

397r. NEW COURSE: "Portuguese Language Skills and Culture (4) S Offered only in Rio de Janeiro. P, four semesters of Portuguese."

SPECIAL EDUCATION

419. Change course title to "Behavior Principles for the Handicapped." Change course description to: "Use of behavior principles to modify the behavior of handicapped persons." Add crosslisting with Rhab. Effective I 83-84.

471. NEW COURSE: "The Severely Handicapped (3) GC I Education of the severely handicapped; emphasis on children and adolescents with severe mental, physical, and/or behavioral disabilities. P, 403."

488. Add "Microcomputer Application in Education (3) GC I II S (Identical with Ed.F.A. 488)."

597g NEW COURSE: "Creativity and Giftedness (3) {Rpt./9 units} II."

5951. NEW COURSE: "Issues and Research in Educating the Gifted (3) {Rpt./9 units} II. Consult department before enrolling."

SPEECH AND HEARING SCIENCES

108a-108b. DELETE: "Effective Listening (2)."

461L. Add "GC". Effective I 83-84.

518. NEW COURSE: "Counseling Techniques in Communication Disorders (3) II S Basic counseling techniques pertinent to clinical practice with the communication handicapped and their families."

571. NEW COURSE: "Cleft Palate, Other Craniofacial Disorders, and Communication (2) I Communication disorders associated with cleft palate and other craniofacial defects. Speech assessment, evaluation and treatment; survey of dental and surgical services."

576. NEW COURSE: "Communicative Aspects of Aging (2) II Hearing, speech, voice, and language changes in the elderly caused by aging and disease. Emphasis on management of these problems. (Identical with Gero. 576)."

596a. Add {Rpt./2 or 9 units}. Effective I 83-84.
596b. Add {Rpt./2 or 9 units}. Effective I 83-84.
596c. Add {Rpt./2 or 9 units}. Effective I 83-84.
596d. Add {Rpt./2 or 9 units}. Effective I 83-84.
596e. Add {Rpt./2 or 9 units}. Effective I 83-84.

SPEECH COMMUNICATION

112. Change title to "Introduction to Organizational Communication". Effective I 83-84.

312. Change title to "Conflict in Organizational Communication". Course description will read: "A practical and theoretical study of conflict and communication interaction in the organizational context." Change prerequisites to P, 112 or Mgmt. 305." Effective I 83-84.

412. Course being revised. New listing will read:

412a-412b. Organizational Communication (3-3) GC Analysis of interpersonal and group communication practices affecting goal achievement in business, governmental and professional organizations. 412a. Theory; 412b. Process. P, 300 or Mgmt. 305. Effective I 83-84.

436. Course being revised. New listing will read: "Shakespeare through Performance (3) GC I Understanding Shakespeare's plays through performance. Performance-oriented analysis compels a thorough comprehension of the ideas, emotions, attitudes and intent of the plays being studied. P, 237 or 238." Effective II 83-84.

447. Change offering to "I 1984-85". Effective II 82-83.

SYSTEMS AND INDUSTRIAL ENGINEERING

408. Add "Reliability Engineering (3) GC I (Identical with AME 408)".

508. Add "Advanced Reliability Engineering (3) II (Identical with AME 508)". Effective I 83-84.

518. Add "Reliability Testing (3) II (Identical with AME 518)". Effective I 83-84.

WOMEN'S STUDIES

485. Add "Mexicana/Chicana Women's History (3) GC I (Identical with M.A.S. 485)."