

*Handwritten: 1992-1993
Senate Mtg.
Open Session*

**1992-1993 State Health Care Plan
Deficiencies and Misrepresentations**

On August 1, 1992, all State Employees were required to re-enroll in one of three health care plans which were purported by J. Elliot Hibbs, Director, Arizona Dept. of Administration to:

"retain the quality of benefits at reasonable level of cost."

Subsequent to August 1, it has become apparent that information provided during the enrollment period by Intergroup management personnel via phone was incorrect. They repeatedly misrepresented Interflex as being comparable to the previous indemnity option (Connecticut General) specifically in the areas of medical supplies and durable medical equipment. University employees or their dependents who have a chronic disease or disability must now absorb a disproportionate financial burden and significant loss of medical coverage.

Coverage Comparisons

| <u>Benefit Areas</u> | <u>Interflex</u> | <u>Connecticut General</u> |
|---------------------------|--|--|
| medical supplies | limited to items on their formulary | 80% of the cost of medical supplies prescribed by a physician (after deductible) |
| durable medical equipment | maximum of \$425 limited to equipment on their formulary | 80 % of the cost of durable medical equipment prescribed by a physician (after deductible) |
| home health care | skilled, intermittent part-time nursing only non-custodial | 80 % of the cost of home health care prescribed by a physician (after deductible) |

Misrepresentations

- 1) State employees were told that the Interflex Out-of-Network (70%/30%) coverage included medical supplies and durable medical equipment with a prescription from the physician.
- 2) The Benefits office informed employees that representatives from Intergroup and Cigna were not allowed to be present at the pre-enrollment meetings as was the case in the past. This action resulted in further confusion regarding coverages.

- 3) Employees were not supplied with adequate written materials on the various coverages and exclusions during pre-enrollment. Later, we were told that the Certificate of Coverage which outlines specific coverages and exclusions was not finalized until after August 1st, and therefore was not available for review. The only other sources of information were the Hotline numbers. Information received from these numbers were inconsistent and contradictory.

For the reasons mentioned above, as well as those outlined in the attached memorandum from Dr. Cusanovich, we recommend that the Faculty Senate sponsor a forum to provide an opportunity for University personnel to address their concerns. We also request your support in pressing for alternatives which provide adequate and equitable coverage for University employees with chronic disease or disability.

THE UNIVERSITY OF
ARIZONA
TUCSON ARIZONA

Office of the Senior Vice President
for Academic Affairs and Provost

512 Administration
Tucson, Arizona 85721
(602) 621-1856
FAX 602 621-9118

December 15, 1992

MEMORANDUM TO: Deans, Department Heads, and Directors
FROM: Michael A. Cusanovich *MAC*
Interim Provost
RE: Health Insurance

As you know, the state's three Universities were provided a Health Insurance plan by the Department of Administration (DOA) for the current fiscal year. At the time the plan was released, the University of Arizona protested the plan. The complaints focused on four points.

- The lack of a Benefits Advisory Commission
- The inequity in the state premium subsidy
- The enrollment mechanism used
- The quality of the plan

Although no relief has been forthcoming from the state, the three Universities along with the central office, are pressing alternatives which will result in an adequate and equitable insurance plan. The options being discussed include having the Universities leave the state system and contract for better services.

Although I can not predict the outcome, it is important for you to know that this is a matter of high priority and is being addressed as vigorously as possible.


Please circulate this memo to all faculty and staff.

MAC/jz

MEMORANDUM

January 7, 1993

TO: Members of the Faculty

FROM: President Manuel T. Pacheco 

SUBJECT: Americans with Disabilities Act (ADA), Self-evaluation

The Americans with Disabilities Act (ADA) which was signed into law by President Bush in July 1990, requires that all Public Entities complete a comprehensive self-evaluation of their programs, services, activities and facilities to ensure non-discrimination on the basis of disability.

As with all constituencies of the University, the input of the Faculty Senate is a critical component of this self-assessment. I ask that each of you provide your input and support for this important institutional initiative. Your feedback is vital in ensuring a complete and comprehensive evaluation of institutional perspectives and needs.

MTP/jmc

| How much need do you have for support in the following areas for teaching students with disabilities? | Great need | Moderate need | A little need | No need | Not applicable |
|--|------------|---------------|---------------|---------|----------------|
| Ensuring that disabled students have adequate access to class activities (access to buildings, handicap facilities on field trips, etc.) | A | B | C | D | F |
| Arranging for special equipment | A | B | C | D | F |
| Providing alternative testing arrangements | A | B | C | D | F |
| Providing alternative materials (readers, taped texts, etc.) | A | B | C | D | F |
| Adapting other aspects of a course | A | B | C | D | F |
| Finding information/working with campus resources for disabled students | A | B | C | D | F |
| Tutoring | A | B | C | D | F |
| Advising | A | B | C | D | F |
| Other (please specify) _____ | A | B | C | D | F |

What does your department/college currently have in place to facilitate serving students with disabilities? (Check ALL that apply.)

- Support services Facilities Policies/procedures
 Staff Equipment Don't know
 Other (please specify) _____

Would you be interested in attending training on disabilities and disability accommodation?

- Yes, definitely Probably not
 Yes, but specifically about (please specify) _____ Definitely not
 Maybe

What specific areas would you be interested in learning about? (Check ALL that apply.)

- Academic support services (test writing, note-taking, sign language interpreting, etc.)
 Service needs: materials and equipment Tutoring
 Service needs: testing Advising (academic)
 Special assistance in the laboratory Career advising
 Creating an integrated campus setting Other (please specify) _____

Please write below any additional comments you have on the UA's services or your needs in teaching students with disabilities at the UA.

Please fold, staple, and return via campus mail to the address below

CENTER FOR RESEARCH ON UNDERGRADUATE EDUCATION
 Education Building, Box 513
 University of Arizona
 Tucson, AZ 85721

CAMPUS MAIL

504/ADA UNIVERSITY REQUIREMENTS

UNIVERSITY OBLIGATIONS

The University of Arizona may not discriminate against qualified disabled students in the delivery of services, programs and activities. A "qualified individual" is a person who with or without reasonable modifications to the University's policies or practices, or the removal of architectural, communication or transportation barriers, meets the University's essential eligibility requirements to receive University services or participate in University programs.

The University shall make reasonable accommodation to the documented physical or mental limitations of an otherwise qualified disabled student. In meeting this requirement, departments may assist disabled students directly or through coordination with existing campus student services programs, (i.e. Center for Disability Related Resources, University Learning Center).

I. TREATMENT OF STUDENTS

A. Qualified students with disabilities may not, on the basis of disability, be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination under any of the following: curricular activities, extra-curricular activities or educational programs or activities offered by the University. These "activities" or University benefits include, among others, academic, research, occupational training, housing, health insurance, counseling, financial aid, physical education, athletics, recreation, and transportation.

B. Where departments participate in programs not wholly operated by the department (ie., in connection with student teaching assignments, internships...) they should assure themselves that the program provides equal opportunity for the participation of qualified students with disabilities.

C. All programs and activities should be conducted in the most integrated setting possible. This means, as for all students, providing options for selecting classes, and options for participating in activities and programs. This includes the right to refuse special accommodations and to choose to participate in the general program.

II. ACADEMIC ADJUSTMENTS/REASONABLE ACCOMMODATION

A. ACADEMIC ADJUSTMENTS

The key question is whether, given appropriate accommodation or with reasonable modification to rules, policies and practices, a disabled individual meets the essential eligibility requirements for the receipt of services or participation in the programs or activity of the University.

Academic requirements may need to be modified to insure that they do not discriminate against qualified disabled students. For example, modifications may include: changes in the length of time

permitted to complete degree requirements, individualized testing accommodations, substitution of specific courses required for the completion of a degree requirement (i.e., a department may permit an otherwise qualified disabled deaf student to substitute a music history class for a required course in music appreciation), and adaptation of the manner in which specific courses are conducted. Where a disability exists that impairs sensory, manual, or speaking skills, procedures for evaluating a student's academic achievement may need to be modified to truly evaluate the student's skills rather than reflect the particular disability limitation.

B. AUXILIARY AIDS

For students with impaired sensory, manual, or speaking skills, the following types of auxiliary aids and services may be necessary to provide access to learning:

1. qualified interpreters or other effective methods of making aurally delivered materials available to individuals with hearing impairments;
2. qualified readers, taped texts, or other effective methods of making visually delivered materials available to individuals with visual impairments;
3. acquisition or modification of specialized equipment or devices;

In meeting this requirement, departments may assist disabled students directly or by coordination with existing campus student services programs (i.e., Center for Disability Related Resources, University Learning Center). The Center for Disability Related Resources provides services for students with physical disabilities, while the University Learning Center serves students with learning disabilities.

C. FACILITY ACCESS

Section 504 and Title II of ADA concentrate on programmatic, rather than architectural, access. Are the programs and activities, viewed in their entirety, readily accessible to and usable by people with disabilities?

Where University facilities are inaccessible to, or unusable by disabled students, accessibility to University programs and benefits may be achieved through such means as:

1. Reassignment of classes or other services to an accessible building or classroom area.
2. Redesign of equipment.
3. Alteration of existing facilities. Structural changes in existing buildings are not required where other methods are effective in achieving program accessibility.

Students with disabilities may not be excluded from a specifically requested course offering because it is not offered in an accessible location, but every section of that course need not be made accessible.

504/ADA FACT SHEET

DEFINITIONS

Section 504

Section 504 of the Rehabilitation Act of 1973, as amended, prohibits discrimination in federally assisted programs and activities of state and local governments. Qualified handicapped persons may not on the basis of a handicap be excluded from participation in, be denied the benefits of, or otherwise be subjected to discrimination in all programs and activities offered by the University.

ADA

The Americans with Disabilities Act (ADA) gives to individuals with disabilities civil rights protection with respect to discrimination, which are parallel to those provided to individuals on the basis of race, color, national origin, sex and religion. It combines in its own unique formula elements drawn principally from two (2) key civil rights statutes -- the Civil Rights Act of 1964 and Title V of the Rehabilitation Act of 1973.

Disability

The term "disability" means, with respect to an individual. (A) A physical or mental impairment that substantially limits one or more of the major life activities of such individual; (B) Has a record of such an impairment; or (C) Is regarded as having such an impairment.

Qualified Individual

A person who with or without reasonable modifications to the University's policies or practices, or the removal of architectural, communication or transportation barriers, meets the University's essential eligibility requirements to receive University services or participate in University programs and activities.

Open Session

1. Sherry Santee, Disability-Related Resources, on Health Care Issues.
2. Dr. Kent Kloepping and Gene Tchida from the Center for Disability-Related Resources, and Dr. Ann Scott, Center for Undergraduate Research, on a questionnaire they wish to have Senators complete.

Dr. Garcia requests that you read the following immediately after their presentation: Statement by J. D. Garcia

I would like to urge each of you to give thoughtful attention to this survey on making our University "user-friendly" for students with disabilities. This is an important topic--one which a federal law requires us to think about, but a topic which we as teachers and advisors should be attuned to in any case. For me, this is also a personally important issue. My son, Karl Garcia, suffered a spinal injury in a car accident and now pursues his career as a computer manager in a wheelchair. Our country needs to help all Americans to develop to the maximum of their potential. We as a University community need to make sure that we are providing access to paths of learning for all of our students.

I urge you to read the material presented and fill in the questionnaire as soon as possible--this data will help the institution plan for providing better access. I hope your questionnaire will be in the mail tomorrow.



*Approved
by Faculty
Senate 1-11-93*

CURRICULUM

Vol. 14 No. 13 The University of Arizona December 28, 1992

USE OF THIS BULLETIN: This material is presented to the Faculty Senate for information or approval as designated. Prior to approval, the material is subject to university-wide review. Questions or objections may be referred to the Curriculum Office, ext. 1-3913, prior to the date below. Items for which objections are raised and which are not resolved will be withdrawn from consideration prior to faculty senate approval. Questions or objections raised after the deadline will be referred to the Faculty Senate or appropriate Council. Deadline for objections on material in this bulletin is January 11, 1993.

C O N T E N T S

- I. NOTICES (for information)
- II. NEW COURSES & COURSE DELETIONS
(for approval)
- III. COURSE & CATALOG CHANGES
(for information)

I. NOTICES (for information)

Final action of the Board of Regents, December 17, 1992

- A. Approved the deletion of the major in Agricultural Biosystems Technology for the B.S. in Agriculture degree
- B. Approved the deletion of the undergraduate majors in agronomy, horticulture and entomology for the B. S. in Agriculture degree.
- C. Approved the proposal to establish a major in environmental science for a Bachelor of Science in Environmental Sciences degree.
- D. Approved the name change for the major from Personnel Management to Human Resources Management for the Bachelor of Science in Business Administration degree.
- E. Approved the deletion of the interior design major for the Bachelor of Science in Family and Consumer Resources degree.
- F. Approved the name change of the Graduate Library School to School of Library Science.
- G. Approved the proposal to establish a major in library science for the M.A. and Ph.D. degrees.
- H. Approved the deletion of the Nursing Specialist degree.
- I. Approved the proposal to establish a Master of Public Health (MPH) degree.
- J. Approved the proposal to establish the major in statistics for the Ph.D. degree.
- K. Approved the proposal to establish the major in pathobiology for the M.S. and Ph.D. degrees.
- L. Approved the name change for the majors of elementary and secondary education to teaching and teacher education for the M.A., Ed.D. and Ph.D. degrees
- M. Approved requests for Planning Authorization for the following programs:
 - (1) Doctor of Architecture degree.
 - (2) Major in gerontology for the M.S. degree.
- N. Approved extension of planning authorization for a major in computer engineering for the M.S. and Ph.D. degrees.

II. NEW COURSES AND COURSE DELETIONS

Accounting (ACCT)

472. COURSE DELETION: "Fund Accounting (3)." Eff. I 93-94
523. COURSE DELETION: "Estate Planning and Taxation (3)." Eff. I 93-94.
527. COURSE DELETION: "Tax Aspects of Real Estate Transactions (3)." Eff. I 93-94.
572. COURSE DELETION: "Principles of Fund Accounting (3)." Eff. I 93-94.

Agricultural and Biosystems Engineering (ABE)

415. Change course description to "Study of existing models based upon principles of thermodynamics and fluid flow involving simulation of 1) soil temperature and moisture distribution, 2) radiation balances of plants and ventilated greenhouses, and 3) photosynthesis and transpiration. 2R, 3L. 2ES, 1ED. P, AME 240. May be convened with 515. Jordan." Eff. I 93-94.

American Indian Studies (AINS)

- 596f. NEW COURSE: Seminar: "American Indian Studies (1-2) [Rpt./3] I II." Eff. I 93-94.

Animal Sciences (AN S)

- 580.+ COURSE DELETION: "Composition & Structure of Meat (2)." Eff. I 93-94.

Anthropology (ANTH)

- 486.- Delete: "Comparative Community Development (3)." Eff. I 93-94.

Arid Lands (AR L)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Atmospheric Sciences (ATMO)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Civil Engineering (CE)

522. COURSE DELETION: "Hydropower Engineering (3)." Eff. I 93-94.

Classics (CLAS/GRK/LAT)

Classics (CLAS)

220. NEW COURSE: "The Classical Tradition I (3) I Surveys western civilization from Greco-Roman perspective, beginning before the Greeks and Romans, investigating the origins of their cultures, and proceeding through Greece and Rome to the Middle Ages." Eff. I 93-94.

Latin (LAT)

403. NEW COURSE: "Late Antique Literature (3) [Rpt./1] I II S Selections from genres and/or authors, both Christian and non-Christian, from the late antique period. P, 400. May be convened with 503." Eff. I 93-94.
503. Add: "Late Antique Literature (3) [Rpt./1] I II S For a description of course topics, see 403. Graduate students will be required to write a research paper using standard reference works, periodicals, and recent publications. May be convened with 403." Eff. I 93-94.

Communication (COMM)

- 696b. COURSE DELETION: "Literature as Communication (3)." Eff. I 93-94.

East Asian Studies (EAS/CHN/JPN)

Japanese Studies (JPN)

- 220.+ NEW COURSE: "Japanese Religion (3) 1994-95 Introductory to texts, images and activities, both historical and contemporary, that comprise Japanese religion. One class each week will be a discussion session. (Identical with RELI 220)." Eff. I 94-95.
- 402.+ NEW COURSE: "Gender and Language in Japan (3) II 1994-95 Introduction to general issues of gender and language use, specific gender-related differences in the Japanese language, and gender roles in Japan. P, 202 or permission of instructor. (Identical with ANTH 402 and LING 402) May be convened with 502. Writing-Emphasis Course." Eff. II 94-95.
- 502.+ Add: "Gender and Language in Japan (3) II 1994-95 For description of course topics, see 402. Graduate-level requirements include additional readings and reports. (Identical with LING 502) May be convened with 402." Eff. I 94-95.

Educational Administration (ED A)

- 694a. COURSE DELETION: "Educational Administration (1-3)." Eff. I 93-94.

Electrical and Computer Engineering (ECE)

631. NEW COURSE: "Neural Networks (3) I Theory and application of parallel distributed computation via elementary processing elements; PE models and neural analogies; statistical classification, supervised/unsupervised; neural net models; perceptrons, associative memories; training algorithms." Eff. I 93-94.

English (ENGL)

- 454.- Add: "Irish Revolutionary Literature (3) I (Identical with HUM 454)." Eff. I 93-94.

Family and Consumer Resources (FCR/COUN/FS/HE E/ID/MCS)

Family Studies (FS)

- 243.- Delete: "Sociology of Adult Life (3)." Eff. I 93-94.

French and Italian (FREN/ITAL)

French (FREN)

440. NEW COURSE: "French Poetry (3) I The evolution of poetic form and content from the Middle Ages to the present. P, 350." Eff. I 93-94.
- 496a. NEW COURSE: Seminar: "Studies in French Literature (3) [Rpt./9 units] I P, 350." Eff. I 93-94.

Geosciences (GEOS)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Gerontology (GERO)

- 243.- Delete: "Sociology of Adult Life (3)." Eff. I 93-94.
- 406.- Delete: "Social Gerontology (3)." Eff. I 93-94.
- 506.- Delete: "Social Gerontology (3)." Eff. I 93-94.

Health-Related Professions (HRP/EXSS/HLTH/MEDT/OSH)

Health Education (HLTH)

- 393a. NEW COURSE: Internship: "Pre-Med (3) I II S Open to pre-med students only." Eff. II 92-93.

535. NEW COURSE: "Multicultural Health Beliefs (3) II Designed to provide a sensitivity by health promotion professionals to the varying multicultural health beliefs and needs of our society. Special emphasis on ethnic characteristics of minority populations in the State of Arizona with recommendations for programming strategies." Eff. II 92-93.

History (HIST)

345. NEW COURSE: "New American West (3) I II S The major social, political, and economic changes in the twentieth century American West; the commonalities and conflicts within the region." Eff. I 93-94.
- 483.+ NEW COURSE: "Gender and African History (3) I II S The history of men, women, gender relations, and gender meanings in sub-Saharan Africa. The importance of gender analysis, both sociological and symbolic, to understanding African history. P, 3 units of history or consent of instructor. (Identical with WS 483) May be convened with 583.." Eff. I 93-94.
- 583.+ Add: "Gender and African History (3) I II S For description of course topics, see 483. Graduate-level requirements will include a research paper and additional discussion sessions. (Identical with WS 583) May be convened with 483." Eff. I 93-94.

Humanities (HUM)

- 454.+ NEW COURSE: "Irish Revolutionary Literature (3) I Focus on aesthetic, feminist, and political revolution in 20th century Irish literature; complexities of Irish nationalism examined through history, art, and literature. P, freshman composition. (Identical with ENGL 454)." Eff. I 93-94.

Hydrology and Water Resources (HWR)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.
- 696q. NEW COURSE: "Advanced Methods in Hydrometeorology/Hydroclimatology (1-3) I II." Eff. I 93-94.

Journalism (JOUR)

452. COURSE DELETION: "The Pretentious Idea (3)." Eff. I 93-94.
552. Delete: "The Pretentious Idea (3)." Eff. I 93-94.

Law (LAW)

- 696g. COURSE DELETION: "Current Business Regulation (3)." Eff. I 93-94.

671.- Delete: "Business, Government and Society (3)." Eff. I 93-94.

Management and Policy (MAP)

401. COURSE DELETION: "Environment and Strategic Management in Organizations (3)." Eff. I 93-94.
433. COURSE DELETION: "Topics in Performance Appraisal (3)." Eff. I 93-94.
- 671.+ COURSE DELETION: "Business, Government and Society (3)." Eff. I 93-94.

Materials Science and Engineering (MSE)

422. COURSE DELETION: "Extractive Metallurgy of Nonferrous Metals (3)." Eff. I 93-94.
- 450L. COURSE DELETION: "Materials Processing Lab (1)." Eff. I 93-94.
- 450R. COURSE DELETION: "Materials Processing (3)." Eff. I 93-94.
474. COURSE DELETION: "Preparation of Electronic Materials (3)." Eff. I 93-94.
536. COURSE DELETION: "Advanced Microstructural Characterization by Transmission Electron (3)." Eff. I 93-94.
- 550L. Delete: "Materials Processing Lab (1)." Eff. I 93-94.
- 550R. Delete: "Materials Processing (3)." Eff. I 93-94.
574. Delete: "Preparation of Electronic Materials (3)." Eff. I 93-94.

Mathematics (MATH)

554. COURSE DELETION: "Intermediate Ordinary Differential Equations and Stability Theory (3)." Eff. I 93-94.
- 559a-595b. COURSE DELETION: "Mathematical Foundations of Analytical Mechanics (3)." Eff. I 93-94.

Medicine (MED/ANES/F CM/IMED/NEUR/ OB G/OPH/PATH/PED/PSYI/RONC/RADI/SURG)

Family and Community Medicine (F CM)

- 593a. NEW COURSE: Internship: "Public Health (1-12) [Rpt./12 units]." Eff. II 92-93.
- 596q. NEW COURSE: Seminar: "Introduction to Public Health (3) I." Eff. I 93-94.
- 896q. Add: Seminar: "Introduction to Public Health (3) I." Eff. I 93-94.

Internal Medicine (IMED)

- 811b. COURSE DELETION: "Intensive Care (4)." Eff. I 93-94

Mining and Geological Engineering (G EN/MNEC/MNE)

Geological Engineering (G EN)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Mining Engineering (MNE)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Molecular and Cellular Biology (MCB)

- 495a. COURSE DELETION: Colloquium: "Current Subjects in Molecular and Cell Biology." Eff. I 93-94.

Nutrition and Food Science (N FS)

360. COURSE DELETION: "Food Chemistry (3)." Eff. I 93-94.
- 468b. COURSE DELETION: "Food Processing (3)." Eff. I 93-94.
560. COURSE DELETION: "Advanced Food Chemistry (3)." Eff. I 93-94.
- 580.- Delete: "Composition and Structure of Meat (2)." Eff. I 93-94.
- 594a. COURSE DELETION: Practicum: "Instruction Techniques in Nutrition and Food Science (2)." Eff. I 93-94.
- 595a. COURSE DELETION: Colloquium: "Instruction Techniques in Nutrition and Food Science (1)." Eff. I 93-94.
- 696c. COURSE DELETION: Seminar: "Food Science (1)." Eff. I 93-94.

Optical Sciences (OPTI)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Political Science (POL)

459. COURSE DELETION: "Problems of World Order (3)." Eff. I 93-94.
559. Delete: "Problems of World Order (3)." Eff. I 93-94.
- 595b. COURSE DELETION: "Political Behavior (3)." Eff. I 93-94.
- 596f. COURSE DELETION: "Public Law and Judicial Process (3)." Eff. I 93-94.

Remote Sensing (REM)

- 490.+ NEW COURSE: "Remote Sensing for the Study of Planet Earth (3) II 1993-94 A multidisciplinary course delineating the physical basis of electromagnetic remote sensing, the concepts of information extraction, and applications pertinent to earth systems science. (Identical with AR L 490, ATMO 490, G EN 490, GEOG 490, GEOS 490, HWR 490, MNE 490, OPTI 490, RNR 490, SW 490). May be convened with 590." Eff. II 93-94.
- 590.+ Add: "Remote Sensing for the Study of Planet Earth (3) II 1993-94 For a description of course topics, see 490. Graduate-level requirements include an additional term paper. (Identical with AR L 590, ATMO 590, G EN 590, GEOG 590, GEOS 590, HWR 590, MNE 590, OPTI 590, RNR 590, SW 590). May be convened with 490." Eff. II 93-94.

Religious Studies (RELI)

- 220.- Add: "Japanese Religion (3) 1994-95 (Identical with JPN 220)." Eff. I 94-95.

Renewable Natural Resources (RNR)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Sociology (SOC)

- 243.+ COURSE DELETION: "Sociology of Adult Life (3)." Eff. I 93-94.
- 406.+ COURSE DELETION: "Social Gerontology (3)." Eff. I 93-94.
- 506.+ Delete: "Social Gerontology (3)." Eff. I 93-94.
- 486.+ COURSE DELETION: "Comparative Community Development (3)." Eff. I 93-94.

Soil and Water Science (SW)

- 490.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 490). May be convened with 590." Eff. II 93-94.
- 590.- Add "Remote Sensing for the Study of Planet Earth (3) II 1993-94 (Identical with REM 590). May be convened with 490." Eff. II 93-94.

Speech and Hearing Sciences (SP H)

106. COURSE DELETION: "Voice and Articulation (3)." Eff. I 93-94.

Teaching and Teacher Education (TTE)

- 338j. COURSE DELETION: "The Teaching of Secondary School Subjects - Bilingual (3)." Eff. I 93-94.
- 497a. COURSE DELETION: Workshop: "School Evaluation: Accreditation Problems Procedures (1-3)." Eff. I 93-94.

Theatre Arts (T AR)

246. COURSE DELETION: "Dramatic Criticism (3)." Eff. I 93-94.

Women's Studies (WS)

- 483.- Add: "Gender and African History (3) I II S (Identical with HIST 483) May be convened with 583." Eff. I 93-94.
- 583.- Add: "Gender and African History (3) I II S (Identical with HIST 583) May be convened with 483." Eff. I 93-94.

III. COURSE AND CATALOG CHANGES

Accounting (ACCT)

550. Change course title to "Financial Accounting." Eff. I 93-94.

African American Studies (AAS)

220. Change course title to "Introduction to African American Studies." Eff. I 93-94

222. Change course title to "African American Studies: A History of Ideas." Eff. I 93-94.

396H. Change number of units from "(3)" to "(4)." Eff. I 93-94.

Agricultural Education (A ED)

485. Course expansion from "485" to "485/585." Eff. II 92-93.

585. Add "Teaching Psychomotor Skills in Laboratory Sciences (2) II For a description of course topics, see 485. Graduate-level requirements include additional assigned readings, demonstrations, lesson presentations, and a position paper. May be convened with 485." Eff. II 92-93.

Animal Sciences (AN S)

180.+ Change course number from "180" to "280." Eff. I 93-94.

280.+ Course number changed from "180" to "280." Title: "Science of Meat and Meat Products" Eff. I 93-94.

313. Course number changed from "413" to "313." Title: "Principles of Animal Breeding." Eff. I 93-94.

315L.+ Course number changed from "415L" to "315L." Title: "Physiology of Reproduction Laboratory." Eff. I 93-94.

315R.+ Course number changed from "415R" to "315R." Title: "Physiology of Reproduction." Eff. I 93-94.

330.+ Course number changed from "430" to "330." Title: Principles of Nutrition." Eff. I 93-94.

413.+ Change course number from "413" to "313." Delete crosslisting with GENE. Eff. I 93-94.

415L.+ Change course number from "415L" to "315L." Eff. I 93-94.

415R.+ Change course number from "415R" to "315R." Eff. I 93-94.

430.+ Change course number from "430" to "330." Eff. I 93-94.

Anthropology (ANTH)

402.- Add: "Gender and Language in Japan (3) II 1994-95 (Identical with JPN 402). Writing-Emphasis Course." Eff. II 94-95.

Arid Lands (AR L)

595a. Change semester offering to "I II." Eff. II 92-93.

Art (ART)

476. Change prerequisite to "P, 9 units of fibers courses." Delete "May be convened with 576." Eff. I 93-94.

576. Delete prerequisite. Delete "May be convened with 476." Eff. I 93-94.

676. Delete prerequisite. Eff. I 93-94.

Atmospheric Sciences (ATMO)

463. Change course title and description to "Advanced Statistical Methods in the Atmospheric Sciences (3) I Time series analysis, interpolation methods, objective analysis, statistical weather forecasting, forecast evaluation, and introduction to chaos theory. P, 462 or equivalent." Eff. I 93-94.

471. Change title to "Synoptic Meteorology." Change prerequisites to "P, 350 and 462 or STAT 361; CR, 441a or 300b." Eff. I 93-94.

563. Change course title to "Advanced Statistical Methods in the Atmospheric Sciences (3)." Eff. I 93-94.

571. Change title to "Synoptic Meteorology." Change prerequisites to "P, 350 and 462 or STAT 361; CR, 441a or 300b." Eff. I 93-94.

Biochemistry (BIOC)

501. Add "Medical Biochemistry (5) P, MCB 501/801, formal admission to the Ph.D./M.D. program, and permission of the course director." Eff. II 92-93.

Cancer Biology (CBIO)

851.+ Change course title to "Molecular Mechanisms of Carcinogenesis." Eff. I 93-94.

Civil Engineering and Engineering Mechanics (CE/EM)

Civil Engineering (CE)

424. Change course description to "Application of principles of hydraulic analysis to the design of hydraulic systems. Applications will vary and include hydropower systems, stilling basins, open channel distribution and collection systems, pipe networks and pumping systems, drainage problems and other topics." Eff. I 93-94.

637. Change course description to "Definition of soil-structure interaction, static and dynamic loading, analytic and computer solutions, two and three dimensional structure foundation combinations. P, 340, 548 or consent of instructor." Eff. I 93-94.

646. Change course description to "Soil behavior under dynamic loads, measurement of dynamic soil properties, soil liquefaction, wave propagation through soils, vibration analysis of shallow and deep foundations, machine foundation design. Case histories and rehabilitation. P, 640." Eff. I 93-94.
645. Change course title and description to "Geoenvironmental Engineering (3) II Interaction of environment and geo-technology; physiochemical properties and mechanism of pollutant transport; effects on soil and foundation behavior and ground water, analytical and numerical modelling, design of geotechnical structures and waste contaminant systems. P, 340, 544 or consent of instructor." Eff. I 93-94.

Communication (COMM)

100. Change number of units from "(1)" to "(2)." Change prerequisites to "P, CR, 102, 103, 104, 105, 106 or 112." Eff. I 93-94.
102. Change course title, description and prerequisites to: "Public Communication (2) I II S Introduction to modes of public communication with an emphasis upon public speaking as a prototype." Eff. I 93-94.
112. Change number of units from "(3)" to "(2)." Add prerequisite, "P or CR 100." Eff. I 93-94.
225. Course number changed from "325" to "225." Add prerequisites, "P or CR 280 and 281 or permission of instructor." Title: "Argumentation." Eff. I 93-94.
280. Change course title and description to: "Laboratory Methods in Communication Research (3) I II S Introduction to laboratory methods in communication research to enable students to understand communication research literature." Eff. I 93-94.
325. Change course number from "325" to "225." Eff. I 93-94.
425. Course expansion from "425" to "425/525." Eff. II 92-93.
525. Add "Scientific Argument in Public Discourse (3) For a description of course topics, see 425. Graduate students are required to complete a controversy-centered literature review. May be convened with 425." Eff. II 92-93.
- 576.- Change course number from "596i" to "576." New listing reads "Field and Observational Methods (3) (Identical with SOC 576)." Eff. I 93-94.
- 596i.- Change course number from "596i" to "576." Eff. I 93-94.

Comparative Cultural and Literary Studies

503. Course number changed from "503a-503b" to "503." New title and description reads "Introduction to Comparative Cultural and Literary Studies (3) I Strategies of interpretation taught through practical critique." Eff. I 93-94.
- 503a-503b.+ Change course number from "503a-503b" to "503." Delete crosslistings with ENGL and EAS. Eff. I 93-94.
- 549a-549b.- Add: "Folklore (3-3) (Identical with ENGL 549a-549b)." Eff. I 93-94.
550. Course expansion from "550" to "550a-550b." See "550a-550b" for new listing. Eff. I 93-94.
- 550a-550b. Course expanded from "550" to "550a-550b." New listing reads "Modern Theories of Cultural Studies (3-3) Historical precedents and contemporary thought in cultural studies from sociological to feminist theory. 550a: from such theorists as Marx, Bakhtin, and Foucault to contemporary postcolonial theorists. 550b: from Frankfurt school to contemporary theorists of political economy." Eff. I 93-94.

Computer Science (C SC)

- 327.+ Change course number from "327" to "372." Eff. I 93-94.
- 342.+ Change semester offering to "I II S." Change prerequisite to "P, 227; MATH 243 or MATH 362." Eff. I 93-94.
- 372.+ Course number changed from "327" to "372." Title: "Comparative Programming Languages." Eff. I 93-94.
576. Change course description to "Design of computers, including instruction set design, processor implementation, pipelining, memory hierarchy, vector processors, and parallel architectures. Emphasis on hardware and software trade-offs. P, 452, ECE 369." Delete "May be convened with 476." Eff. I 93-94.

East Asian Studies (EAS/CHN/JPN)

East Asian Studies (EAS)

- 503b.- Delete "Introduction to Comparative Literature and Literary Theory." Eff. I 93-94.

Japanese Studies (JPN)

- 406a-406b-406c-406d-406e-406f. Change first sentence in course description to "Offered in Japan." Eff. I 93-94.

Economics (ECON)

- 376.- Add "Statistical Inference in Management (3) (Identical with MAP 376)." Eff. I 93-94.

Electrical and Computer Engineering (ECE)

276. Course number changed from "371" to "276." Change prerequisite to "P, 275." Eff. I 93-94.
371. Change course number from "371" to "276." Eff. I 93-94.
- 434.- Add alternate year "1993-94." Delete "May be convened with 534." Eff. I 93-94.
- 534.- Change course title and description to "Advanced Topics in Electronic Materials (3) [Rpt./2] 1994-95 (Identical with MSE 534)." Delete "May be convened with 434." Eff. I 93-94.

English (ENGL)

100. Change course title to "First-Year Composition." Eff. I 93-94.
101. Change course title to "First-Year Composition." Eff. I 93-94.
102. Change title to "First-Year Composition." Add prerequisite, "P, 101." Eff. I 93-94.
- 109H. Change course title to "Advanced First-Year Composition." Eff. I 93-94.
401. Delete "[Rpt./2]." Eff. I 93-94.
404. Delete "[Rpt./2]." Eff. I 93-94.
409. Delete "[Rpt./2]." Eff. I 93-94.
412. Delete "[Rpt./2]." Eff. I 93-94.
- 503a.- Delete "Introduction to Comparative Literature and Literary Theory." Eff. I 93-94.
- 549a-549b.+ Add crosslisting with CCLS (at 500-level only). Eff. I 93-94.
- 596a. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596b. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596c. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596d. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596e. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596f. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596g. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596j. Change repeatability to "[Rpt./4]." Add "P, 506." Eff. I 93-94.
- 596k. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596l. Change repeatability to "[Rpt./4]." Eff. I 93-94.
- 596n. Change repeatability to "[Rpt./3]." Eff. I 93-94.

Entomology (ENTO)

- 496a. Change number of units from "(1)" to "(1-3)." Eff. I 93-94.
- 496d. Add crosslisting with PL S. Eff. II 92-93

- 596a. Change number of units from "(1)" to "(1-3)." Eff. I 93-94.
- 596d. Add crosslisting with PL S. Eff. II 92-93

French and Italian (FREN/ITAL)

Italian (ITAL)

450. Change number of units from "(4)" to "(3)." Eff. I 93-94.

Geological Engineering (G EN)

- 449.+ Add crosslisting with MNE. Eff. I 93-94.
- 549.+ Add crosslisting with MNE. Eff. I 93-94.

Geosciences (GEOS)

- 535.- Change course title to "Advanced Subsurface Hydrology." Eff. I 93-94.
- 536.- Change course title to "Ground Water Resource Evaluation." Eff. I 93-94.

Health-Related Professions (HRP/EXSS/HLTH/MEDT/OSH)

Exercise and Sports Science (EXSS)

380. Change first sentence of course description to "Introductory investigation of principles underlying the production of skilled motor behavior; factors which determine the quality of motor performance, and how humans acquire and perfect motor skills." Eff. I 93-94.
421. Change number of units from "(1)" to "(2)." Eff. I 93-94.
521. Change number of units from "(1)" to "(2)." Eff. I 93-94.

Health Education (HLTH)

430. Change title to "Theory-based Approaches in Health Education/Health Promotion." Course expansion from "430" to "430/530." Eff. I 93-94.
432. Change title to "Program Planning and Education in Health Education/Health Promotion." Change semester offering to "II." Course expansion from "432" to "432/532." Eff. II 93-94.
440. Change title to "Survey of Health Education/Health Promotion Literature." Change semester offering to "I." Change first sentence of course description to "Examination of health education/health promotion literature ..." Course expansion from "440" to "440/540." Eff. I 93-94.
530. Add "Theory-based Approaches in Health Education/Health Promotion (3) I For description of course topics, see 430. Graduate students will be required to write an in-depth research paper. May be convened with 430." Eff. I 93-94.
532. Add "Program Planning and Education in Health Education/Health Promotion (3) II For description of course topics, see 432. Graduate students will have the additional responsibility of writing a mock grant proposal. May be convened with 432." Eff. II 93-94.

540. Survey of Health Education/Health Promotion Literature (3) I For description of course topics, see 440. Graduate students will have additional requirement of completing an in-depth research paper. May be convened with 440." Eff. I 93-94.

History (HIST)

- 370a-370b.+ Add semester offering "I II." Eff. I 93-94.

Hydrology and Water Resources (HWR)

- 407.+ Change title, description and prerequisites as follows: "Subsurface Hydrology (3) I Introduction to groundwater flow through saturated and unsaturated soils and rocks; single and multiple borehole hydraulic tests; stream-aquifer interaction; tracer test flow and transport analysis. Field methods. Fee P, PHYS 116, MATH 125b, CE 321 or AME 331a." Delete crosslisting with SW. Eff. I 93-94.
431. Change first sentence of course description to "Hydrologic and geologic factors controlling the occurrence and dynamics of groundwater on regional and local scales." Add: "Field methods, field trips. Fee." Change instructor to "Kreitler." Eff. I 93-94.
414. Course number changed from "414a" to "414." Eff. I 93-94.
- 414a. Change course number from "414a" to "414." Eff. I 93-94.
503. Change course description to "Dynamics of fluids in porous and fractured media; anisotropy and scale; advective solute transport; consolidation and land subsidence; multiaquifer systems; free surface flow and salt water/fresh-water interfaces. P, MATH 223 or (preferably) 322 or 422a or 422b, CE 321 or AME 331a (Identical with CE 503) Neuman." Eff. I 93-94.
505. Delete alternate year. Change description and prerequisites to "Fundamentals of multiphase flow and transport in the vadose zone. Methods for characterization of hydraulic properties and analytical and numerical solutions for particular cases. P, 407 or 503 or 518 or S W 470." Eff. I 93-94.
508. Change prerequisites to "P, 407 or 503 or 505 or 518 or S W 470." Delete instructor "Sully." Eff. I 93-94.
514. Course number changed from "514a" to "514." Change prerequisite to "P, 519." Change instructor to "Ince." Eff. I 93-94.
- 514a. Change course number from "514a" to "514." Eff. I 93-94.
- 514b. Delete "Field Hydrology (Surface Water)." Eff. I 93-94.
- 517L. Add "Fee." Eff. I 93-94.
518. Change course title to "Survey of Subsurface Hydrology." Begin course description with "Survey of physical ..." Delete "Open to majors only." Change instructor to "Kreitler/Maddock/Yen." Eff. I 93-94.

519. Change course title to "Survey of Surface Water Hydrology." Delete "Open to majors only, or consult department before enrolling." Change prerequisite to "P, CR, CE 321, STAT 361. Change instructor to "Ince/Shuttleworth/Davis." Eff. I 93-94.
521. Change course description to "Quantitative analytical methods in water resources planning and management; introduction to systems analysis, benefit/cost, multi-objective planning and risk assessment." Eff. I 93-94.
531. Add "Fee." Change instructor to "Kreitler." Eff. I 93-94.
- 536.+ Change course title and description to "Ground-Water Resources Evaluation (3) II Hydrologic and geologic techniques for evaluating aquifer systems with case studies of ground-water management on local and aquifer scales, their environmental and societal impacts; case studies of ground-water contamination. Field methods. Field trips. Fee. (Identical with GEOS 536) Kreitler." Eff. I 93-94.
- 535.+ Change course title and description to "Advanced Subsurface Hydrology (3) II Advanced aquifer and well hydraulics; heterogeneity; unsaturated flow; natural and artificial recharge; ground-water and surface-water interaction; mass and heat transport. P, MATH 223 or 322 or 422a or 422b. (Identical with GEOS 535) Yeh." Eff. I 93-94.
550. Add "Fee." Eff. I 93-94.
603. Change course title and description to "Advanced Topics in Subsurface Hydrology (2) II 1994-95 Topics to be selected among (a) geostatistical and stochastic analyses of flow and transport, (b) well hydraulics and pumping test analysis, and (c) flow and transport in fractured rocks. P, 503 or 535. Newman." Eff. I 93-94.

Journalism (JOUR)

- 439.+ Delete crosslisting with PHIL. Eff. I 93-94.

Judaic Studies (JUS)

- 103a-103b. Change course description to "Intensive introduction to basic oral skills, reading and writing to accomplish simple conversation and read easy Hebrew with comprehension." Eff. I 93-94.
- 370a-370b.- Add semester offering "I II." Eff. I 93-94.
377. Change course description to "Evolution of the State of Israel from the rise of Zionism in 19th Century Europe to the present. Emphasis on interactive generative processes and understanding of the interplay between past processes and present socio-political realities." Eff. I 93-94.
- 403a-403b. Change course description to "Instruction to achieve moderate fluency in conversation, reading and writing. P, 103b or qualification by an equivalency exam." Eff. I 93-94.

435. + Course expansion from "435" to "435/535." Add crosslisting with NES. Eff. I 93-94.
- 495g. Add semester offering "II." Add alternate year "1993-94." Eff. I 93-94.
535. + Add "Jewish Mysticism (3) II 1993-94 For description of course topics, see 435. Graduate students will be required to write a paper approximately 75 pages in length. (Identical with NES 535) May be convened with 435." Eff. I 93-94.
- 595f.- Add: "Ancient Near East (3) [Rpt./4] (Identical with NES 595f, which is home)." Eff. I 93-94.
- 595g. Add semester offering "II." Add alternate year "1993-94." Eff. I 93-94.
- 596w. + Add crosslistings with RELI. Eff. I 93-94.

Latin American Studies (LAS)

- 320.- Change course number from "320" to "350." Eff. I 93-94.
- 329.- Delete "Intermediate Grammar and Writing." Eff. I 93-94.
- 350.- Course number changed from "320" to "350." Eff. I 93-94.
- 400.- Delete "Survey of Brazilian Literature (3)." Eff. I 93-94.

Linguistics (LING)

- 402.- Add: "Gender and Language in Japan (3) II 1994-95 (Identical with JPN 402) May be convened with 502. Writing-Emphasis Course." Eff. II 94-95.
- 423a.- Change course number from "423a" to "453." Eff. I 93-94.
- 427.- Change course number from "427" to "457." Eff. I 93-94.
- 453.- Course number changed from "423a" to "453. New listing reads "Theory of Spanish Morphosyntax (3) (Identical with SPAN 453)." Eff. I 93-94.
457. Course number changed from "427" to "457." Eff. I 93-94.
- 502.- Add: "Gender and Language in Japan (3) II 1994-95 (Identical with JPN 502) May be convened with 402." Eff. I 93-94.

Management and Policy (MAP)

330. Change course title to "Human Resources Management (3)." Eff. I 93-94.
376. + Course prefix changed from "MIS" to "MAP." Course number changed from "375" to "376." Add crosslisting with ECON and MKTG. New listing reads "Statistical Inference in Management (3) Further topics in statistical analysis and inference applied to managerial decision making. P, STAT 275. (Identical with ECON 376 and MKTG 376)." Eff. I 93-94.
- 400.- Delete "Quantitative Methods for Administration (3)." Eff. I 93-94.
430. Change course title to "Human Resources Policies." Change prerequisites to "P, 330 and 6 units in human resources major." Eff. I 93-94.

444. Change description and prerequisite to "Application of behavioral science knowledge to group functioning in organizations with emphasis on perspectives from organizational behavior, social psychology, and sociology. P, 305." Eff. I 93-94.

Management Information Systems (MIS)

- 327.- Change course number from "327" to "372." Eff. I 93-94.
- 342.- Change semester offering to "I II S." Eff. I 93-94.
- 372.- Course number changed from "327" to "372." Title: "Comparative Programming Languages." Eff. I 93-94.
375. Change course prefix from "MIS" to "MAP." Change course number from "375" to "376." See MAP 376 for further changes." Eff. I 93-94.
400. + Change course prefix from MIS to PA. Delete crosslisting with MAP. Eff. I 93-94.
- 521a-521b. Change course description to "521a: Simulation concepts, simulation software, modeling of systems, model validation, selecting input probability distributions, random variate generation, statistical analysis of output data and SIMAN simulation language. P, fundamental knowledge of probability and statistics. 521b: Modeling and analyzing complex business systems using advanced simulation and statistical techniques. A semester project is required. P, 521a or equivalent course." Eff. I 93-94.
567. + Change course description to "Introduction to the basic concepts in operations management. Topics covered include project planning, aggregate planning, forecasting, classical inventory models, linear programming and simulation. Open only to graduate students in BPA." Eff. I 93-94.
584. Change title and description to "Combinatorial Optimization and Integer Programming (3) II Introduction to the formation, solution and implementation of integer programming models, for decision making where the choices are discrete. Topics include network flow models, computational complexity, branch-and-bound and cutting-plane methods. P, 422 or 522." Eff. I 93-94.
- 696a. Change course title to "Readings in MIS." Delete prerequisites. Eff. I 93-94.
- 696c. Delete prerequisites. Eff. I 93-94.
- 696d. Change course title to "Research Techniques in MIS." Eff. I 93-94.
- 696e. Change course title to "Recent Advances in MIS." Delete prerequisites. Eff. I 93-94.
- 696g. Delete prerequisites. Eff. I 93-94.

Marketing (MKTG)

- 376.- Add "Statistical Inference in Management (3) (Identical with MAP 376)." Eff. I 93-94.

Materials Science and Engineering (MSE)

434. + Add alternate year "1993-94." Change prerequisites to "P, PHYS 116." Delete "May be convened with 534." Eff. I 93-94.
534. + Change course title and description to "Advanced Topics in Electronic Materials (3) [Rpt./2] 1994-95 Topics to be selected from ferroelectrics, opto-electronics, wave guides, and semiconductor materials. (Identical with ECE 534 and OPTI 534)." Delete "May be convened with 434." Eff. I 93-94.
536. Change course title and description to "Advanced Microstructural Characterization by Transmission Electron Microscopy (3) Theory and applications of high-resolution transmission electron microscopy, nanodiffraction, energy-dispersive x-ray spectroscopy, and electron energy loss spectroscopy for characterizing microstructural and chemical features of solids. 2R, 3L. P, 480, 489." Eff. I 93-94.

Mathematics (MATH)

124. Change course description to "Introduction to calculus with an emphasis on understanding and problem solving. Concepts are presented graphically and numerically as well as algebraically. Elementary functions, their properties and uses in modelling; the key concepts of derivative and definite integral; techniques of differentiation, using the derivative to understand the behavior of functions; applications to optimization problems in physics, biology, and economics. Use of graphing calculators and/or computers." Eff. I 93-94.
- 125a. Change course description to "Introduction to calculus with an emphasis on understanding and problem solving. Concepts are presented graphically and numerically as well as algebraically. Elementary functions, their properties and uses in modelling; the key concepts of derivative and definite integral; techniques of differentiation, using the derivative to understand the behavior of functions; applications to optimization problems in physics, biology and economics. Use of graphing calculators and/or computers.
- 125b. Change course description to "Techniques of symbolic and numerical integration, applications of the definite integral to geometry, physics, economics, and probability; differential equations from a numerical, graphical, and algebraic point of view; modelling using differential equations, approximations by Taylor series." Eff. I 93-94.
330. Change title to "Topics in Geometry." Eff. I 93-94.

375. Change description and prerequisites to "Rounding error and error propagation, roots of single equations, solving linear systems, curve fitting, numerical integration, numerical solution of ordinary differential equations. P, 215 and knowledge of a scientific programming language." Eff. I 93-94.
416. Change title and description to "Second Course in Abstract Algebra (3) II A continuation of 415. Topics may include Galois theory, linear and multilinear algebra, finite fields and coding theory, Polya enumeration. P, 415." Eff. I 93-94.
425. Change title and description to "Real Analysis of One Variable (3) I Continuity and differentiation of functions of one variable. Riemann integration, sequences of functions and uniform convergence. P, 223 and 323." Eff. I 93-94.
426. Change title and description to "Real Analysis of Several Variables (3) II Continuity and differentiation in higher dimensions, curves and surfaces; change of coordinates; theorems of Green, Gauss and Stokes; exact differentials. P, 424." Eff. I 93-94.
430. Change course description to "Topics may include low-dimensional topology; map coloring in the plane, networks (graphs), polyhedra, two-dimensional surfaces and their classification, map coloring on surfaces (Heawood's estimate, Ringel-Young theory), knots and links or projective geometry." Eff. I 93-94.
447. Change description to "Enumeration and construction of arrangements and designs; generating functions; principle of inclusion-exclusion; recurrence relations; a variety of applications." Eff. I 93-94.
464. + Change semester offering to "I II." Change course description and prerequisites to "Probability spaces, random variables, weak law of large numbers, central limit theorem, various discrete and continuous probability distributions. P, 322 or 323." Eff. I 93-94.
516. Change course title to "Second Course in Abstract Algebra." Eff. I 93-94.
525. Change title to "Real Analysis of One Variable." Eff. I 93-94.
526. Change title to "Real Analysis of Several Variables." Eff. I 93-94.
- 534a-534b. Change title and description to "Topology-Geometry (3-3) Point set topology, the fundamental group, calculus on manifolds. Homology, de Rham cohomology, other topics. Examples will be emphasized. P, 415 and 425." Eff. I 93-94.
- 536a-536b. Change title and description to "Algebraic Geometry (3-3) 1994-95 Affine and projective varieties, morphisms and rational maps. Dimension, degree and smoothness. Basic coherent sheaf theory and Cech cohomology. Line bundles, Riemann-Roch theorem. P, 511, 520a, 534a." Eff. I 93-94.

- 537a-537b. Change description and prerequisites to "Surfaces in R3, structure equations, curvature, Gauss-Bonnet theorem, parallel transport, geodesics, calculus of variations, Jacobi fields and conjugate points, topology and curvature; Riemannian geometry, connections, curvature tensor, Riemannian submanifolds and submersions, symmetric spaces, vector bundles, Morse theory, symplectic geometry. P, 534a-534b." Eff. I 93-94.
564. + Change semester offering to "I II." Eff. I 93-94.
- 596a. Change number of units from "(3)" to "(1-3)." Add "[Rpt./12]." Eff. I 93-94.

Media Arts (M AR)

100. Add to course description "Open to M AR majors only, who are freshmen, foreign students, or new transfer students to The University of Arizona." Eff. I 93-94.
110. Change semester offering to "S." Eff. I 93-94.
415. Course number changed from "415a-415b" to "415." New listing reads "Advanced Narrative Media Production (3) II Advanced practice in film or video production, resulting in a completed narrative. University provides most equipment. Students pay lab and other associated costs. 2R, 2S. P, 314 or 315, 313." Eff. II 93-94.
- 415a-415b. Change course number from "415a-415b" to "415." See 415 for new listing. Eff. II 93-94.

Medicine (MED/ANES/F CM/IMED/NEUR/OBG/OPH/PATH/PED/PSYI/RONC/RADI/SURG)

Radiation Oncology (RONC)

- 851.- Change course title to "Molecular Mechanisms of Carcinogenesis." Eff. I 93-94.

Mexican American Studies (MAS)

- 253a-253b.- Course number changed from "303a-303b" to "253a-253b." Eff. I 93-94.
- 303a-303b.- Change course number from "303a-303b" to "253a-253b." Eff. I 93-94.

Microbiology and Immunology (MBIM)

560. Change course title to "Development of the Immune System." Change number of units from "(3)" to "(4)." Change description to "Developmental biology of T cells and B cells. Negative selection (tolerance induction) during the differentiation of T cells and B cells as mediated by T cell receptors and immunoglobulin receptors, respectively. Development of major histocompatibility complex antigen restriction (positive selection) during differentiation of T cells in the thymus. Regulation of positive and negative selection in health and disease (autoimmunity)." Eff. II 93-94.
- 851.- Change course title to "Molecular Mechanisms of Carcinogenesis." Eff. I 93-94.

Mining Engineering (MNE)

- 449.- Add "Mineral Exploration (3) I (Identical with G EN 449) May be convened with 549." Eff. I 93-94.
- 549.- Add "Mineral Exploration (3) I (Identical with G EN 549) May be convened with 449." Eff. I 93-94.

Near Eastern Studies (NES)

- 435.- Add "Jewish Mysticism (3) II 1993-94 (Identical with JUS 435) May be convened with 535." Eff. I 93-94.
- 535.- Add "Jewish Mysticism (3) II 1993-94 (Identical with JUS 535) May be convened with 435." Eff. I 93-94.
- 595f. + Add crosslisting with JUS. Eff. I 93-94.

Nursing (NURS)

281. Change number of units from "(4)" to "(2)." Eff. II 92-93.

Nutrition and Food Science (NFS)

- 180.- Change course number from "180" to "280." Eff. I 93-94.
- 280.- Course number changed from "180" to "280." Title: "Science of Meat and Meat Products (3)." Eff. I 93-94.
468. Course number changed from "468a" to "468." Title: "Food Processing." Eff. I 93-94.
- 468a. Change course number from "468a" to "468." Eff. I 93-94.

Optical Sciences (OPTI)

- 434.- Add alternate year "1993-94." Delete "May be convened with 534." Eff. I 93-94.

- 534.- Change course title and description to "Advanced Topics in Electronic Materials (3) [Rpt./2] 1994-95 (Identical with MSE 534)." Delete "May be convened with 434." Eff. I 93-94.

Pharmacology (PHCL)

- 696a.+ Add "[Rpt./4]." Eff. II 92-93.

Pharmacology and Toxicology (PCOL/TOX)

Pharmacology (PCOL)

- 696a.- Add "[Rpt./4]." Eff. II 92-93.

Toxicology (TOX)

- 696a.- Add "[Rpt./4]." Eff. II 92-93.

Philosophy (PHIL)

- 439.- Delete "Ethics and the News Media (3)." Eff. I 93-94.

Plant Sciences (PL S)

405. Change prerequisites to "P, ECOL 260 and SW 200 (ECOL 302 recommended)." Eff. I 93-94.
408. Change prerequisites to "P, ECOL 260, MCB 181, MCB 182." Eff. I 93-94.
- 496d. Add: "Plant-Insect Interactions (1) [Rpt./5] I II (Identical with ENTO 496d) May be convened with 596d." Eff. II 92-93
505. Change prerequisites to "P, ECOL 260, ECOL 302, CHEM 241, SW 200." Eff. I 93-94.
508. Change prerequisites to "P, ECOL 260, MCB 181, MCB 182." Eff. I 93-94.
515. Change prerequisites to "P, 312 or ECOL 320." Eff. I 93-94.
- 596d. Add: "Plant-Insect Interactions (1) [Rpt./5] I II (Identical with ENTO 596d) May be convened with 496d." Eff. II 92-93

Public Administration and Policy (PA)

400. Course prefix changed from MIS to PA. Title: "Quantitative Methods for Administration." Eff. I 93-94.

Psychology (PSYC)

515. Change title and course description to "Advanced Topics in Cognitive Development (3) Examination of major theories and research findings in cognitive development, with emphasis on infant cognition and conceptual development through childhood. Topics include concept representation and development, naive theories of the world, and knowledge restructuring. P, 313 or permission of instructor." Delete "May be convened with 415." Eff. I 93-94.

Religious Studies (RELI)

- 596w.- Add: "Feminist Approaches to the Bible (3) I (Identical with JUS 596w, which is home)." Eff. I 93-94.

Renewable Natural Resources (RNR/L AR/RA M/WS M/WFSC)

Wildlife and Fisheries Science (WFSC)

- 330.- Course number changed from "430" to "330." Eff. I 93-94.
- 440.- Change course number from "430" to "330." Eff. I 93-94.

Sociology (SOC)

274. Course number changed from "375b" to "274." New listing reads "Social Statistics (3) I II Techniques of statistical description and elementary statistical inference as applied to sociological data. P, 101 and MATH 117R/S." Eff. I 93-94.
275. Course number changed from "375a" to "275." New listing reads: "Social Research Methods (3) I II Problems of conceptualization and measurement of social phenomena; design of research projects; techniques of data collection and analysis. P, 273." Eff. I 93-94.
333. Change course title and description to: "Group Processes (3) Study of processes that form, maintain and dissolve groups, including their objectives, cohesion, norms, role leadership and power structures, communication patterns, interpersonal relations, problem solving, and effectiveness." Eff. I 93-94.
- 375a. Change course number from "375a" to "275." Eff. I 93-94.
- 375b. Change course number from "375b" to "274." Eff. I 93-94.
- 534.- Delete: "Kinship and Social Organization (3)." Eff. I 93-94.
541. Change course description to "Theory and research on the origins of various forms of deviant behavior, and on the consequences of efforts to control them." Eff. I 93-94.

576. + Course number changed from "596i" to "576." New listing reads "Field and Observational Methods (3) Comprehensive and critical examination of the collection, coding, analysis, and presentation of ethnographic/qualitative field data. Original field research required. P, admission to graduate program or departmental approval. (Identical with COMM 576)." Eff. I 93-94.
585. Change course title and description to "Constructing Social Theories (3) The nature and fundamental types of social theories. Formulating theories to guide research across a range of substantive areas. Criteria for choosing among alternative theories." Eff. I 93-94.
- 596i. + Change course number from "596i" to "576." Eff. I 93-94.

Soil and Water Science (SW)

- 407.- Delete "Hydrology of Unsaturated Media." Eff. I 93-94.

Spanish and Portuguese (SPAN/PORT)

Spanish (SPAN)

- 251a-251b. Course number changed from "301a-301b" to "251a-251b." Change last sentence of description to "Credit is allowed for this course or 253a-251b but not both." Eff. I 93-94.
- 253a-253b. + Course number changed from "303a-303b" to "253a-253b." Change last sentence of description to "Students receiving credit for this course will not receive credit for 251a-251b, 329, or 330." Eff. I 93-94.
- 301a-301b. Change course number from "301a-301b" to "251a-251b." Eff. I 93-94.
- 303a-303b. + Change course number from "303a-303b" to "253a-253b." Eff. I 93-94.
310. Change course number from "310" to "340." Eff. I 93-94.
320. + Change course number from "320" to "350." Eff. I 93-94.
323. Change last sentence of description to "Credit is allowed for this course or 325 but not both." Change prerequisite to "P, 253b." Eff. I 93-94.
325. + Course number changed from "329" to "325." Change prerequisite to "P, 251b." Delete crosslisting with LAS. Eff. I 93-94.
329. + Change course number from "329" to "325." Eff. I 93-94.
340. Course number changed from "310" to "340." Change description to "Offered for students who need to perfect pronunciation and for non-native speakers of Spanish." Eff. I 93-94.
350. + Course number changed from "320" to "350." Change prerequisite to "P, 251b." Eff. I 93-94.
- 423a. + Change course number from "423a" to "453." Eff. I 93-94.
427. + Change course number from "427" to "457." Eff. I 93-94.

453. + Course number changed from "423a" to "453." New listing reads "Theory of Spanish Morphosyntax (3) Introduction to current theories of syntax to describe specific phenomena. (Identical with LING 453)." Eff. I 93-94.
457. + Course number changed from "427" to "457." Add prerequisite "P, 451." Eff. I 93-94.

Portuguese (PORT)

400. + Change course number from "400" to "401" and course expansion to "401/501." Delete crosslisting with LAS. Eff. I 93-94.
401. + Course number changed from "400" to "401." New title and description reads "Lusophone Literature to 1900 (3) Overview of literary periods and introduction to the major literary figures of Portugal, Brazil, and the Lusophone African countries (Angola, Mozambique, Cape Verde, Guinea-Bissau, and Porto Principe) from the beginning of their literature to the present. P, 301a-301b. May be convened with 501." Eff. I 93-94.
430. + Course expansion from "430" to "430/530." Eff. I 93-94.
501. + Add: "Lusophone Literature to 1900 (3) For description of course topics, see 401. Graduate-level requirements include a 12-15 page final paper and an oral report. May be convened with 501." Eff. I 93-94.
530. + Add "Brazilian Civilization (3) I 1993-94 For a description of course topics, see 430. Graduate students required to write four research papers and give one lecture on a topic of his/her choice. May be convened with 430." Eff. I 93-94.

Speech and Hearing Sciences (SP H)

107. Change course description to "The role of hearing, language and speech processes in human communication and its disorders is covered through readings, lectures, and observations in laboratories and clinics." Eff. I 93-94.
350. Change course description to "Core features of language are identified and integrated into a model of language that is applicable to first and second language acquisition and language disorders. Topics may include: phonology, morphology, syntax, semantics, and pragmatics." Eff. I 93-94.
451. Change course description to "Principles and processes of first language acquisition described in relation to children's social and cognitive development; first language acquisition processes compared and contrasted to child and adult second language acquisition and language disorders." Eff. I 93-94.
- 471R. Change prerequisite to "P, 350; 370a; 367, senior status advised." Eff. I 93-94.
- 471L. Change description to read "Open to senior majors only. P, 471R or CR." Eff. I 93-94.
- 496a. Change prerequisite to "P, 370a-370b, 483 or CR." Eff. I 93-94.

- 510. Change semester offering to "II." Change course description to "Introduction to counseling the communication handicapped and their families." Eff. I 93-94.
- 571R. Change prerequisite to "P, 350; 370a; 367; CR or subsequent registration in 571L (for majors)." Eff. I 93-94.
- 574. Add prerequisites "P, 471R/L or 571R/L." Eff. II 93-94.
- 582. Change number of units from "(4)" to "(3)." Eff. II 93-94.
- 658a-658b. Change prerequisite to "P, 558a or 558b." Eff. I 93-94.

Statistics (STAT)

- 464.- Change semester offering to "I II." Eff. I 93-94.
- 564.- Change semester offering to "I II." Eff. I 93-94.

Systems & Industrial Engineering (SIE)

- 430. Add: "Engineering Statistics (3) I II Statistical methodology of estimation, testing hypotheses, goodness-of-fit, nonparametric methods and decision theory as it relates to engineering practice. Significant emphasis on the underlying statistical modeling and assumptions. P, 330R, 330L. May be convened with 530." Eff. I 93-94.
- 530. Course expansion from "530" to "430/530." New listing for 530 reads "Engineering Statistics (3) I II For a description of course topics, see 430. Graduate-level requirements include additionally more difficult homework assignments. P, 330R, 330L. May be convened with 430." Eff. I 93-94.

Veterinary Science (V SC)

- 315L.- Course number changed from "415L" to "315L." Eff. I 93-94.
- 315R.- Course number changed from "415R" to "315R." Eff. I 93-94.
- 415L. Change course number from "415L" to "315L." Eff. I 93-94.
- 415R. Change course number from "415R" to "315R." Eff. I 93-94.