SUPPLEMENT
TO THE
1989-91 GENERAL CATALOG

University of Arizona
Curriculum Office
Administration 412
Tucson, Arizona 85721
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. Advisors, 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 the 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 and remain currently informed about all regulations, and to be responsible for completing requirements. Courses, programs, and requirements described in the catalog and supplement may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the University of Arizona and the Arizona Board of Regents. The catalog and supplement do 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.

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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 of Arizona should be addressed to:

   Director of Admissions
   The University of Arizona
   Tucson, Arizona 85721
   (602) 621-3237

STATEMENT OF MAILING PRIVILEGE
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I. Administrative changes, new programs, new academic units, name changes, and program deletions and transfers.

II. New courses, course deletions, course and catalog changes.

NOTE: This supplement is the record of all curricular changes approved since the publication of the 1989-91 General Catalog. All information contained herein has previously appeared in the Curriculum Bulletin, Vol. 13, Nos. 1 - 10. Changes for the same course with the same effective date have been combined into one entry. In some cases, where two or more changes have occurred in a given course, only the final version will appear in this supplement. If the sequence of one or more related changes is critical, as in the case of a deletion and subsequent course renumbering, each individual change will be listed. Please report any errors noted in this publication to the University Curriculum Office as soon as possible, as the supplement will be a primary source for revising the next catalog.

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1-3913
I. Administrative Changes, New Programs, New Academic Units, Name Changes, and Program Deletions and Transfers

**Final Action by the Provost, April 7, 1989**

Approved the request of the College of Nursing to increase from 2.5 to 2.75 the grade-point average which the college requires for admission to its nursing program.

**Final Action by the Board of Regents, January 7, 1989**

Approved the establishment of the University of Arizona Arthritis Center.

**Final Action by the Board of Regents, March 31, 1989**

Approved the deletion of the M.S. and Ph.D. degree program majors in animal physiology.

Authorized continuation of the Arizona Traffic and Transportation Institute following a sunset review, with a new sunset review date set at Spring 1993.

Authorized the establishment of a Center for the Study of Complex Systems, with a sunset review date of Spring 1993.

Approved the deletion of 128 courses totalling 363 units.

**Final Action by the Board of Regents, May 19, 1989**

Approved a change in the name of the general studies major for the Bachelor of Arts degree to interdisciplinary studies.

**Final Action by the Board of Regents, July 14, 1989**

Approved the deletion of the early childhood education major for the Bachelor of Science in Family and Consumer Resources degree.

Approved the deletion of the home economics and journalism major for the Bachelor of Science in Family and Consumer Resources.

Approved the deletion of the clothing and textiles major for the Bachelor of Science in Family and Consumer Resources.

Approved the name change of the Department of Drama to the Department of Theatre Arts, of the drama education major to the theatre arts education major, of the drama production major to the theatre production major, of the drama-musical theatre major to the musical theatre major, of the drama major for the Bachelor of Arts to the theatre arts major, of the drama major for the Master of Arts and Master of Fine Arts degrees to the theatre arts major. NOTE: Eff. I 89-90. However, the new prefix for Theatre Arts, "T.Ar.", is effective I 90-91.

**Final Action by the Board of Regents, September 8, 1989**

The following units were approved for continuation, with the next Sunset Review date scheduled for 1993-94:

- Laboratory of Organic Geochemistry
- Fluid Inclusion Laboratory
- Laboratory of Isotope Geochemistry
- Laboratory of Radioisotope Analysis
- Cosmic Ray Laboratory
The following unit was approved for discontinuation:

Gamma Ray Spectroscopy Laboratory

Final Action by the Board of Regents, October 6, 1989

Approved the name change from the Laboratory of Radioisotope Analysis to the Environmental Radioisotope Center.

Approved the name change from the Center for Utilization of Local Planetary Resources to the Space Engineering Research Center for Utilization of Local Planetary Resources.

Approved the name change from the University of Arizona Arthritis Center to the Arizona Arthritis Center.

Approved the establishment of the animal sciences major for the Doctor of Philosophy degree. Eff. II 89-90.

Final Action by the Faculty Senate November 20, 1989

Approved the establishment of an advanced standing policy in Media Arts, effective fall 1991 for all entering students.

Final Action by the Board of Regents, November 17, 1989

Approved the establishment of the Center for Pharmaceutical Economics.

Approved the establishment of the biophysics major for the Master of Science and Doctor of Philosophy degrees. NOTE: The new major and prefix "BIP" will be effective II 89-90.

Approved name changes for the Department of Agricultural Engineering, related majors and degrees, as follows: (1) the Department of Agricultural Engineering to the Department of Agricultural and Biosystems Engineering, (2) the major in agricultural engineering for the Bachelor of Science in Agricultural Engineering to the major in agricultural and biosystems engineering for the Bachelor of Science in Agricultural and Biosystems Engineering, (3) the major in irrigation for the Bachelor of Science in Agriculture to agricultural and biosystems technology, (4) the major in agricultural engineering for the Master of Science degree to agricultural and biosystems engineering, (5) the major in irrigation engineering for the Doctor of Philosophy degree to agricultural and biosystems engineering. NOTE: The name changes listed directly above are effective II 89-90; the new prefixes "ABE" and "ABT", which will replace "AEN", will be effective I 90-91.

Final Action by the Board of Regents, February 16, 1990

Approved the deletion of the major in plant protection for the Master of Science degree.

Approved the name change of the theory and composition major for the Bachelor of Music degree to composition.
II. **New Courses, Course Deletions, Course and Catalog Changes**

**ACCOUNTING (ACCT)**


422. Add "GC". Eff. II 88-89.
Delete "GC". Summer 1989.

511. Correction to *Curriculum Bulletin*, Vol. 12, No. 12: Effective date for this change should have been I 88-89.

797a. **NEW COURSE:** Workshop: "Research Design (1) [Rpt./6 units] II Open only to Ph.D. students in accounting." Eff. II 89-90.

**AEROSPACE & MECHANICAL ENGINEERING (AME)**

Correction to Page 70 of the *General Catalog*: Under the Junior Year of the Bachelor of Science in Aerospace Engineering, fall semester, change the number of units for the Hum./Soc. Sci. Elective to "4" and change the total number of units for that column to "17". Eff. I 89-90.

Page 71 of the *General Catalog*: Under first column, listing the requirements of the "Bachelor of Science in Aerospace Engineering" Senior Year, change note to read: "The 9 units of technical electives are selected in consultation with an advisor, from a list of selected upper-division offerings in engineering and other scientific technical fields." Eff. I 90-91.

132. **DELETE:** "Introduction to Engineering Design and Analysis I (3)". Eff. I 89-90.


410. Delete class structure "2R, 3L"; it is now understood to be "3R". Eff I 90-91.


536. Correction to *General Catalog*: Crosslisting with Civil Engineering should not have been deleted. Add: "(Identical with C.E. 536)". Eff. I 85-86.
[Note: Crosslisting appears correctly under Civil Engineering.]


564. **NEW COURSE:** "Introduction to Space Technologies (3) [Rpt./1] II For a description of course topics, see 464. Graduate-level requirements include additional term papers and extra questions on exams. May be convened with 464." Eff. II 89-90.

607. **NEW COURSE:** "Boundary Element Method (3) I Introduction to BEM, applications to Laplace equation, conduction-convection problems, transient problems, problems involving material nonlinearities, large strain
AGRICULTURAL & BIOSYSTEMS ENGINEERING (ABE/ABT)

Agricultural & Biosystems Engineering (ABE)

120b. Correction to Curriculum Bulletin, Vol.12, No. 11: Effective date for deletion should be Summer 1989.


425. Correction to Curriculum Bulletin, Vol. 12, No. 14: This course number was changed to 494b in CB1211. Listing should have read: "494b (Delete GC)."


Agricultural & Biosystems Technology (ABT)


AGRICULTURAL ECONOMICS (AEC)

Page 97 of the General Catalog: The paragraph beginning with "The Major:" should read: "A minimum of 22 units in upper-division agricultural economics courses including 339, 403, 404, 464 and 499. Additional required courses
include Econ. 201a-201b, 300 or 361, 330, 332, Math. 119 and 123, 3 units of accounting, and 3 units of computer applications." Eff. II 89-90.

350. NEW COURSE: "Ethical Considerations in Agricultural and Natural Resource Policies (3) I Develops the capability in students to critically identify and analyze, from an ethical/economical perspective, policy issues and decisions concerning agriculture and natural resources. P, 201a." Eff. I 90-91.


442. Change crosslisting to read "(Identical with N.E.S. 442)". Eff. I 90-91.


467. Change crosslisting to read "(Identical with N.E.S. 467)". Eff. I 90-91.

477. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "475/575". NOTE: Add crosslisting with ECON. 475/575.


AGRICULTURAL EDUCATION (AED)

100a-100b. After units, add: "100a I; 100b II 1990-91". At the end of description for 101a, add: "Offered annually." At the end of description for 101b, add: "Offered in alternate years." Eff. II 89-90.


485. Correction to page 99 of the General Catalog 1989-91: Course was inadvertently removed from catalog copy during production. Restore as follows: "Methods in Teaching Agricultural Mechanics (2) II Problems and procedures in teaching mechanics and operative skills; conducting demonstrations; providing space and teaching facilities. 1R, 3L. P, 338a and 409 or CR. Cox" Eff. I 89-90.

AGRICULTURAL ENGINEERING (AEN) See AGRICULTURAL & BIOSYSTEMS ENGINEERING

AGRICULTURE (AGRI)


AMERICAN INDIAN STUDIES (AINS)

270. Add: "Colonization and Native People (3) I II (Identical with Pol. 270)". Eff. II 89-90.


ANATOMY (ANAT)


471. NEW COURSE: "Human Embryology (3) II Normal and abnormal development of the human with functional aspects stressed. Course will include maturation of germ cells to fertilization to birth. Lecture, discussion, and demonstration format. P, M.C.B. 181, 182; Ecol. 159a-b, 160a-b or M.C.B. 456 or 457 or consult with department. (Identical with Ecol. 471 and M.C.B. 471) May be convened with 571." Eff. II 89-90.

515. Course expansion from "415" to "415/515". Course revised. New "515" listing reads: "Reproductive Biology (2) I For a description of course topics, see 415. Graduate-level requirements include an in-depth research paper and mini-reviews on selected papers in the field. P, one semester of biology. May be convened with 415." Eff. I 90-91.

571. NEW COURSE: "Human Embryology (3) II For a description of course topics, see 471. Graduate-level requirements include extensive term papers plus a class presentation on the topics. P, M.C.B. 181, 182; Ecol. 159a-b, 160a-b or M.C.B. 456 or 457 or consult with department. (Identical with Ecol. 571 and M.C.B. 571) May be convened with 471." Eff. II 89-90.


605. Change course number to "605a-605b". Course revised. Eff. I 89-90. [For new listing, see "605a-605b"].


ANIMAL SCIENCES (ANS)


430. Course expansion to "430/530". Graduate-level requirements include an in-depth research paper on a single nutritional topic of current interest. NOTE: X-list with NFS and WFSC on both levels. Eff. I 89-90.


466. Add: "Physiology Laboratory (2) II (Identical with Ecol. 466) May be convened with 566." Eff. II 89-90.

530. Same as "430" above.

549. See "430" above.

549. Add: "Diseases of Wildlife (3) II (Identical with V.Sc. 549) May be convened with 449." Eff. II 89-90.

566. Add: "Physiology Laboratory (2) II (Identical with Ecol. 566) May be convened with 466." Eff. II 89-90.

615. Change semester offering to "II". Change alternate year to "1989-90". Eff. I 89-90.

ANTHROPOLOGY (ANTH)


433. See "440" below.

432. Course expansion and number change to "472/572". Delete alternate year and change semester offering to "I". Graduate-level requirements include a research paper. Eff. I 1990-91.

438. Course expansion to "438/538". Graduate-level requirements include a research paper. Eff. I 90-91.
439. Course expansion to "439/539". Graduate-level requirements include a research paper. Eff. I 90-91.

440. Course expansion and number change to "433/533". Delete alternate year and change semester offering to "II". Graduate-level requirements include a research paper. Eff. I 90-91.

453. Course expansion to "453a-453b". Course revised. Eff. I 90-91. [For new listing, see "453a-453b".]

453a-453b. Course expansion from "453". Course revised. New listing reads:
"Mesoamerican Archaeology (3-3) I II Development of culture in Mexico and Central America from the origins of agriculture through the Spanish Conquest. 453a: Maya culture. 453b: The culture of Mexico north of the Maya area. 453a is not prerequisite to 453b. (Identical with M.A.S. 453a-453b) May be convened with 553a-553b. Writing-Emphasis Course." Eff. I 90-91.


455. See "555" below.


458. NEW COURSE: "Historical Archaeology (3) II 1989-90 Survey of the basic data and methods of research in the material culture of modern history. The New World from first European contacts to the 20th century. May be convened with 558." Eff. II 89-90.


468. See "568" below.

470a-470b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "470a-b/570a-b". NOTE: X-list 470a only with GERO on 400 level only.


472. See "437" above.

474L. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "474/574 (Delete L)".

478. NEW COURSE: "Archaeological Analysis with Geographic Information Systems (3) II 1989-90 An overview of computer concepts, techniques, and algorithms fundamental to Geographic Information Systems (GIS). Emphasis is placed on the use of GIS to examine, analyze, and model archaeological and environmental distributions within areas of study. May be convened with 578." Eff. II 89-90.

484a-484b. Change Or.S. crosslisting to read "(Identical with N.E.S. 484a-484b)". Eff. I 90-91.


489. Correction to General Catalog: Crosslisted department should be "Educ.", not "A.Ed."

490. NEW COURSE: "Women in Middle Eastern Society (3) I Middle Eastern society viewed from the perspective of women. Examines the extent to which formal definitions of women's nature and roles coincide with


495a. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "495a/595a".

496h. NEW COURSE: Seminar: "Experimental Archaeology (3) I May be convened with 596h." Eff. I 89-90.


527b. Change Or.S. crosslisting to read "(Identical with Chn. 527a)". Eff. I 90-91.


533. See "440" above.

537a-537b. Change Or.S. crosslisting to read "(Identical with N.E.S. 537a-537b)". Eff. I 90-91.

538. See "438" above.

539. See "439" above.

553. Course expansion to "553a-553b". Course revised. Eff. I 90-91. [For new listing, see "553a-553b"].

553a-553b. Course expansion from "553". Course revised. New listing reads: "Mesoamerican Archaeology (3-3) I II For a description of course topics, see 453a-453b. Graduate-level requirements include two reviews of research monographs. May be convened with 453a-453b. 553a is not prerequisite to 553b." Eff. I 90-91.


555. Course expansion to "455/555". Graduate-level requirements include a research paper. Eff. II 89-90.


558. NEW COURSE: "Historical Archaeology (3) II 1989-90 For a description of course topics, see 458. Graduate-level requirements include an additional research paper. May be convened with 458." Eff. II 89-90.


568. Course expansion to "468/568". Graduate-level requirements include an additional research paper. Eff. I 90-91.
571a-571b. NEW COURSE: "Applied Medical Anthropology in Western Contexts (3-3) 1990-91 Investigations of the illness experience; symbolic interpretations of medicines and medical procedures; doctor-patient communications and illness narratives. 571a demonstrates the applicability of major social sciences theories in the related study of health-related behavior. 571b focusses on methods of data collection and presents case studies illustrating the application of methods in the study of designated health problem areas, interviewer transference and issues of reflexivity. P, 536a." Eff. I 90-91.

572. See "437" above.

578. NEW COURSE: "Archaeological Analysis with Geographic Information Systems (3) II 1989-90 For a description of course topics, see 478. Graduate-level requirements include an additional research paper. May be convened with 478." Eff. II 89-90.

584a-584b. Change Or.S. crosslisting to read "(Identical with N.E.S. 584a-584b)". Eff. I 90-91.


589. Correction to General Catalog: Crosslisted department should be "Educ.", not "A.Ed."

590. NEW COURSE: "Women in Middle Eastern Society (3) I For a description of course topics, see 490. Graduate-level requirements include an additional paper. (Identical with Or.S. 590). May be convened with 490." Eff. I 89-90.


596b. Change Or.S. crosslisting to read "(Identical with N.E.S. 696b)". Eff. I 90-91.

596g. Add: Seminar: "Comparative Literature (3) [Rpt.] I II (Identical with Engl. 596g)". Eff. I 90-91. [Note: Smr. 2 only.] Delete listing. Eff. II 90-91.

596h. NEW COURSE: Seminar: "Experimental Archaeology (3) I May be convened with 496h." Eff. I 89-90.

596q. Change Or.S. crosslisting to read "(Identical with N.E.S. 596q)". Eff. I 90-91.

636. NEW COURSE: "Foundations of Archaeological Interpretation (3) I Surveys the history of archaeological interpretation. Central concepts in archaeological method and theory are presented. Open only to graduate archaeology majors and minors." Eff. I 89-90.

675a-675b. NEW COURSE: "Anthropology and International Health (3-3) 1991-92 675a: An intensive overview of the field of international health and anthropologists' contributions to it. Responses to biotechnology, primary health care and child survival, diseases and development; health care utilization patterns; world systems and multinational pharmaceutical industry; health care bureaucracies; interaction between traditional medicine and public health. 675b: Health transitions and the household production of health with emphasis on anthropological investigations of health within a broader development context. P, 536a." Eff. I 91-92.
ARCHITECTURE (ARCH)

404. Change number of units to "(3)". Eff. I 89-90.


414. Change number of units to "(3)". Eff. I 90-91.

424b. Correction to Curriculum Bulletin, Vol. 12, No. 13: Effective date should have been Summer 1989.

434. NEW COURSE: "History of the American House (3) I Survey of American domestic buildings from European settlement to the present including social, political, and economic forces affecting architectural change. P, 201, admission to professional phase. May be convened with 534." Eff. I 89-90.


496c. Add crosslisting: "(Identical with W.S. 496c)". Eff. II 89-90.

504. Change number of units to "(3)". Eff. I 89-90.


514. Change number of units to "(3)". Eff. I 90-91.

534. NEW COURSE: "History of the American House (3) I For a description of course topics, see 434. Graduate-level requirements include an additional research paper. P, 201, admission to professional phase. May be convened with 434." Eff. I 89-90.

596a. Change number of units to "(2-4)". Eff. II 89-90.

596c. NEW COURSE: "Women in American Architecture (3) II 1989-90 For a description of course topics, see 496c. Graduate-level requirements include an extensive research paper. May be convened with 496c." Eff. II 89-90.

ART (ART)


Page 49 of the General Catalog: Add the following phrase in column 2 under "Department of Art Requirements", at the end of the course listing: "; or by approval of the advisor, area-coordinator, department head, and dean prior to enrollment in a course not on the list." Eff. Summer 1990.

Page 110 of the General Catalog: Add the following paragraph in column 3, above the paragraph beginning "Writing-Emphasis Course":

"Art Minors: The Art Department offers two minors: studio art and art history. A minor consists of 20-24 units with a minimum of 9 units from upper-division courses.

Within the studio art minor, areas of concentration are available in painting, drawing, printmaking; photography; 3-D studio, and graphic design. Course work in each area is listed as follows:

Painting, Drawing, Printmaking: Required courses include 101, 102, 118. Courses from which the minor student may choose are 205, 305,

3-D Studio: Required courses are 101, 102, 104, and 6 credits from 271, 273, 276, 287, and 9 units of upper division course work in one area (ceramics, sculpture, fibers, metals).

Graphic Design: Required courses include 101, 102, 104, 118, 265, 266, and 3 courses from 364, 365, 366, 465, 466.

For the art history minor, required courses are 117, 118, and 15 upper-division units in art history." Eff. Summer 1990.

### At end of description, change period to comma and add: "kiln firing and ceramic history." Eff. I 991-92.

### NEW COURSE: "Intermediate Printmaking (3) [Rpt./6 units] I II Intermediate course in printmaking with emphasis on format aesthetics and personal expression. 6S. Open to majors only. P, 250, 251, 253, or 255." Eff. I 90-91.

### Change prerequisite to: "P, 265, acceptance of portfolio by portfolio committee." Eff. II 88-89.

### Add: "Writing for the Arts (3) I II (Identical with Dram. 397a, which is home)". Eff. I 89-90.

### Course expanded to "412a-412b-412c-412d" and revised. New listing reads:

"Medieval Art (3-3-3-3) The history of art and architecture in Western Europe and Byzantium between ca. 300 and ca. 1300. 412a: Early Christian and Byzantine Art. 412b: Early Medieval Art. 412c: Romanesque Art. 412d: Gothic Art. 412a is not prerequisite to 412b, etc. May be convened with 512a-512b-512c-512d." Eff. I 90-91.

### DELETE: "Relief Printmaking III (3)". Eff. I 90-91.

### DELETE: "Intaglio III (3)". Eff. I 90-91.


### DELETE: "Lithography III (3)". Eff. I 90-91.

### NEW COURSE: "Advanced Printmaking (3) [Rpt./9 units] I II Advanced course in printmaking with emphasis on formal aesthetics and personal expression. 6S. Open to majors only. P, 356." Eff. I 90-91.

### Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "466/566".

### Change prerequisite to "P, 373, and acceptance of portfolio by ceramic faculty." Eff. I 91-92.

### Change course number to "496h". Add to end of description: "May be convened with 596h." Eff. I 89-90.

### Course number change from "496a". Add to end of description: "May be convened with 596h." Eff. I 89-90.

### Course expanded to "512a-512b-512c-512d" and revised. New listing reads:

"Medieval Art (3-3-3-3) For a description of course topics, see 412a-412b-412c-412d. Graduate-level requirements include an in-depth research paper on a single aspect of current scholarly interest. P, 6 units of history or art history." Eff. I 90-91.

### Delete "[Rpt./4]". Eff. I 90-91.
578. NEW COURSE: "Graduate Two-Dimensional Fiber Techniques (3) I Advanced fiber technique course for graduate students who wish to develop further their strengths in special technical areas. Stresses two-dimensional work. 6S. P, consult department before enrolling." Eff. I 90-91.
579. NEW COURSE: "Graduate Three-Dimensional Fiber Techniques (3) II Advanced fiber technique course for graduate students who wish to develop further their strengths in special technical areas. Stresses three-dimensional work. 6S. P, consult department before enrolling." Eff. I 90-91.
596h. Add: "May be convened with 496h." Eff. I 89-90.
656. NEW COURSE: "Graduate Printmaking (3) [Rpt./18 units] III Printmaking with emphasis on aesthetics, conceptualization, technical competency, artistic literacy, and personal direction. 6S. P, consult department before enrolling." Eff. I 90-91.

ASTRONOMY (ASTR)

Pages 113-114 of the General Catalog: (1) Under the paragraph beginning "The major for the B.S." replace "30 units of upper-division courses in astronomy, physics and mathematics, including Astr. 400a-400b; other courses are to be selected in consultation with the departmental advisor." with "30 units of courses in astronomy, physics, and mathematics, including Astr. 271, 311, and 400a-400b. Courses at the 100 level do not qualify. At least 20 units must be upper-division. Courses are to be selected in consultation with the departmental advisor."

(2) Under the paragraph beginning "The major for the B.A." replace "35 units, including 120, 271, 272, 400a, Phys. 330, and 3 additional units of upper-division units of physics; 6 units of history or philosophy of science. The remaining units should be mostly upper division and must be chosen from the sciences, mathematics, engineering, history or philosophy of science." with "30 units, including 120, 271, 311, and 400a. The remaining units must be chosen from science, mathematics, engineering, or history or philosophy of science. Courses at the 100 level may be counted only if they are in the Astronomy Department." Eff. II 89-90.


ATMOSPHERIC SCIENCES (ATMO)


563. NEW COURSE: "Statistical Methods in Meteorology (3) II 1989-90 For a description of course topics, see 463. Graduate-level requirements include an additional project. P, knowledge of FORTRAN. May be convened with 463." Eff. II 89-90.

BIOCHEMISTRY (BIOC)

296a. Add Seminar: "Biological Chemistry (1) II (Identical with Chem. 296a, which is home)". Eff. II 89-90.


473. Change number of units to "(4)". Eff. II 89-90.


504. DELETE: "Intermediate Medical Biochemistry (5)". Eff. II 88-89.


573. Change number of units to "(4)". Eff. II 89-90.

574. NEW COURSE: "Advances in Mammalian Genetics (2) [Rpt./1] I 1990-91 Student participation in the presentation and discussion of current literature covering recent advances in the molecular analysis of mammalian genetic loci. P, undergraduate courses in genetics and molecular biology. (Identical with Gene. 574 and M.C.B. 574)". Eff. I 90-91.

804. Delete listing. Eff. II 89-90. [See "504" above.]

BIOPHYSICS (BIP)


578a-578b. Delete "Math. 125b" as a prerequisite for this course. Eff. I 90-91.

681. NEW COURSE: "Introduction to Biophysical Research (1-2) [Rpt./3 units] I II S Supervised research experiences in the labs of individual faculty members. 3-6L. Open only to first-year majors." Eff. I 90-91.

696a. NEW COURSE: Seminar: "Biophysics I (1-2) [Rpt./8 units] I Open to majors only." Eff. I 90-91.

696b. NEW COURSE: Seminar: "Biophysics II (1-2) [Rpt./8 units] II Open to majors only." Eff. I 90-91.

CANCER BIOLOGY (CBIO)

505. NEW COURSE: "Eukaryotic DNA Replication (3) [Rpt./1] I 1990-91 Molecular and biochemical aspects of DNA replication in mammalian cells will be described in conjunction with discussions of recent journal articles
on selected topics. Includes the regulation of S phase within the eukaryotic cell cycle; nuclear organization during DNA synthesis; DNA replication enzymes; viral, yeast and embryo models of DNA replication; the initiation of DNA replication; DNA replication origins and the reconstitution of DNA replication complexes. P, Bioc. 462b. (Identical with Bioc. 505 and Micr. 505)*. Eff. I 90-91.


CHEMICAL ENGINEERING (CHE)

420. See "430" below.

430. Course expansion and number change to "420/520". Graduate-level requirements include an in-depth research paper on a current topic. Eff. II 89-90.

520. See "430" above.


CHEMISTRY (CHEM)

296a. NEW COURSE: Seminar. "Biological Chemistry (1) II For introductory students in chemistry or the life sciences and premedical students. P, 103b and 104b, or 105b. (Identical with Bioc. 296a)*. Eff. II 89-90.

646. NEW COURSE: "Advanced Organic Chemistry (3) [Rpt.] II Advanced topics in organic chemistry, such as peptide chemistry, computer simulations, bio-organic chemistry, and other topics characterized by faculty expertise. Topics will vary each semester. P, consult department before enrolling." Eff. II 89-90.

691. Add "[Rpt./2 units]". Eff. I 89-90.

CIVIL ENGINEERING & ENGINEERING MECHANICS (CE/EM)

Civil Engineering (CE)


Course number changed from "436" and expanded to "432/532". Course revised. New listing for "432" reads: "Advanced Structural Design in Steel (3) I Advanced problems in the analysis and design of steel structures including beam-columns, plate girders, composite construction, multi-story buildings; static and dynamic vertical and lateral is; connections; computer applications. P, 336. May be convened with 536." Eff. I 90-91.

Change course number to "432" and expand to "432/532". Course revised. Eff. I 90-91. [For new listing see "432".]

Course number changed from "436" and expanded to "432/532". Course revised. Eff. I 90-91. [For new listing see "432".]

For *Curriculum Bulletin*, Vol. 12, No. 14: This course was erroneously included in CB1214; it was deleted in CB1212.

Change crosslisting to read "(Identical with A/B/E/ 455)". Eff. I 90-91.


Course number changed from "436" and expanded to "432/532". Course revised. New listing for "532" reads: "Advanced Structural Design in Steel (3) I For a description of course topics, see 432. Graduate-level requirements include a comprehensive design project. P, 336. May be convened with 432." Eff. I 90-91.

Change crosslisting to read "(Identical with A.B.E. 555)". Eff. I 90-91.

Change crosslisting to read "(Identical with A.B.E. 558)". Eff. I 90-91.


Add prerequisites to "P, 417 or E.M. 603 and C.E. 402 or consult department before enrolling." Eff. II 89-90.


Correction to *General Catalog*: Delete the sentence "May be convened with 402." [Note: E.M. 402 was deleted in page proof stage.]

Add prerequisites: "P, C.E. 417 or E.M. 603 or consult department before enrolling." Eff. II 89-90.

Add prerequisites: "P, C.E. 417 or E.M. 603 or consult department before enrolling." Eff. II 89-90.

341.  Correction to General Catalog: Title should be "Ancient Greek Monuments".

472a-472b. Add: "Ancient Philosophy (3-3) [Rpt.] (Identical with Phil. 472a-472b) May be convened with 572a-572b." Eff. II 89-90.

572a-572b. Add: "Ancient Philosophy (3-3) [Rpt.] (Identical with Phil. 572a-572b) May be convened with 472a-472b." Eff. II 89-90.

596a.  Add "[Rpt./30 units]". Eff. II 86-87.

Greek (GRK)

596a.  Add "[Rpt./30 units]". Eff. II 86-87.

Latin (LAT)

596a.  Add "[Rpt./30 units]". Eff. II 86-87.

COMMUNICATION (COMM)

425. Change course number to "418". Delete alternate year. Eff. I 89-90. [For new listing, see "418".]

COMPARATIVE LITERATURE AND LITERARY THEORY (CPLT)

596g. Add: "Comparative Literature (3) [Rpt.] I II (Identical with Engl. 596g, which is home)". Eff. I 90-91.
Delete listing. Eff. II 90-91.
Delete listing. Eff. II 89-90.

COMPUTER SCIENCE (CSC)

Change course number to "344". Eff. I 90-91.
344. Course number changed from "244". Eff. I 90-91.
373. Course number changed from "473". Course revised. New listing reads: "Automata, Grammars and Languages (3) II Finite automata, regular expressions, and their applications; context-free grammars, pushdown automata; and their applications; Turing machines and undecidability; the Chomsky hierarchy. P, 227, 244. Writing-Emphasis Course. P, satisfaction of the upper-division writing-proficiency requirement. (Identical with Math. 373)". Eff. II 89-90.
430. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "430/530".
445. NEW COURSE: "Algorithms (3) I Mathematical preliminaries; using induction to design algorithms; introduction to analysis of algorithms;
algorithms involving sequences and sets; graph algorithms; advanced topics. P, 342, 344." Eff. I 90-91.

Change prerequisites to "P, 327, 373, 430". Eff. II 89-90.


453. NEW COURSE: "Compilers and Systems Software (3) I Basic concepts of compilation and related systems software. Topics include lexical analysis, top-down parsing, semantic analysis, code generation; assemblers, loaders, linkers, debuggers. P, 327, 373, 430." Eff. I 90-91.

473. Change course number to "373". Course revised. Eff. II 89-90. [For new listing, see "373".] [Note: No longer 400/500 course. See "573" for another revised listing.]

476. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "476/576".


520. Change description to "Important programming language concepts, including types, control and data abstraction, denotational semantics, declarative and object-oriented languages, implementation issues." Change prerequisites to "P, 327, 430, 473." Eff. I 89-90.


522. Change semester offering to "II". Eff. I 89-90.
Change prerequisites to "P, 373, 452." Eff. II 89-90.


545. Change semester offering to "II". Eff. I 89-90.


550. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "450/550".

22
Change prerequisites to "P, 327, 373, 430." Eff. II 89-90.


Course revised. New listing reads: "Principles of Compilation (3) II
Detailed study of advanced compilation: translator writing systems,
attribute grammars, flow analysis, optimization, register allocation, code


Change description to read: "Functions of a database system. Data
modeling and logical database design. Query languages and query
optimization. Efficient data storage and access. Concurrency control and

Change description to read: "Theory and practice of artificial intelligence:
problem and knowledge representation, searching and heuristics, predicate
calculus, mechanical reasoning, production systems, AI languages." Change
prerequisites to "P, 327, 373, 430." Eff. II 89-90. [Note: No longer 400/500.]

696a. Change title to "Current Computing Research". Change units to "(1-2)".

DANCE (DNC)

Page 128 of General Catalog: In Dance Headnotes, insert the following paragraph after
the third paragraph, above the paragraph beginning "Honors":
"The minor: Students wishing to minor in dance must complete
the core curriculum (15 units) and track curriculum (6 units). The core
curriculum consists of the following dance courses: 143, one year of ballet
or modern dance techniques in sequence with placement in level by
audition (240a-240b or 340a-340b for ballet; 241a-241b or 341a-341b for
modern dance), 245a-245b, 259, 346, and 370. The track curriculum,
consisting of additional dance courses in areas of special interest and
demonstrated talent, is selected by students with the advice and approval of
the undergraduate advisor for dance. Areas include ballet performance
selection from and placement in 239a-239b, 297a, four units from 343a-
343b-343c-343d, 391, 439a-439b, 440a-440b, 450a-450b), modern dance
performance (selection from and placement in 297a, four units from 343a-
343b-343c-343d, 391, 441a-441b), jazz dance (placement in 244a-244b-244c-
244d, 297a, four units from 343a-343b-343c-343d, 391), composition (six
units from 343a-343b-343c-343d, 391, 394a, 394b, 445), introduction to
teaching (297a, four units from 343a-343b-343c-343d, 391, 394a, 394b, 399).
Minimum units required for the minor in dance -- 21."

291a. NEW COURSE: Preceptorship: Dance Production (1-3) [Rpt./3] I II*. Eff.
II 88-89.
NEW COURSE: "Workshop: Alignment/Floor Barre (1) [Rpt./2 units] I S". Eff. II 89-90.

Add: "Writing for the Arts (3) I II (Identical with Dram. 397a, which is home)". Eff. I 89-90.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "451a-451b/551a-551b".

Correction to Curriculum Bulletin, Vol. 13, No. 6: Course expansion to "496d/596d". Graduate-level requirements include the presentation of a half hour oral report and the completion of additional readings. Eff. II 89-90.

Correction to General Catalog. "595d" should have been "596d".

Correction to General Catalog. Change "595d" to "596d", the correct course number for "Dance Related Art Forms".

Correction to General Catalog. "595d" changed to "596d", the correct course number for "Dance Related Art Forms".

Change repeatability to "[Rpt./9 units]". Eff. I 89-90.

DRAMA (DRAM) See THEATRE ARTS

ECOLOGY & EVOLUTIONARY BIOLOGY (ECOL)

123. Change semester offering to "II". Eff. II 89-90.

In sentence beginning, "Primarily", delete "phrm.". Eff. I 89-90.

Course expansion to "434/534". Add "[Rpt.]". Graduate-level requirements include independent study of a model or data ecological system to be specified by the professor. Eff. I 89-90.

Change semester to "II". Add alternate year "1990-91". Eff. I 90-91.


Add "Writing-Emphasis Course." Eff. I 89-90.

DELETE: "Human Physiology Laboratory (1-1)". Eff. I 89-90.

DELETE: "Human Physiology (3-3)". Eff. I 89-90.

NEW COURSE: "Physiology Laboratory (2) II Laboratory techniques and investigation of physiological mechanisms. P, Ecol. 437, 468; or V.Sc. 400a-400b; or Psio. 480. (Identical with An.S. 466, M.C.B. 466, Psio. 466, Tox. 466, V.Sc. 466) May be convened with 566." Eff. II 89-90.

Course number changed from "468R". Change semester offering "II". Eff. I 89-90.

DELETE: "Comparative Physiology Laboratory (1)". Eff. I 89-90.

Change course number to "468". Change semester offering to "II". Eff. I 89-90.

Add: "Human Embryology (3) II (Identical with Anat. 471) May be convened with 571." Eff. II 89-90.

480. Change class structure to "3R, 3L". Eff. I 89-90.

484. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "484/584".

496d. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "496d/596d".

534. See "434" above.


563a-563b. Correction to Curriculum Bulletin, Vol. 13, No. 1: Listing should have been deleted. Eff. I 89-90.

564a-564b. Correction to Curriculum Bulletin, Vol. 13, No. 1: Listing should have been deleted. Eff. I 89-90.

566. NEW COURSE: "Physiology Laboratory (2) II For a description of course topics, see 466. Graduate-level requirements include students completing a series of directed laboratory exercises, then designing and carrying out an experiment of their own. P, Ecol. 437, 468; or V.Sc. 400a-400b; or Psio. 480. (Identical with An.S. 566, M.C.B. 566, Psio. 566, Tox. 566, V.Sc. 566) May be convened with 466." Eff. II 89-90.

568. Course number changed from "568R". Change semester offering "II". Eff. I 89-90.

568R. Change course number to "568". Change semester offering to "II". Eff. I 89-90.


571. Add: "Human Embryology (3) II (Identical with Anat. 571) May be convened with 471." Eff. II 89-90.


579. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read: "479/579". NOTE: Entry should have started with 579.

596m. NEW COURSE: Seminar: "Conservation Biology (1) [Rpt./6 units] II Analysis and discussion of recent studies in the preservation of biological diversity and the consequences of global change. Field trip." Eff. II 89-90.

ECONOMICS (ECON)


201a-201b. Delete "GRD". Add "CDT". Eff. I 89-90.

225. NEW COURSE: "Economic Inquiry (3) II Surveys the range of social science topics which economists study and discusses the various methodologies employed by economists. P, 200 or 201a-201b or 210." Eff. II 89-90.


340. NEW COURSE: "International Economics and Policy (3) I Normative and positive aspects of international trade and international monetary economics, with attention drawn to government policy as it relates to international commercial relationships. P, 200 or 201a-201b or 210. Credit allowed for 340 or 442, but not for both." Eff. I 89-90.

371. Course number changed from "411". Eff. II 90-91.

382. Change semester offering to "II". Eff. I 89-90.


418. Add semester offering "I". Eff. I 89-90

421. Course expansion to "421/521". Change semester offering to "II". Graduate-level requirements include a research paper or additional problem sets, depending on exact content. Change prerequisites of "511" to "P, 521." Eff. I 90-91.

424. NEW COURSE: "Topics in European, Chinese, or Japanese Economic History (3) I II Examines the economic history and development of medieval, early modern and modern Europe; the development and economic history of premodern and modern Japan and China. P, 300 or 361. May be convened with 524." Eff. I 90-91.

425. NEW COURSE: "Topics in the Economic History of the United States (3) I II Examines the economic history and development of the United States, including roles of legal and cultural institutions, changes in output mix, government regulation, income distribution, monetary policy, and demographic factors. P, 300 or 361. May be convened with 525." Eff. I 90-91.

444. NEW COURSE: "International Macroeconomics (3) I Macroeconomic analysis of exchange rates, the balance of payments, the balance of trade, national income, interest-rate differentials across countries, and inflation. P, 332." Eff. I 89-90.

475. Add: "Economics of Water and Land Resources (3) I (Identical with A.Ec. 475)".


480. Change course number to "480H". Eff. II 89-90.
Change to Curriculum Bulletin, Vol. 13, No. 7: Cancel change to Honors course.

511. Course expansion to "411/511". New listing for "511" reads: "Microeconomic Theory and Behavior (3) II For a description of course topics, see 411. Graduate-level requirements include a research paper or additional problem sets, depending on exact content. P, 521. May be convened with 411." Eff. II 90-91.
518. Add semester offering "I". Eff. I 89-90

519. Course number of "Mathematical Economics" changed from "521". Eff. I 90-91.

521. Change course number of "Mathematical Economics" to "519" to allow for course expansion of "421. Introduction to Mathematical Economics" to "421/521". Eff. I 90-91.

524. NEW COURSE: "Topics in European, Chinese, or Japanese Economic History (3) I II For a description of course topics, see 424. Graduate-level requirements include a research paper or additional problem sets, depending on exact course content. May be convened with 424." Eff. I 90-91.

525. NEW COURSE: "Topics in the Economic History of the United States (3) I II For a description of course topics, see 425. Graduate-level requirements include a research paper or additional problem sets, depending on exact course content. May be convened with 425." Eff. I 90-91.

575. Add: "Economics of Water and Land Resources (3) I (Identical with A.Ec. 575)".

EDUCATION (EDUC/EDA/EDP/HED/LRC/SER/TTE)

Education (EDUC)

604. NEW COURSE: "Leadership for Educational Change (3) I II S Investigations of the characteristics of leadership as they apply to changing basic educational organizational structures and processes." Eff. I 90-91.

606. NEW COURSE: "Policy Analysis in Education (3) I II S Understanding of and necessary skills to provide leadership in the area of educational policy development and analysis." Eff. I 90-91.

Educational Administration (EDA)

666. Change course number to "675". Eff. Summer Session I 1990.

675. Course number changed from "666". Eff. Summer Session I 1990.

693a. Change number of units to "(2-3)". Eff. I 89-90.

693b. Change number of units to "(3-4)". Eff. I 89-90.

Educational Psychology (EDP)

402. NEW COURSE: "Early Adolescent Development (3) II S Major cognitive, psychosocial, physical and anthropological developmental theory of early adolescence (ages 10-14 years old). Also, the implications of theory into practice regarding early adolescents and schooling. May be convened with 502." Eff. II 89-90.

502. NEW COURSE: "Early Adolescent Development (3) II S For a description of course topics, see 402. Graduate-level requirements include an in-depth research paper or other research project. May be convened with 402." Eff. II 89-90.

Language, Reading and Culture (LRC)

424. See "524" below.
430. See "530" below for effective dates for adding and deleting this listing.
430. See "530" below.
436. See "536" below.
481. See "581" below for effective dates for adding and deleting this listing.
524. Course expansion to "424/524". Graduate-level requirements include an in-depth research paper or other project on an aspect related to the course. Eff. I 89-90.
530. Course expansion to "430/530". Graduate-level requirements include an in-depth research paper or other project. Eff. I 89-90. Delete "430" listing. Eff. Summer 1990.
530. Course expansion to "430/530". Graduate-level requirements include an in-depth research paper or other project. Eff. I 90-91.
536. Course expansion to "436/536". Graduate-level requirements include an in-depth research paper or other project on an aspect related to the course. Eff. II 89-90.
581. Course expansion to "481/581". Graduate-level requirements include an in-depth research paper or other project. Eff. Summer 1990. Delete "481" listing. Eff. I 90-91.

Special Education and Rehabilitation (SER)

410. Course revised. New listing reads: "Introduction to Mental Retardation and Severe Disabilities (3) I II History and philosophy of educational programs for persons with mental retardation and other developmental disabilities; etiology, classification, and characteristics, with consideration of educational, social, and psychological problems. P, 400 or CR. May be convened with 510." Eff. II 90-91.
420. Delete listing. (Retain 520.) Eff. II 89-90.
421. NEW COURSE: "Introduction to Visual Impairments and Deaf-Blindness (3) I An overview of educational services for the student with visual impairments and multiple sensory impairments. An emphasis is placed on the psychosocial effects of visual impairments on the individual and means of compensating for those effects. May be convened with 521." Eff. I 89-90.
482. Course expansion to "455/555". Graduate-level requirements include an in-depth research paper and a class presentation on a topic related to course content. Eff. I 89-90.

494b. Course expansion to "494b/594b". Graduate-level requirements include manually coded English, idioms, receptive skills and regional variations. Eff. I 89-90.


501. Correction to Curriculum Bulletin, Vol. 12, No. 14: "501" should have been "501a-501b" which was changed to "507a-507b". Eff. I 89-90.


513. Change title to "Educating Students with Mental Retardation and Severe Disabilities". Eff. II 90-91.

520. Course revised. New listing reads: "Low Vision and Visual Functioning (3) I Anatomy and physiology of the eye; implications of visual disorders including visual field losses; introduction to optics; use of optical and nonoptical aids in classroom settings; clinical and functional low vision assessments, including assessing children with multiple impairments; and report writing." Eff. II 89-90.

521. NEW COURSE: "Introduction to Visual Impairments and Deal-Blindness (3) I For a description of course topics, see 421. Graduate-level requirements include in-depth paper(s) on aspects of current issues in the field. May be convened with 421." Eff. I 89-90.

523a-523b. Course expansion to "423a-423b/523a-523b". Graduate-level requirements include in-depth paper(s) on aspects of current issues and class presentations(s). Eff II 89-90. [For revised description, see 423a-423b above.]

555. See "482" above.

575. Add "[Rpt./6 units]". Eff. I 88-89.


594b. Change course number to "594a". "594b" then becomes occupied by course expansion from 494b above (Verify title: "Sign Language Laboratory"). Eff. I 89-90.

595c. Change title to "Mental Retardation and Severe Disabilities". Eff. II 90-91.

695c. Add "[Rpt./9 units]". Eff. I 88-89.

Teaching & Teacher Education (TTE)

300. NEW COURSE: "Classroom Processes and Instruction (4) I II Classroom observation, management, instruction, and planning processes. Attention to microcomputers, culture/language differences, special students, and substance abuse. 3R, 3L. Open to majors enrolled in College of Education only." Eff. I 89-90.

322. Course revised. New listing reads: "Teaching Language Arts and Communication in Elementary School (3) I II S The teaching of language and communicative arts in the elementary school, with special emphasis on current approaches and organization of methods and materials. P, Ed.P.,
310, Educ. 350, T.T.E. 300." Eff. I 90-91. [Note: No longer Writing-Emphasis Course.]


338g. Change the number of units to "(4)". Eff. I 90-91.


384. NEW COURSE: "Records/Information Management (3) I II S Systems of information management; creation, distribution, storage, transfer and disposition of office records; management aspects of establishing information systems and evaluating their efficiency." Eff. II 88-89.


442. DELETE: "Implementing Systems Instruction (3)". Eff. I 89-90.

443. DELETE: "Advanced Instructional Methods (3)". Eff. I 89-90.


449. DELETE: "Techniques of Teaching Adults (3)". Eff. I 89-90.

493c. DELETE: "Nonteaching Track (6)". Eff. I 89-90.


522. DELETE: "Learning through Play (3)". Eff. I 89-90.


595b. DELETE: "Curriculum (1-3)". Eff. I 89-90.
DELETE: "Instruction (1-3)". Eff. I 89-90.

DELETE: "Evaluation (1-3)". Eff. I 89-90.

DELETE: "Master's Colloquium (1-3)". Eff. I 89-90.

DELETE: "Classroom Teaching Innovations (1-3)". Eff. I 89-90.

DELETE: "Simulation and Gaming in the Classroom (1-3)". Eff. I 89-90.

DELETE: "Values Education in the Classroom (1-3)". Eff. I 89-90.

DELETE: "Educational Implications of Prejudice (1-3)". Eff. I 89-90.


NEW COURSE: "Policy Analysis in Teaching and Teacher Education (3) I II S Examination of policy development and enactment related to teaching and teacher education at local, state, and national levels, as well as methods and approaches to policy analysis. P, 539 and Educ. 500." Eff. I 89-90.

NEW COURSE: "Teacher/Student Cognition and Instruction (3) I II S An examination of cognitive models related to teacher comprehension, planning, and decision making; and to students' cognitive change and their interpretation of classroom events. P, 539 and 696b; and Educ. 500." Eff. I 89-90.


ELECTRICAL & COMPUTER ENGINEERING (ECE)


220a-220b. Change number of units to "(3-3)". Eff. I 89-90.

305. DELETE: "Engineering Analysis (3)". Eff. I 89-90.


422. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "422/522". At the beginning of the description, add: "Approximation;".


452. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have indicated a course number change to "552". No change in prerequisite.
482. Add semester offering "II". Change description to read: "Electrostatics and magnetostatics, review of Maxwell's equations, planes, waves, transmission lines, waveguides, cavity resonators, and antennas." Eff. I 90-91.
487. Course expansion to "487/587". (Title is "Fiber Optics Laboratory"). Eff. II 89-90.
554. Delete prerequisite "senior standing in engineering or science". Eff. I 89-90.
581. Course expansion to "581a-581b". Course revised. Eff. I 90-91. [For new listing, see "581a-581b".]

583. Change prerequisites to "P, 482." Delete "or other introductory electromagnetic course". Eff. I 89-90.


587. (1) Change course number to "562". (Title is "Plasma Etching"). Eff. II 89-90.
(2) Add: "Fiber Optics Laboratory (3) II 1990-91 (Identical with Opti. 587) May be convened with 487." Eff. II 89-90.


651. Change course number to "653". [Verify title: "Active Linear Circuit Design".] Eff. I 89-90. [Note to RDP: "651" and "653" are exchanging titles, etc.]


ENGINEERING & MINES (ENGR)

Page 75 of the General Catalog: In the Bachelor of Science in Industrial Engineering required curriculum, make the following changes:

(1) Under Sophomore Year, First Semester: Change "Free Elective" to "S.I.E. 270".
(2) Under Junior Year, First Semester: Change "Engl. 308" to "S.I.E. 350".
(3) Under Senior Year, Second Semester: Change the number of units for the "Tech. Elective" to "6", and add "Engl. 308" for "3" units.
(4) Delete the note preceded by a single asterisk.
(5) Change the first two lines of the note preceded by a triple asterisk to read: "Six units of technical electives must include at least one of the following: S.I.E. 406, 408, 453, 485, or 486. Others may be selected from a list of 300- and 400-".

Eff. II 89-90.

196a. Change title to "Survey of Engineering Professions". Eff. I 91-92. [Note: This is still an honors seminar and should be so noted in the Schedule of Classes.]

196b. Change title to "Engineering Design Proposal". Eff. I 91-92. [Note: This is still an honors seminar and should be so noted in the Schedule of Classes.]

ENGLISH (ENGL)


300. Course number changed from "300a". Course revised. New listing reads: "Literature and Film (3) I II The art of translating literature into film as aesthetic expression and the artistic medium of the narrative film." Eff. II 89-90.
300a. Change course number to "300". Course revised. Eff. II 89-90. [For new listing, see "300".]

300b. Change course number to "400". Course revised. Eff. II 89-90. [For new listing, see "400".]


400. Course number changed from "300b". Course revised. New listing reads: "Themes in Literature and Film (3) I II Special topics or themes in literature and film. P, 300." Eff. II 89-90.

403. Course expansion and number change to "414/514". Graduate-level requirements include more detailed and lengthier papers. Eff. I 89-90.

406. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "406/506".

414. See "403" above.

420. Course expansion and number change to "421/521". Graduate-level requirements include additional readings and a special topics paper. Eff. II 89-90.

421. See "420" above.


443. Add: "Mexican-American Literature (3) II (Identical with Span. 443) May be convened with 543." Eff. I 89-90.

470. NEW COURSE: "Literature and Major Philosophers (3) I II Selected works of literature in connection with particular philosophical statements or problems. An honors section is available. P, freshman composition; upper-division standing." Eff. I 89-90.

496v. See "596e" below.

514. See "403" above.

521. See "420" above.

524. NEW COURSE: "Studies in Southwest Literature (3) I II For a description of course topics, see 424. Graduate-level requirements include an additional term paper. (Identical with A.In.S. 524) May be convened with 424." Eff. II 89-90.


596e. Course expansion and number change to "496v/596v". Course title changed to "Major British Writer". Eff. I 89-90. Course contraction and number change to "596e". Course title changed to "Twentieth-Century British Literature". Eff. II 89-90.

596g. Add crosslistings: "(Identical with Anth. 596g and W.S. 596g)". Eff. I 90-91.
[Note: Smr. 2 only.]
Delete crosslistings: "(Identical with Anth. 596g and W.S. 596g)". Eff. II 90-91.

596h. Add [Rpt./10]. Eff. I 82-83.


596v. See "596e" above.

597r. NEW COURSE: Workshop: "Research and Composition (3) II". Eff. I 90-91.


615. NEW COURSE: "Second Language Acquisition (3) I Survey of major perspectives on second language acquisition processes, including inter-language theory, the Monitor Model, acculturation/pidginization theory, cognitive/connectionist theory, and linguistic universals. Analysis of research from the different perspectives includes consideration of grammatical, pragmatic, and sociolinguistic dimensions of language learning." Eff. I 90-91.

EXERCISE & SPORT SCIENCES See HEALTH-RELATED PROFESSIONS

FAMILY & CONSUMER RESOURCES (FCR/FS/CT/ID/COUN/HEE/CS)

Clothing and Textiles (CT)

Page 152 of the General Catalog: In the first column, in the first line, under the requirements for the major in merchandising and fashion promotion, change "F.S. 117" to "F.S. 337". Eff. I 90-91.


284R. Change course number to "284". Change number of units to "(4)". Change prerequisites to "P, Chem. 101a, 102a, or Phys. 102a, 180a." Eff. I 90-91.

325. Change semester offering to "I". Eff. I 89-90.


NEW COURSE: "Consumer Concepts and Theory (3) I For a description of course topics, see 440. Graduate-level requirements include reading and developing weekly briefs of research articles in the literature on consumer behavior for presentations in class, tests on supplemental readings, and a term paper 10 pages longer and including 20 additional academic references than those required of undergraduates. May be convened with 440." Eff. I 90-91.

Change prerequisites to "P, 145, 325, Soc. 100, Psyc. 101, Econ. 201a." Eff. II 89-90.

NEW COURSE: "Analysis of Family Studies (3) I An analysis of major research topics; critical resources relevant to graduate training; and ethical/professional issues related to the conduct of research." Eff. I 90-91.

Course revised. New listing reads: "Theories of Human Development (3) II Analysis of the major paradigms and world views influencing the study of human development. Overview of key issues and controversies arising in the field as well as evaluations of specific theories and specific theorists." Eff. II 88-89.

Course revised. New listing reads: "Theories of the Family (3) II Major theories of the family to include theory construction, historical roots of family theories, and classic and contemporary family theories." Eff. Summer 1989.


Change the number of units to "(4)". Eff. I 90-91.

Add: "Landscape Design Process (2) (Identical with LAr. 202)". Eff II 89-90.


Course expansion to "405/505". Graduate-level requirements include an in-depth research paper on a design-related aspect or issue. Eff. I 89-90.

Course expansion to "455/555". Graduate-level requirements include an in-depth research paper on a design-related topic of issue. Eff. I 89-90.

Course expansion to "475/575". Graduate-level requirements include projects that require actual clients and budgets. Eff. I 89-90.

Course expansion to "485/585". Graduate-level requirements include an in-depth research study of local dealerships and designers' studies relative to major products available, discount structure offered, and design fees. An evaluation of three manufacturers' similar products is also required. Eff. I 89-90.
488. Course expansion to "488/588". Graduate-level requirements include application of current researched information to an actual design project and client. Eff. I 89-90.

505. See "405" above.

555. See "455" above.

575. See "475" above.

585. See "485" above.

588. See "488" above.

FINANCE & REAL ESTATE (FIN)


463. Correction to Curriculum Bulletin, Vol. 12, No. 14: Error was listing this course, which was deleted in Curriculum Bulletin, Vol. 12, No. 13.

481. Change course number to "481H". Eff. II 89-90.


484. Change course number to "484H". (Home department is Management & Policy.) Eff. II 89-90.

484. Correction to Curriculum Bulletin, Vol. 13, No. 7: Cancel change to Honors course.


FINE ARTS (FA)

Page 17 of the General Catalog: Correction to General Education Requirements: In the "General Education Requirements of the Colleges" chart, change the following in the FA column: "Non-West Civ." should be "0-3", "Other" should be "3-12", and the "Total" for FA should be "45". Add footnote number 5 to the FA column head, and add the following footnote number 5 to the bottom of the page: "This column identifies requirements for the B.F.A. and B.M. degrees; students seeking a B.A. degree should follow the requirements listed under A & S." Eff. I 89-90.

Page 48 of the General Catalog: Correction: Under "E. The Arts and Literature (6 units)", add the following to the end, after the word "literature" (delete period): "from all fine arts offerings in departments other than the student's major, with only one course of applied (studio/performance/production) arts accepted." Eff. I 89-90.

397a. Add: "Writing for the Arts (3) I II (Identical with Dram. 397a, which is home)". Eff. I 89-90.

FRENCH & ITALIAN (FRE/ITA)

French (FRE)


402. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "402 (Delete GC)".


520a. Change course number to "520". Course revised. Eff. I 90-91. [For new listing, see "520"].

520b. DELETE: "Old French Language and Literature (3)". Eff. I 90-91.

551. DELETE: "Literature of the Fantastic (3)". Eff. I 89-90.

557. DELETE: "Rousseau (3)". Eff. I 89-90.

558. DELETE: "Realism and Naturalism in the Novel (3)". Eff. I 89-90.

559. DELETE: "Contemporary Theatre (3)". Eff. I 89-90.

696. Add note at end: "** May be repeated for credit when content varies. Consult department for current topics." Eff. II 89-90.


696k. NEW COURSE: Seminar. "Francophone Literature and Culture (3) [Rpt.]*. Add note "**May be repeated for credit when content varies. Consult department for current topics." Eff. I 89-90.

Italian (ITA)

402. Course expansion to "402/502". Graduate-level requirements include more demanding readings and other assignments. Eff. II 89-90.

404. Course expansion to "404/504". Graduate-level requirements include more demanding readings and other assignments. Eff. II 89-90.

405a-405b. Course expansion to "405a-405b/505a-505b". Graduate-level requirements include more demanding readings and other assignments. Eff. II 89-90.

406a-406b. Course expansion to "406a-406b/506a-506b". Graduate-level requirements include more demanding readings and other assignments. Eff. II 89-90.

502. See "402" above.
504. See "404" above.
505a-505b. See "405a-405b" above.
506a-506b. See "406a-406b" above.

GENETICS (GENE)

473. Change number of units to "(4)". Eff. II 89-90.
573. Change number of units to "(4)". Eff. II 89-90.
574. Add: "Advances in Mammalian Genetics (2) [Rpt./1] I 1990-91 (Identical with Bioc. 574)". Eff. I 90-91.
589. Course number changed from "596f". Change alternate year to "1991-92". Eff. II 90-91.
596f. Change course number to "589". [For other changes, see "589".] Eff. II 90-91.

GEOGRAPHY & REGIONAL DEVELOPMENT (GEOG)

373. NEW COURSE: "Political Geography (3) II Explores links between global economic and political processes, national affairs and local politics. Designed to foster participation; assessment is via essays and assignments." Eff. II 89-90.
408. Change semester offering to "I". Eff. I 89-90.
461. Change semester offering to "II". Eff. I 89-90.
469. Change Or.S. crosslisting to read "(Identical with N.E.S. 469)". Eff. I 90-91.
481. Change semester offering to "I". Eff. I 89-90.
485. Corrections/Amendments to Curriculum Bulletin, Vol. 12, No. 14: Course was erroneously included in CB1214; it was deleted in CB1211.
563. Change semester offering to "II". Eff. I 89-90.
571. Change semester offering to "II". Eff. I 89-90.
689. Change semester offering to "II". Eff. I 89-90.
NEW COURSE: "Environmental Geology (3) I II Introduction to geologic studies and their application to current environmental problems, their causes and possible solutions. Focuses on surface geologic processes and geohazards, natural resources, and global systems. Optional field trips. Primarily for nonmajors." Eff. I 90-91.


Course number change from "315a". Course revised. New listing reads: "Introduction to Petrology (4) GRD II Classification, distribution, and genesis of igneous and metamorphic rocks; chemical diagenesis. Hand specimen and thin section analysis. 3R, 3L. P, 209. Anovitz/Ganguly". Eff. II 90-91.

Change course number to "315". Course revised. Eff. II 90-91. [For new listing, see "315"].

DELETE: "Introduction to Petrology (3)". Eff. II 90-91.

See "500" below.


Corrections to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "408/508". Alternate year should have been "1990-91".

See "523" below.

Course expansion to "424/524". Graduate-level requirements include an in-depth research paper on a topic selected by the student and instructor. Eff. II 89-90.

See "526" below.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "450/550". Graduate-level requirements include panel leadership on environmental discussion sessions and additional lab exercise questions.

Change instructor's name to "Swetnam". Eff. I 89-90.

Change alternate year to "1990-91". Eff. I 89-90.

NEW COURSE: "Global Change (3) II Analysis of the entire Earth system through an examination of how its component parts and their interactions have changed in the past and may be expected to change in the future. P, upper-division undergraduate or graduate standing; introductory course work in biological and physical sciences. (Identical with Ecol. 478, Hydr. 478 and R.N.R. 478) May be convened with 578." Eff. Summer 1989.


Course expansion to "400/500". Graduate-level requirements include an independent research report. Eff. I 90-91.


Change units to "(3)". Eff. II 89-90.

523. Course expansion to "423/523". Graduate-level requirements include additional reading assignments on structural processes and regional geology. Eff. I 90-91.

524. See "424" above.

526. Course expansion to "426/526". Graduate-level requirements include final report concerning some aspect of the tectonic evolution of western North America. Eff. I 90-91.

(2) Course expansion from "450" to "450/550". (Geomorphology (4)"). Graduate-level requirements include panel/leadership on environmental discussion sessions, and additional lab exercise questions." On both levels, add: "5R, 5L. Field trips. P, 101, 103. Bull". Eff. I 89-90.

564a-564b. Change instructor's name to "Swetnam". Eff. I 89-90.

578. NEW COURSE: "Global Change (3) II For a description of course topics, see 478. Graduate-level requirements include an in-depth research paper on a topic selected by the student and instructor. P, upper-division undergraduate or graduate standing; introductory course work in biological and physical sciences. (Identical with Ecol. 578, Hydr. 578 and R.N.R. 578) May be convened with 478." Eff. Summer 1989.


GERMAN (GER)

203. NEW COURSE: "Intensive Intermediate German (8) I GRD Intensive intermediate German for students to proceed at an accelerated pace to cover a greater variety of materials and topics than offered in German 201 and 202. An honors section is available. Enrollment contingent on personal interview and an exam given in the first week of class. 8R, 2L. P, "A" in 102 and honors program requirements." Eff. I 90-91.


497b. Change Or.S. crosslisting to read "(Identical with N.E.S. 497b)". Eff. I 90-91.
Correction to Curriculum Bulletin, Vol. 12, No. 14: Add to 500 level: Graduate-level requirements include an additional oral report and an in-depth research paper. Note: X-list with ENGL on 500 level only.

GERONTOLOGY (GERO)


Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "470a only".


HEALTH-RELATED PROFESSIONS (HLTH/OSH/EXSS/MEDT)

Exercise & Sport Science (EXSS)


NEW COURSE: "Beginning Folk Dance (1) S Daily, group instruction in the folk dances of different regions of Mexico. Offered in Guadalajara only. 5S." Eff. Summer 1990.


Change number of units to "(2)". Eff. Summer 1990.

NEW COURSE: "Exercise Testing and Prescription (2) I General principles of exercise testing and exercise prescription; laboratory procedures employed in programs of preventative medicine, cardiac rehabilitation and fitness enhancement. 1R, 3L. P, CR, 530." Eff. I 89-90.

Change number of units to "(2)". Change class structure to "1R, 7L." Change prerequisites to "P, 530, 540, 551, CPR certification." Eff. II 89-90.

Change number of units to "(2)". Change class structure to "1R, 7L." Change prerequisites to "P, 530, 540, 551, CPR certification." Eff. II 89-90.

DELETE: "Exercise Technician/Exercise Prescription (2)". Eff. I 89-90.

Course number changed from "791a". Change number of units to "(1-3)". Change semester offering to "I II S". Change class structure to "3-9L." Change prerequisites to "P, 570, 571." Eff. II 89-90.

Change course number to "691a". Course revised. Eff. II 89-90. [For other changes, see "691a"].

Medical Technology (MEDT)


Course number changed from "481a". Course revised. New listing reads: "Fundamental Laboratory Techniques in Clinical Hematology (2) [Rpt./1] II Basic laboratory techniques in clinical hematology with emphasis on manual and automated hematological procedures. Instruction includes proper procedural methodologies, quality control, the use of controls and

471R. Course number changed from "481a". Course revised. New listing reads: "Lectures in Clinical Hematology (3) [Rpt./1] II Lectures in basic hematology and hematological procedures including cell structure and function, inherited and acquired anomalies, hemostasis, cell enumeration and differentiation, cytogenetics. P, consult committee before enrolling. May be convened with 571R.* Eff. I 90-91.

472L. Course number changed from "482a". Course revised. New listing reads: "Fundamental Laboratory Techniques in Immunology and Immunohematology (1) [Rpt./1] I Basic laboratory techniques in serological procedures and blood banking. Emphasis will be placed on procedural methodologies, quality control, the use of controls and standards, and interpretation of laboratory test results. P, CR, 472R/572R, consult committee before enrolling. May be convened with 572L.* Eff. I 90-91.

472R. Course number changed from "482a". Course revised. New listing reads: "Lectures in Clinical Immunology and Immunohematology (3) [Rpt./1] I Lectures in serological methods used in the clinical laboratory and interpretation of results; blood banking procedures. P, consult committee before enrolling. May be convened with 572R.* Eff. I 90-91.

473L. Course number changed from "483a". Course revised. New listing reads: "Fundamental Laboratory Techniques in Clinical Chemistry (1) [Rpt./1] I Basic laboratory techniques in clinical chemistry. Emphasis will be placed on procedural methodologies, quality control, the use of controls and standards, and interpretation of laboratory test results. P, CR, 473R/573R, consult committee before enrolling. May be convened with 573L.* Eff. I 90-91.

473R. Course number changed from "483a". Course revised. New listing reads: "Lectures in Clinical Chemistry (5) [Rpt./1] II Lectures encompassing the fundamental concepts of clinical laboratory chemistry including pathophysiology and clinical correlations. P, consult committee before enrolling. May be convened with 573R.* Eff. I 90-91.

474L. Course number changed from "484a". Course revised. New listing reads: "Fundamental Laboratory Techniques in Clinical Bacteriology (1) [Rpt./1] I Basic laboratory techniques used in the isolation and identification of bacteria pathogenic for humans. Standard and specialized media/biochemical tests are utilized. P, CR, 474R/574R, consult committee before enrolling. May be convened with 574L.* Eff. I 90-91.

474R. Course number changed from "484a". Course revised. New listing reads: "Lectures in Clinical Bacteriology (4) [Rpt./1] I Lectures relating to laboratory techniques used to safely isolate and identify pathogenic bacteria. Special media/tests, organismal virulence factors, pathological effects occurring within the host and antibiotic susceptibility testing of bacteria are covered. P, consult committee before enrolling. May be convened with 574R.* Eff. I 90-91.

475a-475b-475c. NEW COURSE: "Topics in Clinical Microbiology (2-1-1) [Rpt./1] II S 475a: Clinical Parasitology. Diagnostic methodologies with emphasis on the laboratory identification of clinically relevant parasites. 475b: Clinical Virology. Diagnostic methodologies with emphasis on the laboratory identification of clinically relevant viruses. 475c: Clinical Mycology and
Mycobacteriology. Diagnostic methodologies with emphasis on the laboratory identification of clinically relevant fungi and Mycobacterium sp. P, consult committee before enrolling. May be convened with 575a-575b-575c. Eff. II 89-90.


481a-481b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "481a-481b/581a-581b". Graduate-level requirements include an additional hour per week and a special project. Eff. I 89-90.


481a. Course expansion and number change to "471R" and "471L". Course revised. Eff. I 90-91. [For new listings, see "471R" and "471L".]

481b. Course number change to "481". Course revised. Eff. I 90-91. [For new listing, see "481".]

482a-482b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read: "482a-482b/582a-582b". Graduate-level requirements are the same as for Medt. 481a-481b, above. Eff. I 89-90.


482a. Course expansion and number change to "472R" and "472L". Course revised. Eff. I 90-91. [For new listings, see "472R" and "472L".]

482b. Course number change to "482". Course revised. Eff. I 90-91. [For new listing, see "482".]

483a-483b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "483a-b/583a-583b". Graduate-level requirements are the same as for Medt. 481a-481b, above. Eff. I 89-90.


483a. Course expansion and number change to "473R" and "473L". Course revised. Eff. I 90-91. [For new listings, see "473R" and "473L".]

483b. Course number change to "483". Course revised. Eff. I 90-91. [For new listing, see "483".]
484a - 484b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "484a-484b/584a-584b". Graduate-level requirements are the same as for Medt. 481a-481b, above. Eff. I 89-90.


484a. Course expansion and course number change to "474R" and "474L". Course revised. Eff. I 90-91. [For new listings, see "474R" and "474L".]

484b. Course number change to "484". Course revised. Eff. I 90-91. [For new listing, see "484".]

485. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "485/585". Graduate-level requirements are the same as for Medt. 481a-481b, above. Eff. I 89-90.

485. Course number change to "476". Course revised. Eff. I 90-91. [For new listing, see "476".]

496a. Change semester offering to "I". Add "Writing-Emphasis Course. P, satisfaction of the upper-division writing-proficiency requirement (see Writing-Emphasis Courses" in the Academic Guidelines section of this catalog)." Eff. I 90-91.

571L. Course number change from "581a". Course revised. New listing reads: "Fundamental Laboratory Techniques in Clinical Hematology (2) [Rpt./1] II For a description of course topics, see 471L. Graduate-level requirements include a research paper relating to new laboratory methodologies applicable to clinical hematology. P, CR, 471R/571R, consult committee before enrolling. May be convened with 471L." Eff. I 90-91.

571R. Course number change from "581a". Course revised. New listing reads: "Lectures in Clinical Hematology (3) [Rpt./1] II For a description of course topics, see 471R. Graduate-level requirements include a research paper on selected topics related to clinical laboratory hematology. P, consult committee before enrolling. May be convened with 471R." Eff. I 90-91.

572L. Course number changed from "582a". Course revised New listing reads: "Fundamental Laboratory Techniques in Immunology and Immunohematology (1) [Rpt./1] I For a description of course topics, see 472L. Graduate-level requirements include a research paper relating to new laboratory methodologies applicable to clinical serology or blood banking. P, CR, 472R/572R, consult committee before enrolling. May be convened with 472L." Eff. I 90-91.

572R. Course number changed from "582a". Course revised New listing reads: "Lectures in Clinical Immunology and Immunohematology (3) [Rpt./1] I For a description of course topics, see 472R. Graduate-level requirements include a research paper on selected topics relating to clinical laboratory serology or blood banking. P, consult with committee before enrolling. May be convened with 472R." Eff. I 90-91.

573L. Course number changed from "583a". Course revised. New listing reads: "Fundamental Laboratory Techniques in Clinical Chemistry (1) [Rpt./1] II For a description of course topics, see 473L. Graduate-level requirements include a research paper relating to new laboratory methodologies..."

573R. Course number changed from "583a". Course revised. New listing reads: "Lectures in Clinical Chemistry (5) [Rpt./1] II For a description of course topics, see 473R. Graduate-level requirements include a research paper on selected topics relating to clinical laboratory chemistry. P, consult committee before enrolling. May be convened with 473R." Eff. I 90-91.

574L. Course number changed from "584a". Course revised. New listing reads: "Fundamental Laboratory Techniques in Clinical Bacteriology (1) [Rpt./1] I For a description of course topics, see 474L. Graduate-level requirements include a research paper relating to new laboratory methodologies applicable to clinical bacteriology. P, CR, 474R/574R, consult committee before enrolling. May be convened with 474L." Eff. I 90-91.

574R. Course number changed from "584a". Course revised. New listing reads: "Lectures in Clinical Bacteriology (4) [Rpt./1] I For a description of course topics, see 474R. Graduate-level requirements include a research paper on selected topics relating to clinical laboratory bacteriology. P, consult committee before enrolling. May be convened with 474R." Eff. I 90-91.

575a-575b-575c. NEW COURSE: "Topics in Clinical Microbiology (2-1-1) [Rpt./1] II S I For a description of course topics, see 475a-475b-475c. Graduate-level requirements include a research paper on selected topics relating to clinical parasitology, virology, mycology or mycobacteriology. P, consult committee before enrolling. May be convened with 475a-475b-475c." Eff. II 89-90.

576. Course number changed from "585". Course revised. New listing reads: "Principles of Laboratory Science (3) [Rpt./1] II For a description of course topics, see 476. Graduate-level requirements include a research paper on selected topics that focus on the use of statistical analysis for biological systems, or on selected topics relating to new techniques in body fluid analysis or urinalysis. P, consult committee before enrolling. May be convened with 476." Eff. I 90-91.


581a. Course expansion and number change to "571R" and "571L". Course revised. Eff. I 90-91. [For new listings, see "571R" and "571L".]

581b. Course number change to "581". Course revised. Eff. I 90-91. [For new listing, see "581".]

582. Course number changed from "582b". Course revised. New listing reads: "Clinical Laboratory Immunology and Immunohematology (5) [Rpt./1] II For a description of course topics, see 482. Graduate-level requirements include a research paper relating to advanced laboratory methodologies in clinical serology or blood banking. P, 387, 471R/571R, 471L/571L, 472R/572R, 472L/572L, 473R/573R, 473L/573L, 474R/574R, 474L/574L, 475a/575a, 475b/575b, 475c/575c, 476/576, 496a, consult committee before enrolling. May be convened with 482." Eff. I 90-91.
582a. Course expansion and number change to "572R" and "572L". Course revised. Eff. I 90-91. [For new listings, see "572R" and "572L".]

582b. Course number change to "582". Course revised. Eff. I 90-91. [For new listing, see "582".]

583. Course number change from "583b". Course revised. New listing reads: "Clinical Laboratory Chemistry (4) [Rpt./1] I II For a description of course topics, see 483. Graduate-level requirements include a research paper relating to advanced laboratory methodologies in clinical chemistry. P, 387, 471R/571R, 471L/571L, 472R/572R, 472L/572L, 473R/573R, 473L/573L, 474R/574R, 474L/574L, 475a/575a, 475b/575b, 475c/575c, 476/576, 496a, consult committee before enrolling. May be convened with 483." Eff. I 90-91.

583a. Course expansion and number change to "573R" and "573L". Course revised. Eff. I 90-91. [For new listings, see "573R" and "573L".]

583b. Course number change to "583". Course revised. Eff. I 90-91. [For new listing, see "583".]

584. Course number changed from "584b". Course revised. New listing reads: "Clinical Laboratory Microbiology (5) [Rpt./1] I II For a description of course topics, see 484. Graduate-level requirements include a research paper relating to advanced laboratory methodologies in clinical microbiology. P, 387, 471R/571R, 471L/571L, 472R/572R, 472L/572L, 473R/573R, 473L/573L, 474R/574R, 474L/574L, 475a/575a, 475b/575b, 475c/575c, 476/576, 496a, consult committee before enrolling. May be convened with 484." Eff. I 90-91.

584a. Course expansion and course number change to "574R" and "574L". Course revised. Eff. I 90-91. [For new listings, see "574R" and "574L".]

584b. Course number change to "584". Course revised. Eff. I 90-91. [For new listing, see "584".]

585. Course number changed to "576". Course revised. Eff. I 90-91. [For new listing, see "576".]

Occupational Safety and Health (OSH)

486. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "486/586". NOTE: Delete X-list with FIN.

487. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "487/587". NOTE: Delete X-list with FIN.

HISTORY (HIST)


312. NEW COURSE: "Material Life and History in Europe, 1450-1950 (3) II [Rpt./6 units] Survey of historical economic theories and practices as they
are embedded in social relations in Europe and America. Late middle ages to present." Eff. II 89-90.


317. NEW COURSE: "History of Modern Ireland (3) I II 1990-91 Survey of Irish history from the Union in 1800 to the present; the course will emphasize the political, cultural, and religious bases of Irish history." Eff. II 88-89.

318. NEW COURSE: "English Legal and Constitutional History (3) I II 1990-91 Survey of the origins and development of the English common law from the Anglo-Saxons to the present." Eff. II 88-89.


361. NEW COURSE: "The U.S.-Mexico Border Region (3) I Evolution of the borderlands since the mid-nineteenth century, with emphasis on binational interaction and interdependence. (Identical with M.A.S. 361)". Eff. I 90-91.


375b. Change Or.S. crosslisting to read "(Identical with Chn. 376)". Eff. I 90-91.

404a-404b. Course expansion to "404a-404b/504a-504b". Graduate-level requirements include an additional in-depth research paper. Keep crosslisting with Classics on 400-level only. Eff. I 90-91.

407. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "407/507". NOTE: X-list with RELI on 400 level only.

408. Course expansion to "408/508". Graduate-level requirements include an in-depth research paper. NOTE: X-list with Reli. on 400 level only. Eff. II 89-90.

416. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "416/516". NOTE: X-list with RELI on 400 level only.

421. Add crosslisting: "(Identical with R.S.S. 421)". Eff. I 89-90. (Note: Do not add crosslist on 500 level.)

422. Add crosslisting: "(Identical with R.S.S. 422)". Eff. I 89-90. (Note: Do not add crosslist on 500 level.)

423. Add crosslisting: "(Identical with R.S.S. 423)". Eff. II 89-90. (Note: Do not add crosslist on 500-level.)

424. Add crosslisting: "(Identical with R.S.S. 424)". Eff. II 89-90. (Note: Do not add crosslist on 500-level.)
425. Add crosslisting: "(Identical with R.S.S. 425)". Eff. II 89-90. (Note: Do not add crosslist on 500-level.)


456. NEW COURSE: "Central America: From Colonialism to Revolution (3) II Social, economic, and political history of Central America from colonial period to the present, focusing on the origins of contemporary crisis. (Identical with L.A.S. 456) May be convened with 556." Eff. II 89-90.

457. Course expansion to "457/557". Graduate-level requirements include extra readings and an in-depth research paper. Eff. Summer 1990.


468a-468b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "468a-468b/568a-568b".

468a-468b. Change Or.S. crosslisting to read "(Identical with N.E.S. 468a-468b)". Eff. I 90-91.


470. Change Or.S. crosslisting to read "(Identical with N.E.S. 470)". Eff. I 90-91.


475a-475b-475c-475d-475e. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "475a-475b-475c-475d-475e (Delete GC)".

475a-475b. Course expansion to "475a-475b/575a-575b". Graduate-level requirements include building bibliography, submitting reports, and writing a paper at the end of the course similar to that report required in a preliminary doctoral exam. NOTE: X-list with ORS on both 400 and 500 levels. Eff. I 89-90.

475c-475d-475e. Course expansion to "475c-475d-475e/575c-575d-575e". Graduate-level requirements include building bibliography, submitting reports, writing a paper at the end of the course similar to that report required in a preliminary doctoral exam. Eff. II 89-90.

475a-475b-475c-475d-475e. Transfer course from History to Oriental Studies under "Chn.". Retain crosslisting with History. Change crosslisting to read "(Identical with Chn.475a-475b-475c-475d-475e)". Eff. I 90-91.


477a-477b. Change Or.S. crosslisting to read "(Identical with N.E.S. 477a-477b)". Eff. I 90-91.

479. NEW COURSE: "The Ottoman Empire to 1800 (3) II 1989-90 History of Ottoman Empire from its origins through the direct Western European impact, focusing on the political and social history of the empire in Europe and Asia. May be convened with 579." Eff. II 89-90.

480a-480b. Change Or.S. crosslisting to read "(Identical with N.E.S. 480a-480b)". Eff. I 90-91.

482. Change Or.S. crosslisting to read "(Identical with Chn. 482)". Eff. I 90-91.

487a-487b. Course number changed from "491a-491b". Eff. I 88-89.


491a-491b. Change course number to "487a-487b". Retained "GC". Effective I 88-89.


495i. Transfer from History (HIST) to Chinese (CHN). Retain crosslistings with History (HIST) and Religious Studies (RELI). Change crosslisting to read "(Identical with Chn. 495i)".Eff. I 90-91.

495j. Transfer from History (HIST) to Chinese (CHN). Retain crosslistings with History (HIST) and Religious Studies (RELI). Change crosslisting to read "(Identical with Chn. 495j)".Eff. I 90-91.

495r. Delete listing. Eff. II 89-90.

495r. Add: "Chinese History Since 1949 (3) II (Identical with Chn. 495r, which is home) May be convened with 595r." Eff. I 90-91.

504a-504b. See "404a-404b" above.

508. See "408" above.


556. NEW COURSE: "Central America: From Colonialism to Revolution (3) II For a description of course topics, see 456. Graduate-level requirements include an extra four-page book review and a ten-page research paper. (Identical with L.A.S. 556) May be convened with 456." Eff. II 89-90.

557. See "457" above.


568a-568b. Change crosslisting to read "(Identical with N.E.S. 568a-568b)". Eff. I 90-91.


570. Change crosslisting to read "(Identical with N.E.S. 570)". Eff. I 90-91.

573. Change crosslisting to read "(Identical with N.E.S. 573)". Eff. I 90-91.

574a-574b-574c. Change crosslisting to read "(Identical with Jpn. 574a-574b-574c)". Eff. I 90-91.

575a-575b. See "475a-475b" above.

575c-575d-575e. See "475c-475d-475e" above.


577a-577b. Change crosslisting to read "(Identical with N.E.S. 577a-577b)". Eff. I 90-91.

578. Change crosslisting to read "(Identical with N.E.S. 578)". Eff. I 90-91.

579. NEW COURSE: "The Ottoman Empire to 1800 (3) II 1989-90 For a description of course topics, see 479. Graduate-level requirements include an in-depth research paper. May be convened with 479." Eff. II 89-90.

582. Change crosslisting to read "(Identical with Chn. 582)". Eff. I 90-91.


592. Change crosslisting to read "(Identical with N.E.S. 592)". Eff. I 90-91.

595a. Change to "[Rpt./10]". Eff. II 89-90.

595b. Change to "[Rpt./10]". Eff. II 89-90.

595c. Change to "[Rpt./10]". Eff. II 89-90.

595e. Change to "[Rpt./10]". Eff. II 89-90.

595f. Change to "[Rpt./10]". Eff. II 89-90.


595r. Delete listing. Eff. II 89-90.

595r. Add: "Chinese History Since 1949 (3) I II (Identical with Chn. 595r, which is home) May be convened with 495r." Eff. I 90-91.

596a. Change to "[Rpt./10]". Eff. II 89-90.

596b. Change to "[Rpt./10]". Eff. II 89-90.

596c. Change to "[Rpt./10]". Eff. II 89-90.

596d. Change to "[Rpt./10]". Eff. II 89-90.

596e. Change to "[Rpt./10]". Eff. II 89-90.
596f. Change to "[Rpt./10]". Eff. II 89-90.
596g. Change to "[Rpt./10]". Eff. II 89-90.
596h. Change to "[Rpt./10]". Eff. II 89-90.
596i. Change to "[Rpt./10]". Eff. II 89-90. 
596j. Change to "[Rpt./10]". Eff. II 89-90. 
596k. Change to "[Rpt./10]". Eff. II 89-90.
596m. Change to "[Rpt./10]". Eff. II 89-90.

HYDROLOGY & WATER RESOURCES (HYDR/WRA)

Hydrology (HYDR)


560. Correction to General Catalog. Transfer this course from "Hydr." to "W.R.A." Eff. I 89-90.

696b. Change number of units to "(1-3)". Eff. II 89-90.

Water Resources Administration (WRA)


560. Correction to Curriculum Bulletin, Vol. 12, No. 12: Effective date should have been II 88-89.


596k. Correction to General Catalog. Transfer this course to "W.R.A." from "Hydr." Eff. I 89-90.

JOURNALISM (JOUR)


LANGUAGE, READING & CULTURE See EDUCATION

LATIN AMERICAN STUDIES (LAS)

301a-301b. Add: "Intermediate Portuguese (3-3) I II (Identical with Port. 301a-301b)". Eff. I 90-91.


Add: "Creative Writing in Spanish (3) II (Identical with Span. 415) May be convened with 515." Eff. I 90-91.


Add: "Peoples of Mexico (3) II (Identical with Anth. 423) May be convened with 523." Eff. I 90-91.


Add: "Anthropology and Development (3) II (Identical with Anth. 431) May be convened with 531." Eff. I 90-91.

Add: "Pre-Columbian Culture and Myths (3) II 1990-91 (Identical with Span. 432) May be convened with 532." Eff. I 90-91.


Add: "Mexican-American Literature (3) II (Identical with Span. 443) May be convened with 543." Eff. I 90-91.


Add: "Brazilian Literature in Film (3) I 1990-91 (Identical with Port. 449) May be convened with 549." Eff. I 90-91.

Add: "Religion and Politics (3) II (Identical with Pol. 450)". Eff. I 90-91.

Add: "Mesoamerican Archaeology (3-3) I II (Identical with Anth. 453a-453b) May be convened with 553a-553b." Eff. I 90-91.

Add: "Andean Archaeology (3) II (Identical with Anth. 454) May be convened with 554." Eff. I 90-91.

Add: "Central America: From Colonialism to Revolution (3) II (Identical with Hist. 456) May be convened with 556." Eff. II 89-90.


466. Add: "History of Brazil (3) II (Identical with Hist. 466) May be convened with 566." Eff. I 90-91.


505. Add: "Advanced Composition and Conversation (3) III (Identical with Span. 505) May be convened with 405." Eff. I 90-91.


532. Add: "Pre-Columbian Culture and Myths (3) II 1990-91 (Identical with Span. 532) May be convened with 432." Eff. I 90-91.


Add: "Latin American Political Development (3) II (Identical with Pol. 547)". Eff. I 90-91.


Add: "Brazilian Literature in Film (3) I 1990-91 (Identical with Port. 549) May be convened with 449." Eff. I 90-91.

Add: "Religion and Politics (3) II (Identical with Pol. 550)". Eff. I 90-91.

Add: "Mesoamerican Archaeology (3-3) II (Identical with Anth. 553a-553b) May be convened with 453a-453b." Eff. I 90-91.

Add: "Andean Archaeology (3) II (Identical with Anth. 554) May be convened with 454." Eff. I 90-91.

Add: "Central America: From Colonialism to Revolution (3) II (Identical with Hist. 556) May be convened with 456." Eff. II 89-90.


Add: "Agricultural Economic Development in Latin America (3) II (Identical with A.Ec. 559)". Eff. I 90-91.


Add: "Women in International Development (3) II (Identical with Anth. 565) May be convened with 465." Eff. I 90-91.

Add: "History of Brazil (3) II (Identical with Hist. 566) May be convened with 466." Eff. I 90-91.


Add: "History of Women in Latin America (3) II (Identical with Hist. 569) May be convened with 469." Eff. I 90-91.


Add: "Advanced Studies in Latin American History (3) [Rpt.] I II (Identical with Hist.595b, which is home)". Eff. I 90-91.

Add: "Comparative Politics (3) [Rpt./2] I II (Identical with Pol. 596d)". Eff. I 90-91.

Add: "Latin-American Press (3) I II (Identical with Jour. 596h, which is home)". Eff. I 90-91.
596i. Add: "Colonial Latin America (3) [Rpt.] I II (Identical with Hist. 596i, which is home)." Eff. I 90-91.

596j. Add: "Latin America: Modern Period (3) [Rpt.] I II (Identical with Hist. 596j, which is home)." Eff. I 90-91.


696b. Add: Seminar: "Spanish Literature (3) I II (Identical with Span. 696b, which is home)." Eff. I 90-91.

696c. Add: Seminar: "Spanish American Literature (3) I II (Identical with Span. 696c, which is home)." Eff. I 90-91.

696i. Add: Seminar: "Brazilian Literature: 20th Century (3) I II (Identical with Port. 696i, which is home)." Eff. I 90-91.

LAW (LAW)


611. NEW COURSE: "Employment Law (3) I II". Eff. 89-90.

648. Change number of units to "(2)". Eff. I 89-90.

679. Change number of units to "(1)". Eff. I 89-90.

LIBRARY SCIENCE (LIS)


571. Course revised. New listing reads: "Information Sources and Services in the Social Sciences (3) I II Information resources and services in history, geography, political science, sociology, anthropology, psychology, education, economics and business." Eff. I 89-90.

572. NEW COURSE: "Information Sources and Services in the Humanities (3) I II Information resources and services in art and architecture, music, language and literature, theatre and dance, philosophy and religion." Eff. I 89-90.

582. Course revised. New listing reads: "Management of Nonprint Resources (3) I Examines management of nonprint resources and their role in providing informational, recreational and educational services." Eff. I 89-90.

693b. Change concurrent registration to "CR, 507 or 550." Eff. II 89-90.

693c. Change concurrent registration to "CR, 507 or 530." Eff. II 89-90.

693e. Change concurrent registration to "CR, 507 or 540." Eff. II 89-90.
NEW COURSE: Colloquium: "Children's and Youth Services and Literature (2-3) [Rpt.] I Open to majors only." Eff. I 89-90.

LINGUISTICS (LING)

200. Course number change to "315". Eff. II 89-90.


310. NEW COURSE: "Morphology and Morpho-syntactic Properties of the World's Languages (3) II Introduces the student to the commonly shared features of word building rules in the world's languages and provides an introduction to the theoretical issues involved in languages for which the word/sentence distinction does not exist. Students will have many problem sets containing data from dozens of languages. P, 101." Eff. II 89-90.

315. Course number change from "200". Eff. II 89-90.

403. Change course description to read: "Introduction to fundamental issues in the theory of syntax. Familiarizes the student with the essentials of (1) government binding theory and its precursors, and (2) standard categorial grammar and its relatives." Eff. I 89-90.

410. Change second sentence of description to read: "Topics include distinctive feature theory, syllable theory, the core skeleton, rule formulation and rule interactions." Eff. I 89.

411a. Course number change to "411". Change Or.S. crosslisting to read "(Identical with Jpn. 411)". Eff. I 90-91.

411b. Course number change to "412". Change Or.S. crosslisting to read "(Identical with Jpn. 412)". Eff. I 90-91.

420a. Course number change to 419. Change Or.S. crosslisting to read "(Identical with Chn. 419)". Eff. I 90-91.

420b. Course number change to 420. Change Or.S. crosslisting to read "(Identical with Chn. 420)". Eff. I 90-91.

422. In description, change phrase "sentence meanings" to singular "sentence meaning". Eff. I 89-90.


495a. See "595a" below.

503. Same change as for 403 above.


510. Same change as for 410 above.

58
511a. Course number change to "511". Change Or.S. crosslisting to read *(Identical with Jpn. 511)*. Eff. I 90-91.

511b. Course number change to "512". Change Or.S. crosslisting to read *(Identical with Jpn. 512)*. Eff. I 90-91.

515. Change course description to read: "Study of the acoustic and articulatory properties of sounds and patterns of sounds that occur in human language. Focus on the significance of the properties of sounds for phonological theory, in particular, distinctive feature theory. Role of psycho-acoustic studies as a source of evidence for phonological theory." Eff. I 89-90.

520a. Course number change to 519. Change Or.S. crosslisting to read *(Identical with Chn. 519)*. Eff. I 90-91.

520b. Course number change to 520. Change Or.S. crosslisting to read *(Identical with Chn. 520)*. Eff. I 90-91.

522. Same change as for 422 above.


551. Change course number to "451". Eff. II 89-90

595a. Course expansion to "495a/595a". Eff. II 89-90.

696h. NEW COURSE: Seminar: "Topics in Morphology (3) [Rpt./2] I II S". Eff. I 90-90.

697a. Change number of units to "(3)". Eff. I 89-90.

MANAGEMENT & POLICY (MAP)


471. At end of description but before prerequisite, add: "An honors section of this course will be available for entrepreneurship program students." Eff. II 89-90.

480. Course number change to "480H". (Home department is Marketing.) Eff. II 89-90.


483. Course number change to "483H". Eff. II 89-90.


484. Course number change to "484H". Eff. II 89-90.

484. Correction to Curriculum Bulletin, Vol. 13, No. 7: Cancel change to Honors course.

535. Course expansion to "435/535". Graduate-level requirements include additional research and writing on more complex issues. Eff. I 90-91.

MANAGEMENT INFORMATION SYSTEMS (MIS)


450. Delete crosslisting: "(Identical with Russ. 450)". Add crosslisting: "(Identical with R.S.S. 450)". Eff. I 89-90. (Note: Do not add crosslist on 500 level.)

453. NEW COURSE: "Software Systems for Business Applications (3) II The C programming language and Unix operating systems environment, emphasizing software development techniques. Open to majors only. P, 301. May be convened with 553." Eff. II 89-90.

511. Correction to Curriculum Bulletin, Vol. 12, No. 12: Effective date for this change should have been I 88-89.

553. NEW COURSE: "Software Systems for Business Applications (3) II For a description of course topics, see 453. Graduate-level requirements include the production of several medium-sized programs, with emphasis on the program life-cycle, maintainability, and life-cost. Open to majors only. May be convened with 453." Eff. II 89-90.


MARKETING (MKGT)

480. Course number change to "480H". Eff. II 89-90.


483. Course number change to "483H". (Home department is Management and Policy.) Eff. II 89-90.


572. Correction to Curriculum Bulletin, Vol. 12, No. 12: Cancel change of title. [Note: Retain previous change which renumbered "572" to "672" and changed the title to "Survey and Quantification Marketing Research Methods".]

672. Retain course title as "Survey and Quantification Marketing Research Methods".

MATERIALS SCIENCE AND ENGINEERING (MSE)


Correction to Curriculum Bulletin, Vol. 12, No. 14: Course was erroneously included in CB1214; it was deleted in CB1213.

Add "GC" Eff. II 88-89.
Delete "GC". Add: "May be convened with 524." Eff. I 89-90.

Course expansion to "424/524". Graduate-level requirements include a term paper. Eff. II 89-90.

Change number of units to "(2-2)". Change class structure to: "442a: 1R, 3L. 442b: 1R, 3L." Eff. I 90-91.

Correction to Curriculum Bulletin, Vol. 13, No. 4: Change effective date to II 89-90.

See "560" below.

Course number changed from "490". Eff. I 89-90.

Course number changed from "491". Eff. I 89-90.
Course expansion to "486/586". Graduate-level requirements include an additional term paper. Eff. I 89-90.

Correction: Add "GC". Eff. I 88-89.
Drop "GC". Eff. II 88-89.

Change course number to "485". Eff. I 89-90.

Change course number to "486". Eff. I 89-90.


Add: "Physics and Chemistry of Ceramic Materials (3) II For a description of course topics, see 424. Graduate-level requirements include an extra term paper. P, 331, or Chem. 480b, or CR. May be convened with 424." Eff. I 89-90.

See "424" above.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Course number change should have read "640". (Title is "Mechanical Properties of Materials").) Eff. I 89-90.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Course number change should have read "652". (Title is "Statistical Thermodynamics in Materials Science").) Eff. I 89-90.

Course number changed from "640". Eff. I 90-91.


Course expansion to "460/560". Change description to read: "Introduction to physical properties of polymers. Microstructure, crystallization, rheology, relaxation and mechanical properties." Change prerequisites to "P, 331R or 360R." Graduate-level requirements include a term paper. Eff. II 89-90.

Course revised. New listing reads: "Kinetic Processes in Materials Science (3) II Survey of the kinetics of fundamental processes of importance in materials science. Topics include chemical reaction rate theory of activated processes, diffusion and diffusion controlled processes, kinetics of nucleation and growth, JMA theory, precipitation kinetics, rates of gas-solid

586. See "486" above.

602. NEW COURSE: "Modern Methods in Materials Science (2) [Rpt./4 units] II Discussion of several recent theoretical methods or experimental techniques which have been applied to the study of materials. Topics will vary from year to year depending upon the interests of the instructor and graduate students." Eff. II 89-90.

634. DELETE: "Electronic, Magnetic and Optical Materials (3)". Eff. II 89-90.

640. Change course number to "553". Eff. I 90-91.

MATHMATICS (MATH)

Page 188 of the General Catalog: (1) Change double-daggered note that appears after 117S to read: "Credit will not be given for this course if the student has credit in any calculus course: these students will be dropped by the Registrar's Office. Students with unusual circumstances can petition the department for exemption from this rule." (2) Move this note to position following 125a. (3) Add double-dagger symbol to the following courses: 118, 120, 123, 124, 125a. Eff. II 89-90.


116R. Note revised. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

116S. Note revised. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

117R. Note revised. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

117S. Note revised. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

118. Add double dagger symbol. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

120. Add double dagger symbol. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

123. Add double dagger symbol. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

124. Add double dagger symbol. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

125a. Add double dagger symbol. See changes for Page 188 above. [RDP: This note should be included in the Schedule of Classes.]

244. Add: "Foundations of Computing (3) II (Identical with C.Sc. 244)". Eff. II 89-90.

244. Change course number to "344". Eff. I 90-91.

344. Course number changed from "244". Eff. I 90-91.
373. Course number changed from "473". Course revised. New listing reads: "Automata, Grammars and Languages (3) II (Identical with Math. 373)". Eff. II 89-90.

396a. Correction to Curriculum Bulletin, Vol. 12, No. 11: Effective date for this deletion should have been Summer 1989.


473. Change course number to "373". Course revised. Eff. II 89-90. [For new listing, see "373"].

515a-515b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Course number change should have read "532a-532b". Eff. I 89-90.

518. Change to "[Rpt./36 units]". Eff. II 85-86.

519. Change to "[Rpt./36 units]". Eff. II 84-85.


527a-527b. Course number changed from "527". Eff. I 89-90.

529. Change to "[Rpt./36 units]". Eff. II 85-86.

538. Change to "[Rpt./36 units]". Eff. II 85-86.

573. Delete semester offering "II". Delete "May be convened with 473." Eff. II 89-90.

577. Change to "[Rpt./36 units]". Eff. II 85-86.

588. Change to "[Rpt./36 units]". Eff. II 85-86.

595a. NEW COURSE: Colloquium: "Math Instruction (1-3) [Rpt./12 units] I II". Eff. I 89-90.

697a. NEW COURSE: "Workshop: Problems in Computational Science (6) I II". Eff. I 89-90. [Note: This is a two-semester course in which students receive a "K" grade at the end of the first semester.]


MEDIA ARTS (MAR)


303. Course number changed from "393a". New listing reads: "Professional Practices (1) I II S Prepares students to meet the professional expectations of media work. Job search strategies (resume writing and interviewing) and professional concepts are studied. P, 100, 101, 105, 200, 214 or 215, and one Writing-Emphasis Course." Eff. Summer 1990.


350. NEW COURSE: "Professional Media Instruction (3) I The interview process and specific interview formats, including survey research, journalistic, and panel formats. Interviewer performance is stressed; practice provided." Eff. I 89-90.

NEW COURSE: "Exhibition Management (3) I II Programming strategies, exhibition techniques, marketing approaches, and management models for film and video series, guest artist presentations, video installations, conferences, and festivals." Eff. I 89-90.

Change course description to read: "Advanced work in the writing of news and public affairs programs for radio, television, cable and other electronic media with emphasis on the public affairs program and documentary formats." Change prerequisites to "P, 205, 280." Add "Writing-Emphasis Course. P, satisfaction of the upper-division writing-proficiency requirement (see "Writing-Emphasis Courses" in the Academic Guidelines section of this catalog)." Eff. I 90-91.


Course number change to "303". Course revised. Eff. Summer 1990. [For new listing, see "303"].

Add: "Writing for the Arts (3) I II (Identical with Dram. 397a, which is home)". Eff. I 89-90.

Course transferred from Theatre Arts to Media Arts and course number simultaneously changed from "474a". Course revised. New listing reads: "Film Theory and Criticism (3) I Advanced studies in current cinematic theory and criticism. Historical examination of major film theories, including formalism, realism, classical Hollywood, structuralism, semiotics, and psychanalytic theories. May be convened with 524." Eff. I 90-91.


NEW COURSE: "Methods of Media History (3) I 1989-90 Analysis of methods used in film and broadcast histories; theories of media history, empirical evidence; approaches to placing a media text within its industrial and social context. P, 3 units upper-division MAr. course work and junior standing. May be convened with 564." Eff. I 89-90.

Delete listing ("Screen Acting Techniques (3)"). Eff. II 89-90.


Course transferred from Drama to Media Arts. Eff. Summer 1990.

Course transferred from Theatre Arts to Media Arts and course number simultaneously changed from "574a". Course revised. New listing reads: "Film Theory and Criticism (3) I For a description of course topics, see 424. Graduate-level requirements include additional readings and an in-depth research paper on issues in film theory. May be convened with 424." Eff. I 90-91.
Course transferred from Theatre Arts to Media Arts and course number simultaneously changed from "574b". Course revised. New listing reads: "Current Issues in Media Theory (3) I Advanced study of major concepts, issues, and movements in contemporary film theory: psychoanalysis, semiotics, marxism, deconstruction, postmodernism." Eff. I 90-91.

NEW COURSE: "Methods of Media History (3) I 1989-90 For a description of course topics, see 464. Graduate-level requirements include additional readings; longer papers with more depth of analysis. P, 3 units upper-division MAr course work. May be convened with 464." Eff. I 89-90.

MEDICINE (MED/ANES/FCM/IMED/NEUR/OBG/OPH/PAT/PED/PSYI/RONC/RADI/SURG)

Interdepartmental (MED)

Correction to General Catalog: Add *(Identical with Neur. 495y)*. Retain all other crosslistings. [Note: Crosslisting appears correctly under Neurology.]

Correction to General Catalog: Add *(Identical with Neur. 595y)*. Retain all other crosslistings. [Note: Crosslisting appears correctly under Neurology.]


Family & Community Medicine (FCM)


Correction to General Catalog, 1989-91. Delete listing under F.C.M. It was incorrectly entered under Family & Community Medicine.

Change title to "International Health in the Third World". Eff. I 89-90.

Add semester offering "S". Eff. II 89-90.

Change number of units to *(2)*. Eff. II 88-89.

Change title to "International Nutrition". Change number of units to *(2)*. Eff. I 89-90.

Change number of units to *(2-3)*. Eff. II 89-90.


Change title to "Community Geriatrics". Eff. I 89-90.


Change title to "International Health". Eff. II 89-90.

Change number of units to *(3-12)*. Eff. II 88-89.

Change title to "International Health in the Third World". Eff. I 89-90.

DELETE: "Wholistic Health (2)". Eff. II 88-89.

NEW COURSE: Seminar: "Leadership Development (2)". Eff. II 89-90.
Change number of units to "(2)". Eff. II 88-89.

Change title to "International Nutrition". Change number of units to "(2)". Eff. I 89-90.

Change number of units to "(2-3)". Eff. II 89-90.


Internal Medicine (IMED)

Change title to "Coronary Care Unit -- Acting Internship". Eff. II 89-90.

Change title to "General Medicine -- Acting Internship". Eff. II 89-90.


Neurology (NEUR)


Obstetrics & Gynecology (OBG)


Pediatrics (PED)


Psychiatry (PSYI)


Radiation Oncology (RONC)

Add: Subspecialty: "Cancer Prevention and Control (3-15) II (Identical with F.C.M. 515i, which is home)". Eff. II 88-89.


Add: Subspecialty: "Cancer Prevention and Control (3-15) II (Identical with F.C.M. 815i, which is home)". Eff. II 88-89.

Surgery (SURG)


MEXICAN AMERICAN STUDIES (MAS)

203. Course number changed from "213". Eff. I 89-90.

213. Change course number to "203". Eff. I 89-90.


373. Correction to Curriculum Bulletin, Vol. 11, No. 17: Delete listing. Listing should have been deleted when course in home department of Spanish was deleted.

453. Course expansion to "453a-453b". Course revised. Eff. I 90-91. [For new listing, see 453a-453b.]


569m. Correction to General Catalog: Course number should have been "596m".

596m. Correction to General Catalog: Course number "596" should have been "596m".

MICROBIOLOGY & IMMUNOLOGY (MICR)

317L. Course number changed from "417". Course revised. New listing reads: "Laboratory Techniques in General Microbiology and Microbial Physiology (2) II Instrumentation and technology in general microbiology and microbial physiology. P, 317R or CR". Eff. I 89-90.

417. Change course number to "317L". Course revised. [For new listing, see "317L".] Eff. I 89-90.

450. Change course number to "450R" and "450L". Course revised. Eff II 89-90. [For new listings, see "450R" and "450L".]

450L. Course number changed from "450". Course revised. New listing reads: "Medical Mycology Laboratory (2) II Laboratory experiments dealing with isolation and identification of fungi of medical importance. 6L. P, 450R or CR. (Identical with V.Sc. 450L). May be convened with 550L." Eff. II 89-90.

450R. Course number changed from "450". Course revised. New listing reads: "Medical Mycology (2) II The isolation and identification of fungi of medical importance. P, 205. (Identical with V.Sc. 450R) May be convened with 550R". Eff. II 89-90.

473. Change number of units to "(4)". Eff. II 89-90.


550. Change course number to "550R" and "550L". Course revised. Eff. II 89-90. [For new listings, see "550R" and "550L".]

550L. Course number changed from "550". Course revised. New listing reads: "Medical Mycology Laboratory (2) II For a description of course topics, see 450L. Graduate-level requirements include an average of one hour per week working in the dermatophyte laboratory. P, 205. (Identical with V.Sc. 550L) May be convened with 450L." Eff. II 89-90.
Course number changed from "550". Course revised. New listing reads: "Medical Mycology (2) II For a description of course topics, see 450R. Graduate-level requirements include additional experience in dermatophyte identification. P, 205. (Identical with V.Sc. 550R) May be convened with 450R." Eff II 89-90.


Change number of units to "(4)". Eff. II 89-90.

Course number changed from "596f". Change alternate year to "1991-92". Eff. II 90-91.

Change course number to "589". [For other changes, see "589".] Eff. II 90-91.

MILITARY SCIENCE, NAVAL SCIENCE AND MILITARY AEROSPACE STUDIES (MLS/NS/MLA)

Military Science (MLS)

Course number changed from "100a". Title changed to "Introduction to Leadership". Add semester offering "I" Eff. I 90-91.

Change course number to "100". Title changed to "Introduction to Leadership". Add semester offering "I". Eff. I 90-91.

Change course number to "101". Title changed to "Leadership Principles". Add semester offering "II". Eff. I 90-91.

Course number changed from "100b" Title changed to "Leadership Principles". Add semester offering "II". Eff. I 90-91.

NEW COURSE: "Physical Fitness Training (1) [Rpt./2 units] III Activity course based on the Army physical fitness training program. 3L" Eff. II 89-90.

MINING & GEOLOGICAL ENGINEERING (GEN/MNE/MNEC)

Geological Engineering (GEN)


DELETE: "Introduction to Geological Engineering (3)". Eff. I 89-90.

Course number change to "426a-426b". Change number of units to "(1-1)". Eff. I 89-90.

Course number changed to "526a-526b". Change number of units to "(1-1)". Eff. I 89-90.


Mining Engineering (MNE)

Course revised. Crosslisting added. New listing reads: "Mineral Resources, Geotechnology and the Environment (2-3) I II The history and recent advances in locating and extracting earth's mineral resources; the principles
of developing and managing earth's resources and hazards; environmental
cconcerns such as mine and nuclear waste disposal. 2R, 3L. (Identical with
G.En. 120)”. Eff. I 89-90.

401R.  
Course transferred to Mn.E. from M.S.E. Course expansion and number
change to "411/511". Course revised. Eff. I 89-90. [For new listings, see
"411" and "511".]

411.  
Course revised. New listing reads: "Mineral Processing (3) I Physical and
chemical unit operations used to separate and recover the economic
minerals and metals from their ores. The modern scientific and engineering
background for the operations are presented as well as economic aspects.
Includes field trips to major mining operations in Tucson area. (Identical
with M.S.E. 411) May be convened with 511." Eff. I 89-90.

426.  
Course number change to "426a-426b". Change number of units
"(1-1)". Eff. I 89-90.

511.  
Add: "Mineral Processing (3) I For a description of course topics, see 411.
Graduate-level requirements include an advanced research project.
(Identical with M.S.E. 511) May be convened with 411. Eff. I 89-90.

526.  
Course number changed to "526a-526b". Change number of units to "(1-1)".
Add before "(Identical": "526a is not prerequisite to 526b." Eff. I 89-90.

580.  
NEW COURSE: "The Mechanics of Fracture in Rock and Other Brittle
Materials (3) II Fracture mechanics theory applied to the deformation
and failure of rock; numerical techniques; micromechanical damage models;
flow through fractures; the mechanics of faulting and earthquake rupture.
P, advanced course in engineering mechanics or geomechanics (E.M. 417,

MOLECULAR & CELLULAR BIOLOGY (MCB)

416.  
Correction to Curriculum Bulletin, Vol. 12, No. 13: Effective date for
deletion moved to Summer 1989.

437.  

463a-463b.  

464a-464b.  

466.  
Add: "Physiology Laboratory (2) II (Identical with Ecol. 466) May be
convened with 566." Eff. II 89-90.

468.  
Eff. I 89-90.

471.  
Add: "Human Embryology (3) II (Identical with Anat. 471) May be
convened with 571." Eff. II 89-90.

473.  
Change number of units to "(4)". Change class structure to "2R, 6L". Eff. II
89-90.

563.  
Add crosslisting: "(Identical with Pl.S. 563)". (Retain former crosslist with

566.  
Add: "Physiology Laboratory (2) II (Identical with Ecol. 566) May be
convened with 466." Eff. II 89-90.

571.  
Add: "Human Embryology (3) II (Identical with Anat. 571) May be
convened with 471." Eff. II 89-90.

69
573. Change number of units to "(4)". Eff. II 89-90.
574. Add: "Advances in Mammalian Genetics (2) [Rpt./1] I 1990-91 (Identical with Bioc. 574)". Eff. I 90-91.
589. Course number changed from "596f". Change alternate year to "1991-92". Eff. II 90-91.
596f. Change course number to "589". [For other changes, see "589"]. Eff. II 90-91.

MUSIC (MUS/MUSI)
Page 202 of the General Catalog: Insert the following paragraph in the second column after the paragraph beginning "Degree Programs" and before the paragraph beginning "The teaching minor":

The music minor for B.A., B.F.A., or B.S. degree: A minimum of 20 units, or more (as specified by the major area), to include: Performance area—a minimum of 6 units, including at least 2 units of Musi. 181 or above and at least 2 units of Mus. 200 (400); Theory area—a minimum of two courses selected from Mus. 100, 120a, 120b, or (when available) Theory for the General Student; Literature area—a minimum of two courses selected from Mus. 130a, 130b, 330a, 330b, 331 or 434. Additional courses may be selected from other School of Music offerings and Phys. 107, but excluding Mus. 101, 107, 108 and 360. A music minor advisor in the School of Music should be contacted for further information or assistance with course selection." Eff. Summer 1990.

200m. Change title to "Choraliers". Eff. II 89-90.
397a. Add: "Writing for the Arts (3) I II (Identical with Dram. 397a, which is home)". Eff. I 89-90.
400m. Change title to "Choraliers". Eff. II 89-90.
430a-430b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Course number change should have read "522a-522b". Eff. I 89-90.
431a-431b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Course number change should have read "523a-523b". Eff. I 89-90.
441a. Change course number to "441". Course revised. Eff. I 90-91. [For new listing, see "441"].
441b. Change course number to "442". Course revised. Eff. I 90-91. [For new listing, see "442".]
Course number changed from "441b". Course revised. New listing reads: "Electro-Acoustic Studio Resources (3) II Advanced techniques: synthesis, processing, synthesizer programming, sampling, MIDI, computer-assisted techniques, sequencing and notation. May be convened with 542." Eff. I 90-91.

Change title to "Choraliers". Eff. II 89-90.


Change description to "For a description of course topics, see 441. Graduate-level requirements include a major research paper and special class presentation. May be convened with 441." Eff. I 90-91.


Change description to "For a description of course topics, see 442. Graduate-level requirements include a major research paper and special class presentation. May be convened with 442." Eff. I 90-91.

Change title to "Advanced Studies in Music Teaching". Change number of units to "(1-3)". Change semester offerings to "I II S". Eff. Summer 1989.


NEW COURSE: "Psychology of Music (3) II S Music perception, physiological and psychological responses to music, basic acoustics, music pedagogy, and evaluation/measurement of music behaviors." Eff. II 89-90.

NEW COURSE: Seminar: "Composition (2) [Rpt./8 units] II Open to majors only." Eff. II 88-89.

NEUROSCIENCE (NRSC)


NURSING (NURS)

DELETE: "Nursing Skills in Assessment (3)". Eff. I 89-90.

DELETE: "Women and Health (3)". Eff. I 89-90.

DELETE: "Emergency Care of the School Age Child (2)". Eff. I 89-90.

NEW COURSE: "Health Assessment of the School Age Child (3) S Health maintenance, health promotion, physical and developmental assessment,
screening, management and referral of the school age child. Open to majors only. P, 381, or consult college before enrolling." Eff. Summer 1990.

NEW COURSE: "Nursing Care of the Child with a Handicap or Chronic Illness (3) S Overview of congenital and acquired handicaps or chronic conditions in school age children. Assessment and management in the school setting of these children and their families. Open to majors only. P, 381, or consult college before enrolling." Eff. Summer 1990.

NEW COURSE: "School Nursing Practice (3) I Analysis and application of nursing in school systems. Program development and evaluation, health curriculum development, and principles of epidemiology for identification of high risk groups. Open to majors only. P, 381, or consult college before enrolling." Eff. I 90-91.

Course expansion to "483/583". Graduate-level requirements include an additional paper. Eff. Presession 1990.

Course number changed from "631". Title changed to "Conceptual Models". Eff. II 89-90.

Course number changed from "630". Eff. II 89-90.

See "483" above.


NEW COURSE: "Health Assessment (3) I Focuses on synthesis of physical and psychosocial data by using current research and theoretical models in geriatric nursing. Emphasizes physiology, physical, cultural and psychosocial assessment. Open to majors only. P, 586." Eff. I 90-91.


NEW COURSE: "Geriatric Nurse Practitioner Role Development (3) II Focuses on concepts and skills needed to manage therapeutically the common acute and chronic health problems prevalent in older adults. Emphasizes clinical decision-making in abnormal aging. Open to majors only. P, 625." Eff. II 89-90.

Change course number to "530". Eff. II 89-90.

Change course number to "504". Change title to "Conceptual Models". Eff. II 89-90.

Change title to "Evaluation Research". Eff. II 89-90.

Change title to "Nursing Metatheory". Eff. II 89-90.

Change course number to "730". Eff. II 89-90.

Course number changed from "775". Delete alternate year. Eff. Summer 1990.

Course number changed from "730". Eff. II 89-90.

Course number changed from "771". Eff. II 89-90.

Change course number to "731". Eff. II 89-90.

Change course number to "725". Delete alternate year. Eff. Summer 1990.
NUTRITION & FOOD SCIENCE (NFS)

102H. Change number of units to "(1)". Delete "[Rpt./1]". Change last sentence of description to: "This honors course is taken concurrently with the honors section of 101. Students earn one credit for additional seminar time and projects done with faculty outside of class." Eff. I 89-90.

430. Correction to Curriculum Bulletin, Vol. 12, No. 14: This crosslisting was erroneously included in CB1214; it was deleted in CB1211.


466. Correction to Curriculum Bulletin, Vol. 12, No. 14: Course number change should have read "566". Change alternate year to "1989-90".


572. NEW COURSE: "Food Laws, Standards, and Regulations (2) II 1990-91 Laws, standards, and regulations governing food marketing in the United States; emphasis on food safety, inspection procedures, additives, nutritional labeling and regulatory agencies. P, 6 units from the following: 468, 470; Mktg. 470." Eff. II 89-90.

596n. Change number of units to "(2-3)". Change title to "International Nutrition". Eff. II 89-90.


OPTICAL SCIENCES (OPTI)

532. Correction to the General Catalog: Title should read: "Computer Vision". Eff. II 88-89.


ORIENTAL STUDIES (ORS)


100b. Change number and prefix to Chn. 102. Eff. I 90-91.


104a-104b. Change prefix to N.E.S. 104a-104b. Eff. I 90-91.


140. Change prefix to N.E.S. 140. Eff. I 90-91.

345. NEW COURSE: "Hindu Religious Activities (3) [Rpt./6 units] I II Practical Hinduism through worships, rituals, and ceremonies based on Vedic, Puranic and folk traditions. (Identical with Reli. 345)". Eff. II 89-90.
396H. Change to E.A.S. 396H (home) and N.E.S. 396H (home). (Note: Not crosslisted; two courses generated from one.) Eff. I 90-91.
402a-402b. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "402a-402b (Delete GC)". Eff. I 89-90.
NEW COURSE: *Intensive Japanese (5-5-5-5-5) I II


410a-410b-410c-410d. Course expansion from "410a-410b". Course revised. New listing reads: "Advanced Modern Chinese (3-3-3-3) 410a: Readings in Chinese Social Science Texts. 410b [Rpt./1]: Chinese Composition. 410c: Readings in Modern Chinese Literature. 410d [Rpt./1]: Chinese Conversation. P, 400b. The segments of this course may be taken simultaneously or in any combination. May be convened with 510a-510b-510c-510d." Eff. I 90-91.

410a-410b. Course expansion to "410a-410b-410c-410d". Course revised. Eff. I 90-91. [For new listing, see "410a-410b-410c-410d*"]


412a. Change number and prefix to Jpn. 415. Change number of units to "(3)". Eff. I 90-91.

412b. Change number and prefix to Jpn. 416. Change number of units to "(3)". Eff. I 90-91.


423. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "423 (Delete GC)". Eff. I 89-90.


452. Change title to "Hindu Literature". Change first line of description to read: "Introduces major literary works with ancient Sanskrit genres." Eff. I 90-91.
475a-475b. Course expansion to "475a-b/575a-b". Eff. I 89-90.
475c-475d-475e. Course expansion to "475c-475d-475e/575c-575d-575e". Eff. II 89-90.
475a-475b-475c-475d-475e. Transfer course from History to Oriental Studies. Retain crosslisting with History. Eff. I 90-91
484a-484b. Change prefix to N.E.S. 484a-484b. Eff. I 90-91.
487. Change prefix to N.E.S. 487. (Title is "Women in South Asia"). Eff. I 90-91.
495f. Change prefix to N.E.S. 495f (home) and Ju.S. 495f (crosslisting). Eff. I 90-91.
495g. Change prefix to Ju.S. 495g. Eff. I 90-91.
495o. Change prefix to N.E.S. 495o. Eff. I 90-91.
495r. Change prefix to Chn. 495r. Eff. I 90-91.
495z. Change prefix to N.E.S. 495z. Eff. I 90-91.
496a. Change number and prefix to E.A.S. 496a (home, same title) and N.E.S. 496b (home, new title "Special Topics in Near Eastern Studies (3) [Rpt./4]"). [Two courses generated from one -- not crosslisted.] Eff. I 90-91.
496m. Change prefix to Jpn. 496m. Eff. I 90-91.
497d. NEW COURSE: Workshop: "Japanese Language II (1) II Offered only at Soka University in Tokyo, Japan. Course is taught in Japanese. P, 102a-102b, 497a." Eff. II 89-90.
503b. Change prefix to N.E.S. 503b and E.A.S. 503b. (CPLT is home; two crosslists generated from one.) Eff. I 90-91.
510a-510b-510c-510d. Course expansion from "510a-510b". Course revised. New listing reads: "Advanced Modern Chinese (3-3-3-3) For a description of course topics, see 410a-410b-410c-410d. Graduate-level requirements include more translations from Chinese to English and additional reading. P, 400b. The segments of this course may be taken simultaneously or in any combination. May be convened with 410a-410b-410c-410d." Eff. I 90-91.
510a-510b. Course expansion to "510a-510b-510c-510d". Course revised. Eff. I 90-91. [For new listing, see "510a-510b-510c-510d".]
525a-525b. Change prefix to N.E.S. 525a-525b. Eff. I 90-91.
526. Change prefix to N.E.S. 526.
537a-537b. Change prefix to N.E.S. 537a-537b. Eff. I 90-91.
552. Change graduate-level requirements to "submission of a graduate paper or presentation on a subject approved by the instructor." Eff. I 89-90.
574a-574b-574c. Change prefix to Jpn. 574a-574b-574c. Eff. I 90-91.
575a-575b. See "475a-475b" above.
575c-575d-575e. See "475c-475d-475e" above.
582. Change prefix to Chn. 582.
584a-584b. Change prefix to N.E.S. 584a-584b. Eff. I 90-91.
595f. Change prefix to N.E.S. 595f (home) and Ju.S. 595f (crosslisting). Eff. I 90-91.
595r. Change title to "Change title to People's Republic of China". Delete semester offering "II". Delete crosslisting: "(Identical with Hist. 595r)". Eff. II 89-90.
596g. Change prefix to Chn. 596g. Eff. I 90-91.
596m. Change prefix to N.E.S. 596m. Eff. I 90-91.
596r. Change prefix to Jpn. 596r. Eff. I 90-91.

PHARMACEUTICAL SCIENCES (PHSC)


PHARMACOLOGY (PHCL) -- College of Medicine

605a-605b. Add: "Human Neuroscience (3-3) (Identical with Anat. 605a-605b)". Eff. I 89-90.

620. NEW COURSE: "Principles of Pharmacology (3) I Basic principles of the actions of drugs and of intercellular communication; drug-receptor theory; principles of laboratory investigation in pharmacology and toxicology; historical and philosophical foundations of pharmacology and toxicology. (Identical with Pcol. 620 and Tox. 620)". Eff. I 90-91.


PHARMACOLOGY & TOXICOLOGY (PCOL/TOX) -- College of Pharmacy

Pharmacology (PCOL)


Toxicology (TOX)


466. Add: "Physiology Laboratory (2) II (Identical with Ecol. 466) May be convened with 566." Eff. II 89-90.

566. Add: "Physiology Laboratory (2) II (Identical with Ecol. 566) May be convened with 466." Eff. II 89-90.


PHARMACY PRACTICE (PHPR)

101. NEW COURSE: "Drug Use in Society (1) I II Provides an understanding of drugs used/abused in society; promotes appropriate attitudes towards drug use; identifies treatment resources available for persons with drug problems. Open to nonmajors only." Eff. I 90-91.


583. See "483" above.

PHILOSOPHY (PHIL)

213. NEW COURSE: "Contemporary Moral Problems (3) Issues and arguments arising in contemporary moral debates. Topics will vary but are likely to include abortion, mercy killing, the nature of economic justice, racism, sexism, pornography, animal rights, the death penalty, terrorism, the morality of war, and nuclear deterrence." Eff. II 88-89.

412. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have been included for "412/512" as crosslisting with Greek was added in CB1211.
NEW COURSE: "Philosophy and Artificial Intelligence (3)
Interdisciplinary problems lying at the interface of philosophy and artificial intelligence. May be convened with 554." Eff. II 89-90.

NEW COURSE: "Ancient Philosophy (3-3) [Rpt.] 472a: A philosophical introduction to the major works of Plato. 472b: A philosophical introduction to the major works of Aristotle. (Identical with Clas. 472a-472b) May be convened with 572a-572b." Eff. II 89-90.

NEW COURSE: "Philosophy and Artificial Intelligence (3) For a description of course topics, see 454. Graduate-level requirements include an in-depth research paper on a central theme or topic of the course. May be convened with 454." Eff. II 89-90.

NEW COURSE: "Ancient Philosophy (3-3) [Rpt.] For a description of course topics, see 472a-472b. Graduate-level requirements include an in-depth research paper on a central theme or topic of the course. (Identical with Clas. 572a-572b) May be convened with 472a-472b." Eff. II 89-90.

PHYSICS (PHYS)

DELETE: "Introductory Physics with Calculus (3)". Eff. I 89-90.

DELETE: "Introductory Physics with Calculus (3)". Eff. II 89-90.

After prerequisite symbol, "P", add "or CR". Eff. I 89-90.

Delete listing ("Satellite and Planetary Perturbation Theory (3)"). Eff. II 88-89. [Note: This course number was subsequently re-occupied by "Nuclear Physics (3)". Eff. I 89-90.]


Add: Workshop: "Problems in Computational Science (6) I II (Identical with Math. 697a, which is home)". Eff. I 90-91. [Note: This is a two semester course in which students receive a "K" grade at the end of the first semester.]

PHYSIOLOGY (PSIO)

Add: "Physiology Laboratory (2) II (Identical with Ecol. 466) May be convened with 566." Eff. II 89-90.

Add: "Physiology Laboratory (2) II (Identical with Ecol. 566) May be convened with 466." Eff. II 89-90.

Change title to "Mathematical Techniques in Physiology". Eff. I 89-90.

Change course number to "605a-605b". Course revised. Eff. I 89-90. [For new listing, see "605a-605b".]

Course number changed from "605". New listing reads: "Human Neuroscience (3-3) (Identical with Anat. 605a-605b)". Eff. I 89-90.


Change title to "Mathematical Techniques in Physiology". Eff. I 89-90.
PLANETARY SCIENCES (PTYS)

505a-505b. Course expansion to "505a-505b-505c". Change number of units to "(3-3-3)". New description reads: "Planetary and interplanetary fluids and plasmas, structure and behavior of planetary matter, and transport processes. Applications of geophysics, fluid mechanics, and statistical physics to planetary interiors, surfaces, and atmospheres; rheology of planets, atomic and molecular spectroscopy, radiative transfer. Principles of celestial mechanics." Retain prerequisite. Eff. II 89-90.

505c. See course expansion from "505a-505b" above.


PLANNING (PLNG)


PLANT SCIENCES (PLS)


234. Course number changed from "234b". Course revised. New listing reads: "Plant Materials (3) II (Identical with L.Ar. 234)". Eff. I 91-92.


234b. Change course number to "234". Course revised. Eff. I 91-92. [For new listing, see "234"]


POLITICAL SCIENCE (POL)

270. NEW COURSE: "Colonization and Native People (3) I II An overview of various colonial models and definitions. Includes individual studies of the relations between the Ainu and Japan, American Indians and the United

NEW COURSE: "Politics and the Health Care System (3) I II Analysis of social, economic, political, ethical and legal problems in the practice, administration and allocation of health care services, and discussion of proposals for alternative arrangements." Eff. II 89-90.


400. NEW COURSE: "Politics of the New Deal (3) I 1989-90 A critical analysis of the New Deal and its transformation of American politics. Beginning with a theoretical and historical examination of the roots of the New Deal, intensive analysis of agriculture, labor, Supreme Court, Depression culture, party politics and World War II will follow. P, 330, or 331, or 332, or 334; consult department before enrolling." Eff. I 89-90.


441. Change Or.S. crosslisting to read "(Identical with N.E.S. 441)". Eff. I 90-91.

441. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "441/541". NOTE: X-list with ORS on 400 level only.

442. Change Or.S. crosslisting to read "(Identical with N.E.S. 442)". Eff. I 90-91.

443. Add crosslisting: "(Identical with R.S.S. 443)". Eff. II 89-90. (Note: Crosslist on 400 level only.)


467. Change Or.S. crosslisting to read "(Identical with N.E.S. 467)". Eff. I 90-91.


496a. Add semester offering "II" only. Eff. I 90-91.

527. NEW COURSE: "Marxism and its Critics (3) I II For a description of course topics, see 427. Graduate-level requirements include a research term paper of 15-25 pages with a bibliography, as well as a beginning research bibliography. P, junior standing. May be convened with 427." Eff. I 89-90.


587. Correction to General Catalog: Delete "(Identical with Bl.S. 587)". Retain other crosslisting.

PSYCHOLOGY (PSYC)

210. Delete the restriction: "Credit is allowed for this course or 302, but not for both." Eff. II 89-90.
296H. NEW COURSE: Proseminar: "Psychology Honors (3) II P, acceptance into honors program." Eff. II 89-90.
411. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "411/511". NOTE: Listing under 411 should have begun with 311 (CB1207). However, change to 411/511 remains the same. (Title: Animal Behavior (3) I.)
430a-430b. Add "Honors" to title. [Note: Does not apply to 500-level course.] Eff. II 89-90.
446. See "546" below.
Delete "GC". Course expansion to "449/549". Graduate-level requirements include a research paper pertinent to the topic of social cognition. Eff. I 89-90.
478. See "480" below.
480. Course expansion and number change to "478/578". Graduate-level requirements include a critical review of the research literature of a relevant topic. Eff. II 89-90.
484. See "584" below.
507a-507b. Change description to read: "Statistical research design, methods and metascience. Both semesters include an introduction to computerized
analytical techniques and software commonly applied in psychological research, such as SAS, SPSSX, BMDP, and EQS. 507a: Bivariate and multiple regression, application of structural equations modeling to manifest variable (path analysis) and latent variable (multivariate) causal analysis. 507b: Application of the general linear model to analysis of variance, covariance and multiple comparisons, exploratory and confirmatory factor analysis, the canonical correlation, discriminant function analysis and multivariate analysis of variance. Open to majors only. Eff. I 89-90.


525. NEW COURSE: "Thinking, Reasoning, and Problem Solving (3) II For a description of course topics, see 425. Graduate-level requirements include an in-depth research paper on as aspect of thinking, reasoning, or problem solving. May be convened with 425." Eff. II 90-91.

546. Course expansion to "446/546". Graduate-level requirements include an in-depth research paper on a single aspect of environmental cognition. Eff. I 89-90.

560a. Change course number to "567". Eff. I 89-90. [For other changes, see "567".]


584. Course expansion to "484/584". Graduate-level requirements include an additional paper pertaining to the course topic. Eff. I 90-91.


694b. Add "[Rpt./3]". Eff. I 83-84 through Summer 1985. [Note: This retroactive change applies only to the 1983-85 General Catalog period. The 1985-87 General Catalog and following catalogs are correct as written.]

RELIGIOUS STUDIES (RELI)


140. Change Or.S. crosslisting to read "(Identical with N.E.S. 140)". Eff. I 90-91.


330a-330b. Change Or.S. crosslisting to read "(Identical with Chn. 330a-330b)". Eff. I 90-91


Add: "Hindu Religious Activities (3) [Rpt./6 units] I II (Identical with Or.S. 345)". Eff. II 89-90.


Change Or.S. crosslisting to read "(Identical with Ju.S. 382)". Eff. I 90-91.


Change Or.S. crosslisting to read "(Identical with N.E.S. 434)". Eff. I 90-91.


Change Or.S. crosslisting to read "(Identical with Jpn. 436)". Eff. I 90-91.


Course number changed from "491a-491b". Eff. I 88-89.

Course number changed to "487a-487b". Retain "GC". Effective I 88-89.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "495i (Delete GC)". Eff. I 89-90.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "495j (Delete GC)". Eff. I 89-90.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "495j (Delete GC)". Eff. I 89-90.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "495i (Delete GC)". Eff. I 88-89.

NEW COURSE: "Natural Resources -- Concepts (3) I Historical and philosophical developments in natural resources management; social, political, and economic factors affecting natural resource use; the role of natural resource managers in today's society." Eff. I 90-91.

Course revised. New listing reads: "Natural Resources -- Plant Identification (3) I Plant classification, identification and nomenclature, with emphasis on the grass, rose, legume, composite, pine, and other plant families containing important forest and range plants. Use of dichotomous keys and recognition of representative species will be utilized to develop plant identification skills. 1R, 6L." Eff. I 90-91.

NEW COURSE: "Natural Resources -- Computer Applications (3) II Application of microcomputer software for management of renewable..."
natural resources. Includes spreadsheets, data base management systems, and statistical programs with emphasis on the introduction to geographic information systems and their applications. 2R, 3L. Open to majors only. P, Math. 160 or 263, prior computer experience. Eff. II 90-91.


NEW COURSE: "Natural Resources — Management Practices (4) I Introduction to resource management practices used to achieve societal goals. Includes practices used to produce water, wood, forage, wildlife and other renewable resources; to protect water, soil, wilderness and scenic attractions; and to mitigate the adverse impacts of management and land-use activities on the environment. 3R, 3L. Field trips. P, 200, 316; CR, 321." Eff. I 90-91.


NEW COURSE: "Natural Resources — Policy and Administration (3) II Resource policy formation; ethics of resource use; administration and organization for resource management; analysis of present policy and trends. P, 200, A.Ec. 476. May be convened with 580." Eff. II 90-91.


NEW COURSE: "Natural Resources — Policy and Administration (3) II For a description of course topics, see 480. Graduate-level requirements include, an in-depth policy analysis paper. May be convened with 480." Eff. II 90-91.

NEW COURSE: "Natural Resources — Planning and Economics (3-3) For a description of course topics, see 486a-486b. Graduate-level requirements include individual project reports in addition to group reports. May be convened with 486a-486b." Eff. I 90-91.

Landscape Architecture (LAR)

Change class structure to "9L". Eff. I 89-90.

Change number of units to "(2)". Change class structure to "1R, 2S." Add crosslisting: "(Identical with I.D. 202)". Eff. II 89-90.


234b. Change course number to "234". Course revised. Eff. I 91-92. [For new listing, see "234"].


Range Management (RAM)

305. DELETE: "Principles of Rangeland Management (3)". Eff. I 90-91.

318. DELETE: "Field Study in Rangeland Management (2)". Eff. I 90-91.


486. DELETE: "Rangeland Planning and Economics (3)". Eff. I 91-92.


Watershed Management (WSM)


480. DELETE: "Forest Policy and Administration (3)". Eff. I 90-91.

481. DELETE: "Simulation of Renewable Natural Resources (3)". Eff. I 90-91.


Wildlife & Fisheries Science (WFSC)


430. Course expansion to "430/530". (Note: ANS is home.) Eff. I 89-90.


530. See "430" above.

549. Add: "Diseases of Wildlife (3) II (Identical with V.Sc. 549) May be convened with 449." Eff. II 89-90.

555R. Add crosslisting: "(Identical with V.Sc. 555R)". Eff. I 90-91. [Note: Do not add crosslisting for "455R".]


Natural Resource Recreation (NRR)

381. DELETE: "Natural Resource Recreation (2)". Eff. II 90-91.


595a. DELETE: Colloquium: "Recreation Resource Management (2)". Eff. II 89-90.

RUSSIAN & SLAVIC LANGUAGES (RUSS)


496a. Transfer course from Russian and Slavic Languages to Russian and Soviet Studies. Eff. I 89-90.

496b. Transfer course from Russian and Slavic Languages to Russian and Soviet Studies. Eff. I 89-90.

496c. Change title to "Language Program in USSR II". Eff. Summer Session I 1989.


RUSSIAN & SOVIET STUDIES (RSS)


409. Add: "Soviet Union (3) II (Identical with Geog. 409)". Eff. II 89-90.


423. Add: "Intellectual History of Russia (3) II (Identical with Hist. 423)". Eff. II 89-90.
Add: "The Russian Revolutions (3) I (Identical with Hist. 424)". Eff. II 89-90.


Add 'Soviet Foreign Policy (3) I (Identical with Pol. 451)". Eff. I 90-91.

Transfer course to Russian and Soviet Studies from Russian and Slavic Languages. Add crosslisting: "(Identical with Pol. 496a)". Eff. I 89-90.

Add semester offering "II" only. Eff. I 90-91.

Transfer course to Russian and Soviet Studies from Russian and Slavic Languages. Eff. I 89-90.

Add semester offering "I" only. Eff. I 90-91.

SOCIOLOGY (SOC)

100. Course number change to "101". Eff. I 90-91.
101. Course number changed from "100". Eff. I 90-91.
442. Change Or.S. crosslisting to read "(Identical with N.E.S. 442)". Eff. I 90-91.
450. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "450/550". Graduate-level requirements include extra readings and a research paper.
467. Change prerequisites to "P, 101 or 301; 6 additional units of sociology or anthropology." Eff. I 90-91.
525. Change title to "Organization Theory". Delete crosslisting: "(Identical with M.A.P. 525)". Eff. II 89-90. [Note: Listing under M.A.P. was previously deleted.]
Course revised. New listing reads: "Theories and Research in Social Psychology (3) A comprehensive introduction to the major theoretical perspectives, methodologies, research areas, and issues in contemporary social psychology." Eff. I 90-91.

NEW COURSE: "Socialization and Society (3) II 1990-91 Various theoretical perspectives are applied to the content, process, and contexts of socialization throughout the life cycle to see how individuals become social beings and societal participants. P, 530, or consult department before enrolling." Eff. II 90-91.

NEW COURSE: "Role, Self, and Identity (3) II 1990-91 An examination of the concepts of role, self, and identity in relation to social action and social psychological functioning. Alternative approaches are presented, but the symbolic interactionist perspective is highlighted. P, 530, or consult department before enrolling." Eff. II 90-91.

NEW COURSE: "Social Relations, Groups, and Networks (3) I 1990-91 An analysis of social interaction in relations, groups, and networks, emphasizing the reciprocal influences of social structure and social process. Theories of exchange, power, status, and justice are considered. P, 530, or consult department before enrolling." Eff. I 90-91.

NEW COURSE: "Gender and Social Structure (3) Using gender and the division of labor as concepts, this course examines gender differentiation in social institutions, particularly families, schools, and work settings. Assesses the extent to which men and women live in separate and unequal worlds and explanations thereof. P, 3 graduate credits in sociology, social psychology or women's studies. (Identical with W.S. 558)". Eff. I 89-90.

Change prerequisites to "P, 101 or consult department before enrolling." Eff. I 90-91.

Change prerequisites to "P, 101 or 301; 6 additional units of sociology or anthropology." Eff. I 90-91.


NEW COURSE: Seminar: "Social Organization (3) I [Rpt./6 units] P, completion of first-year graduate program curriculum in sociology." [Note: This is a two-semester course beginning in fall which receives a "K" grade at end of first semester.] Eff. I 89-90.

SOIL & WATER SCIENCE (SW)


NEW COURSE: "Anticipating the Future: Focus on Environment (3) II Techniques to understand broad issues about the future with focus on environmental topics. Uses computer conferencing and significant student discussion with opportunities for team approaches and reporting. P, upper-division study. May be convened with 551." Eff. II 90-91.

505. Change number of units to "(3)". Change class structure to "1R, 6L." Eff. II 90-91.


550. NEW COURSE: "Anticipating the Future: Focus on Environment (3) II For a description of course topics, see 450. Graduate-level requirements include a report in an area of special interest. May be convened with 450." Eff. II 90-91.


SPANISH & PORTUGUESE (SPAN/PORT)

Spanish (SPAN)


101a. Course number changed to "101". Course revised. Eff. I 89-90. [For new listing, see "101a"].

101b. Change course number to "102". Course revised. Eff. I 89-90. [For new listing, see "102a"].

201. Course number changed from "201a". Course revised. New listing reads: "Second Year Spanish (4) CDT Credit allowed for 201 or 203, but not for both. P, 102 or placement by examination." Eff. I 89-90.

201a. Course number changed to "201". Course revised. Eff. I 89-90. [For new listing, see "201".]

201b. Course number changed to "202". Course revised. Eff. I 89-90. [For new listing, see "202".]

202. Course number changed from 201b. Course revised. New listing reads: "Second Year Spanish (4) CDT Credit allowed for 202 or 333, but not for both. P, 201 or placement by examination." Eff. I 89-90.

202a. Change course number to "205". Course revised. Eff. I 89-90. [For new listing, see "205".]

202b. Change course number to "206". Course revised. Eff. I 89-90. [For new listing, see "206".]

202c-202d-202e. Change course number to "204a-204b-204c". Course revised. Eff. I 89-90. [For new listing, see "204a-204b-204c".]

203. Course number changed from "213". Course revised. New listing reads: "Oral Communication in Spanish (4) Designed for native speakers of Spanish only; considered to be at the third-semester level. Credit allowed for this course or 201, but not for both. (Identical with M.A.S. 203)". Eff. I 89-90.

204a-204b-204c. Course number changed from "202c-202d-202e". Course revised. New listing reads: "Intensive Spanish (8-8-8) Offered in Guadalajara only. 204a is the equivalent of 101 and 102. 204b is the equivalent of 102 and 201. 204c is the equivalent of 201 and 202. P, recommended for highly motivated students and/or those with experience in another Romance language." Eff. I 89-90.

205. Course number changed from "202a". Course revised. New listing reads: "Intensive Spanish (4) 205 is the equivalent of 101 and 102. Recommended for highly motivated students and/or those with experience in another Romance language." Eff. I 89-90.

206. Course number changed from "202b". Course revised. New listing reads: "Intensive Spanish (4) 206 is the equivalent of 201 and 202. Recommended for highly motivated students and/or those with experience in another Romance language." Eff. I 89-90.

213. Course number changed to "203". Course revised. Eff. I 89-90. [For new listing, see "203".]


302. NEW COURSE: "Intensive Spanish, Fifth and Sixth Semesters (6) GRD S Offered in Guadalajara only. For those who have completed four semesters of college Spanish or equivalent. Will cover 5th and 6th semester Spanish. A complete immersion in the study of intermediate Spanish, teaching all four skills. P, 201b. Credit is allowed for this course or 301a-301b, but not for both." Eff. Summer 1989.
<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Effective Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>101</td>
<td>First Semester Portuguese (4) CDT Oral approach. Portuguese for students with no previous experience with the language.</td>
<td>I 89-90</td>
</tr>
<tr>
<td>101a</td>
<td>Course number changed to &quot;101&quot;. Course revised. Eff. I 89-90. [For new listing, see &quot;101a&quot;].</td>
<td></td>
</tr>
<tr>
<td>101b</td>
<td>Change course number to &quot;102&quot;. Course revised. Eff. I 89-90. [For new listing, see &quot;102b&quot;].</td>
<td></td>
</tr>
<tr>
<td>202a</td>
<td>Change course number to &quot;205&quot;. Course revised. Eff. I 89-90. [For new listing, see &quot;205a&quot;].</td>
<td></td>
</tr>
<tr>
<td>202b</td>
<td>Change course number to &quot;206&quot;. Course revised. Eff I 89-90. [For new listing, see &quot;206b&quot;].</td>
<td></td>
</tr>
<tr>
<td>205</td>
<td>Intensive Portuguese (4) 205 is the equivalent of 101 and 102. Recommended for highly motivated students and/or those with experience in another Romance language.</td>
<td>I 89-90</td>
</tr>
<tr>
<td>206</td>
<td>Intensive Portuguese (4) Recommended for highly motivated students or those with experience in another Romance language. P, 102, 205.</td>
<td>I 89-90</td>
</tr>
<tr>
<td>301a-301b</td>
<td>Add crosslisting: &quot;(Identical with L.A.S. 301a-301b)&quot;. Eff. I 90-91.</td>
<td></td>
</tr>
</tbody>
</table>

**SPECIAL EDUCATION & REHABILITATION** See EDUCATION

**SPEECH & HEARING SCIENCES (SPH)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
<th>Effective Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>250</td>
<td>Course number changed from &quot;350&quot;. Change title to &quot;Language Science&quot;. Eff. I 89-90.</td>
<td></td>
</tr>
<tr>
<td>350</td>
<td>Change course number to &quot;250&quot;. Eff. I 89-90. [For other changes, see &quot;250&quot;.</td>
<td></td>
</tr>
</tbody>
</table>
451. Course expansion to "451/551". Change prerequisites to "P, 250." Graduate-level requirements include a scholarly paper/project on a selected topic relevant to the course. Eff. II 89-90.

451. Course number changed from "551". Eff. II 89-90.

500. Change title to "Research Methods in Communication Science and Disorders". Change description to read: "Research design, measurement, statistical analysis of data, scientific writing, the nature of science and research, and inference." Eff. II 89-90.

551. Change course number to "451". Course revised. Eff. II 89-90. [For new listing, see "451"].

551. See "451" above.

553. Course number changed from "553R". Course revised. New listing reads: "Developmental Language Impairments (3) I Topics include: language and nonlanguage characteristics and clinical management of children with developmental language impairment, acquired aphasia, bilingualism and auditory disorders." Eff. I 89-90.

553L. DELETE: "Laboratory in Preschool Language Disorders (1)". Eff. II 89-90.

553R. Change course number to "553". Course revised. Eff. I 89-90. [For new listing, see "553"]

554. Course number changed from "554R". Change number of units to "(3)". Change semester offering to "II". Eff. II 89-90.

554L. DELETE: "Laboratory in Adult Aphasia (1)". Eff. II 89-90.

554R. Change course number to "554". Eff. II 89-90. [For other changes, see "554"].

559. Change course number to "559a-559b". Eff. I 89-90.

559a-559b. Course number changed from "559". After the sentence "Open to majors only", add "559a is for majors concentrating in audiology; 559b is for majors concentrating in speech-language-pathology." Eff. I 89-90.

560a. Change course number to "567". Course revised. Eff. I 89-90. [For new listing, see "567"].

560b. Change course number to "568". Eff. I 89-90. [For new listing, see "568"].

563. NEW COURSE: "Microcomputer Applications (2) II Basic understanding of microcomputer operations and its multiple functions; emphasis on computer literacy, administrative/clinical applications and hands-on instruction." Eff. II 89-90.


Correction to *Curriculum Bulletin*, Vol. 13, No. 2: When this course number was changed from "560b" to "568", a crosslisting with Psychology should have been added: "(Identical with Psyc. 568)". Eff. II 89-90.

Course number changed from "572R". Change title to "Voice Disorders". Change number of units to "(3)". Change semester offering to "I". Change prerequisites to "P, 560". Eff. II 89-90.

DELETE: "Disorders of Phonation Laboratory (1)". Eff. I 89-90.

Change course number to "572". Eff. II 89-90. [For other changes, see "572"].

Course number changed from "573R". Change number of units to "(2)". Change prerequisites to "P, 370". Eff. I 89-90.


DELETE: "Laboratory in Disorders of Fluency (1)". Eff. I 89-90.

Change course number to "573". Eff. I 89-90. [For other changes, see "573".]


**STATISTICS (STAT)**


**SYSTEMS & INDUSTRIAL ENGINEERING (SIE)**

NEW COURSE: "Software Engineering (3) I FORTRAN and C. Modular design, program verification, data structures, and development of algorithms. Credit is allowed for this course or C.Sc. 342, but not for both. CR, 340b." Eff. I 89-90.

Change title to "Software for Engineers". Eff. I 89-90.

Course expansion to "411/511". Graduate-level requirements include separate examinations and a major project. Eff. II 89-90.

See "411" above.

Correction to *Curriculum Bulletin*, Vol. 12, No. 14: Entry should have read "518 only".

Add "[Rpt./2]". Eff. II 88-89.

NEW COURSE: Colloquium: "Selected Topics in Optimization (3) [Rpt./1] I II P, 520, 544." Eff. II 89-90.
Page 129-130 of the General Catalog:

(1) Under paragraph beginning "Drama core curriculum": Delete "203, 204" from and add "222" to lower-division drama course requirements.
(2) Under paragraph beginning "Bachelor of Fine Arts (major in drama-musical theatre)": Add "205" to lower-division drama course requirements.
(3) Under paragraph beginning "Bachelor of Fine Arts (major in drama education)": Add "203, 204" to drama course requirements. Eff. I 89-90.

Page 130 of the General Catalog: First column, fourth paragraph, under Bachelor of Fine Arts (major in drama education), change the sentence beginning "The student must complete the following drama courses:" to read:
"Dram. 410, 440, 455, 456; and at least 6 units selected from 203, 204, 237, 238, 239, 250, 251, 267, 336, or 468, and the following education courses...". Eff. II 89-90.

Page 130 of the General Catalog: first column, last paragraph, beginning "Bachelor of Arts in Drama (major in dramatic theory),": Delete "140a-140b" and "203" from list of required courses and add "246", "330a-330b", and "440". Eff. II 89-90.

118. Change repeatability to "[Rpt./2 units]". Eff. I 89-90.

140a-140b. Add restriction at end: "Credit will not apply toward theatre arts degree." Eff. I 90-91.

205. Add: "Open to majors only." Eff. I 90-91.


225. Change repeatability to "[Rpt./2 units]". Eff. I 89-90.

246. NEW COURSE: "Dramatic Criticism (3) II Analysis of representative plays from world drama with an emphasis on their theatrical, literary and historical contexts. P, 245." Eff. II 89-90.


340a-340b. NEW COURSE: "History of the Theatre (3) I II Origins and development of the arts of theatre from primitive ritual to modern times; integrated study of plays, theatre architecture, dramatic styles, and theories of significant periods. 340a is not prerequisite to 340b. P, 245, 246. Open to majors only. 340a is a Writing-Emphasis Course. P, satisfaction of the upper-division writing-proficiency examination (see "Writing-Emphasis Courses" in the Academic Guidelines section of this catalog)." Eff. I 90-91.


397a. NEW COURSE: "Writing for the Arts (3) I II P, Engl. 101, 102. (Identical with Art 397a, Dnc. 397a, F.A. 397a, M.Ar. 397a, Mus. 397a)". Eff. I 89-90.

422. Course expansion to "422/522". Graduate-level requirements include an additional creative and/or research project. Eff. I 89-90.

424. Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "424/524".
Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "401/501".

Change number of units to "(3)". Change prerequisites to "P, 12 units of theatre arts or related arts fields." Eff. I 90-91.

Change number of units to "(3)". Change prerequisites to "P, 12 units of theatre arts or related arts fields." Eff. II 90-91.

See "540" below.


Change course number to "440". Course revised. Eff. I 90-91. [For new listing, see "440".]

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "440a-440b (Delete GC)".


See "542" below.

Correction to Curriculum Bulletin, Vol. 12, No. 9: "GC" should not have been deleted. Eff. I 88-89.

See "561" below.

Transfer course from Theatre Arts to Media Arts, simultaneously changing course number to "424". Course revised. Eff. I 90-91. [For new listing, see "M.Ar. 424", above.]


Delete crosslisting: "(Identical with M.Ar. 475)". Eff. II 89-90.

Correction to Curriculum Bulletin, Vol. 13, No. 2: Effective date to add "GC" should have been II 88-89. Effective date to delete "GC" should have been Summer 1989.

Course expansion to "496d/596d". Eff. II 89-90.

Correction to Curriculum Bulletin, Vol. 12, No. 14: Entry should have read "497a-497f/597a-597f". Change titles of 500s to those of 400s.

Transfer course from Drama to Media Arts. Eff. Summer 1989.

See "422" above.

Change number of units to "(3)". Change prerequisites to "P, 12 units of theatre arts or related arts fields." Eff. I 90-91.

Change number of units to "(3)". Change prerequisites to "P, 12 units of theatre arts or related arts fields." Eff. II 90-91.

See "540" below.

Course expansion and number change to "439/539". Graduate-level requirements include an additional creative and/or research project. Eff. I 89-90.
Course expansion to "442/542". Graduate-level requirements include an additional creative and/or research project. Eff. I 90-91.

Course number changed to "461/561". Graduate-level requirements include an additional creative and/or research project. Eff. I 89-90.

Transfer course from Theatre Arts to Media Arts, simultaneously changing course number to "524". Course revised. Eff. I 90-91. [For new listing, see "M.Ar. 524", above.]

Transfer course from Theatre Arts to Media Arts, simultaneously changing course number to "528". Course revised. Eff. I 90-91. [For new listing, see "M.Ar. 528", above.]

See "496d" above.

Correction to General Catalog: Titles should be the same as 497a-497f, as they may be jointly convened; specifically, 597c should be "Lighting/Sound", 597d should be "Production Design", and 597e should be "Scenic Production".

Course number changed from "642a". Course revised. New listing reads: "Advanced Studies in Theatre History (3) I II Concentrated study in theatre history, with major emphasis on the physical theatre, standard scholarly works, and source materials." Eff. I 90-91.

Change course number to "642". Course revised. Eff. I 90-91. [For new listing, see "642".]


Add asterisk after course number. At end of course listing, add note: **Students may earn a maximum of 9 units of Dram. 696, with a maximum of 6 units on any one area." Eff. II 88-89.

Delete "[Rpt./3 units]". Eff. II 88-89.

Add "units]" after "[Rpt./6". Eff I 89-90.

Add "units]" after "[Rpt./6". Eff I 89-90.

TEACHING & TEACHER EDUCATION (See EDUCATION)

VETERINARY SCIENCE (VSC)


Change course number to "450R" and "450L". Course revised. Eff. II 89-90. [For new listings, see "450R" and "450L".]

Course number changed from "450". Course revised. New listing reads: "Medical Mycology Laboratory (2) II (Identical with Micr. 450L). May be convened with 550L". Eff. II 89-90.

Course number changed from "450". Course revised. New listing reads: "Medical Mycology (2) II (Identical with Micr. 450R) May be convened with 550R." Eff. II 89-90.

Add: "Physiology Laboratory (2) II (Identical with Ecol. 466) May be convened with 566." Eff. II 89-90.
549. NEW COURSE: "Diseases of Wildlife (3) II For a description of course topics, see 449. Graduate-level requirements include either a term paper based on assigned reading or a research paper compiling field studies on other research experiences in wildlife disease. (Identical with An.S. 549 and W.F.Sc. 549) May be convened with 449." Eff. II 89-90.

550. Change course number to "550R" and "550L". Course revised. Eff. II 89-90. [For new listings, see "550R" and "550L"].

550L. Course number changed from "550". Course revised. New listing reads: "Medical Mycology Laboratory (2) II (Identical with Micr. 550L) May be convened with 450L." Eff. II 89-90.

550R. Course number changed from "550". Course revised. New listing reads: "Medical Mycology (2) II (Identical with Micr. 550R) May be convened with 450R." Eff. II 89-90.


566. Add: "Physiology Laboratory (2) II (Identical with Ecol. 566) May be convened with 466." Eff. II 89-90.


WOMEN'S STUDIES (WS)


496c. Add seminar: "Women in American Architecture (3) II (Identical with Arch. 496c, which is home)". Eff. II 89-90.


596g. Add: Seminar: "Comparative Literature (3) [Rpt.] I II (Identical with Engl. 596g)". Eff. I 90-91. [Note: Smr. 2 only.] Delete listing. Eff. II 90-91.

596n. Add: Seminar: "Comparative Women's History (3) [Rpt./4] P, consult committee before enrolling. (Identical with Hist. 596n, which is home)". Eff. II 89-90.