

ANNUAL REPORT
COMMITTEE OF ELEVEN
1992-93

Henry L. Ewbank (Chair)
Sandra Ferketich
J. D. Garcia
Moirra Geoffrion
Raphael Gruener
John Law
Donald E. Myers

Lynn Nadel
Danny Siciliano
Andrew Silverman
Sue Sisley
Marlys Witte
Charles F. Zukoski

The Committee followed its practice of meeting alternate Fridays throughout the academic year. The general pattern of asking members of central administration to meet and discuss matters with which they were dealing was followed at most of the meetings. Visits to departments and other units responding to our announcement of availability were concentrated in the Spring semester.

Regent-Appointee John Munger met with the Committee at its Retreat meeting in April, 1992, sharing some of his background and perspectives on the responsibilities of Board membership.

Because of claims made that faculty governance units, specifically this Committee, were "represented" through appointment of a person who happened to be a Committee member, but had not been chosen by the Committee as a representative, action was taken to deny such claims in the future. The Committee will be represented only by persons chosen by the Committee to serve as its liaison or representative with or to other university entities.

Concerns were expressed directly to Vice President Fernandez, during his visit with the Committee in December, that his appointment of a committee to consider reorganization of the College of Arts and Sciences, as well as his appointment of the Advisory Committee on Implementation of Recommendations of the Undergraduate Task Force, had not included faculty members named by representative faculty governance bodies. His practice of talking with Deans and developing his own list of nominees for approval by President Pacheco does not conform to the mandate of S.B. 1106. His decision to install himself as Chair of the Undergraduate Council, and the continuation of that body as a purely appointive body were discussed. While it was in the throes of development, Fernandez brought a proposed revision of Honors Programs and Faculty Teaching Awards for our consideration. Hopes were expressed that there might be improvements in the entire teaching enterprise, rather than simply rewarding a few individuals.

We had the opportunity to talk with Provost Paul Sypherd as he was visiting the campus prior to his assuming this new office. Expectations and perspectives were shared and compared. A second visit with him provided ground for identifying changes of views as he had had the chance to see the university on a day-to-day basis.

Vice President Joel Valdez and Dick Roberts provided a chance to see how the prospective budget was shaping up in the legislative process, and what expected Regent actions would be on tuition and computer fees. The size and shape of necessary cuts was discussed.

Discussion of the CORE philosophy and program with Dean Kenneth Smith, in general and as it has developed in the consideration of Graduate College personnel, was pursued with interest. Questions relating to the legislative allocation of funds based on enrollment to the internal allocation of funds, irrespective of the distribution of students among academic units, were explored. Political implications of the Governor's "Project Slim" to the state universities were explored.

Dean Carla Stoffle informed the Committee of the impact of the library's internal assessments and reorganizations, as well as the implementation of SABIO, the new computer system, on the operations and services of the library. Efforts to stretch the purchasing power of serials allocations through cooperation with nearby libraries were reported.

We were updated on the structural changes in the Office of Student Affairs, implemented by Dr. Saundra Taylor as she responded to the budget cuts mandated by the 1993-94 budget. Threats to the Student Health Service accreditation, demands of minority groups, and other factors had led to significant shifts in personnel and organization. Her revised Mission Statement provided a rationale for the new patterns.

Dr. Pacheco provided a summary of the PAIP process, with its considerable involvement of faculty and staff time. He said that it will provide ground for some necessary decisions concerning where budget cuts and increased allocations will be needed. Changed strategies regarding tuition decisions and interactions with the legislative budget process were commented on.

The Committee sponsored a Forum in April that focused on the multiple organizational and evaluative programs under way on campus during the year. Under the title, "PAIP, CORE, TQM: What's Coming Next?" about fifty faculty members shared information and concerns with considerable enthusiasm.

Nine departments, institutes and/or programs were visited during the Spring semester. Individual and group concerns were received and, where necessary or possible, information was passed on in several directions with the intent of implementing change or relieving discontent.

It is our view that the Committee of Eleven continues to fulfill its constitutional responsibilities of initiating, promoting and stimulating study and action dealing with and looking toward solution of situations and problems of interest and concern to the faculty and the University, and to maintaining and improving the most effective functioning of the university.

Respectfully submitted,

H. L. Ewbank, Chair

STUDENT AFFAIRS POLICY COMMITTEE
A Standing Committee of the Faculty Senate
Dr. David Williams, Chair

September 1, 1993

The Student Affairs Policy Committee submits, as a seconded motion, the following amendment to the grade appeal policy recommendation (underlining indicates changes):

Existing Wording:

The Dean shall convene a committee to review the case. The committee shall consist of five members, two selected from the faculty of the department of the instructor concerned, one from the faculty of another department, and two students provided by the student council of the college concerned.

Motion:

The Dean shall convene a committee to review the case. The committee shall consist of five members, one selected from the faculty of the department of the instructor concerned, two from the faculty of another closely related department or college, and two students provided by the student council of the college concerned.

The Instruction and Curriculum Policy Committee submits as a seconded motion for Faculty Senate approval the following revised Grade Appeal Policy.

Underlined material = revision; shaded material = deletion.

7.08.09 GRADE APPEAL

A student who feels that a grade has been unfairly awarded may appeal. Before a student begins the appeal process, s/he should make a serious effort to resolve the problem by discussing the concerns with the course instructor, stating the reasons for questioning the grade. If the instructor is a graduate student and this interview does not resolve the difficulty, the student should discuss the problem with the person in charge of the course.

A student's protest of a grade must be lodged with the course instructor not later than the end of the fifth week of classes of the first regular semester or summer term in which the grade was awarded. The grade appeal process *per se* begins with the student going to the college dean's office to receive direction and any requisite forms. The student must attest that he/she has informed the instructor that he/she intends to file a grade appeal. This step must be taken within the first five weeks of classes of the first regular semester after the semester or summer terms in which the grade was awarded. Only in exceptional cases shall a grade appeal be processed during a summer session. The dean of the college offering the course in which the course was offered shall determine if the case is exceptional and warrants immediate review. The dean shall also have the authority to extend the time limits of the appeal process deadlines for the steps in a grade appeal, but in no case only in extraordinary circumstances shall the appeal process extend beyond the end of the first regular semester following the awarding of the grade without the consent of all parties involved. The dean's decision on whether or not the time constraints have been satisfied shall be final.

A student who questions a grade should first confer with the instructor, stating the evidence and reasons for questioning the grade. If the instructor is a graduate assistant and this interview does not resolve the difficulty, the student should immediately take the problem to the person in charge of the course. Having carefully formulated the nature of the appeal in writing, the student shall present the written appeal to the instructor. The student shall also present the written appeal to the department office for verification of the date of contact. These steps must also be taken within the first five weeks of classes of the first regular semester after the semester or summer terms in which the grade was awarded. If the instructor or the person in charge of the course is unavailable when the student initially attempts to make contact, the student should shall request the department head or his or her representative to verify the initial date of contact. Within two weeks from the initial contact date of receipt of the student's written statement, the instructor and/or the person in charge of the course should review the matter with the student, shall respond in writing, explaining the grading procedure and showing how the grade in question was determined as well as other issues raised in the student's statement.

If the instructor is not available during the two weeks following the date of initial contact or does not resolve the matter to the student's satisfaction within the two-week period, the student may appeal in writing within one week shall within one week thereafter appeal in writing to the head of the department offering the course through which the course was offered. After considering the information obtained from the student and the instructor student's written statement and the instructor's written statement, and within two weeks of receipt of the student's appeal and after conferring with either or both as necessary, the department head shall inform the instructor and the student whether or not he or she recommends a change in grade. An

instructor may refuse to accept such a recommendation to change a grade. If a change in grade is recommended, the instructor may refuse to accept the recommendation, and the department head is not authorized to change such a grade. The department head shall not have the authority to change the grade.

If a department head does not act within the two-week period, or if the instructor's decision is not acceptable to a student, the student may appeal in writing within one week to the dean of the college concerned. If the student wishes to pursue the matter further or if the department head does not act within the two-week period, the student shall within one week thereafter appeal in writing to the dean of the college concerned. The dean shall convene a committee to review the case. The committee shall consist of five members, two faculty members from the instructor's department two selected from the faculty of the department of the instructor concerned, one other faculty member one from the faculty of another department, and two students provided by the student council of the college concerned. If the college does not have a student council, the ASUA shall appoint the student members, selecting two full-time upper-division undergraduates or graduate students undergraduate students for a grade appeal by an undergraduate student or two full-time graduate students for a grade appeal by a graduate student. All student members must be in good academic standing.

Within a structure provided by the dean, the committee shall design its own rules of operation. The student and instructor shall represent themselves. The committee may, or may not, choose (a) to meet separately with the student, the instructor, and the department head, (b) to request each party to submit a brief written summary statement of the issues, and/or (c) interview other persons who may have relevant information. The committee shall consider all aspects of the case pertaining to the grade determination in rendering its recommendation. If feasible, the committee should meet with the student and the instructor together in an attempt to resolve the differences. At the conclusion of its work, the committee shall make a written report of its finding containing its recommendations and provide copies to the student concerned, the instructor, the department head, and the dean.

The work of the committee and final action by the dean shall occur within four weeks of the dean's receipt of the student's written appeal. The appointment, meeting, and recommendation of the committee and the final action of the dean shall be made within four weeks of the dean's receipt of the student's written appeal. Final action on the case shall be taken by the dean only after full consideration of the committee's recommendation. The dean shall have the authority to change the grade and the registrar shall accept the dean's judgment. The department head, the instructor, and the student shall be notified in writing of the outcome of the dean's judgment.

Formal appeal begins when the student in writing refers his or her case to the head of the department. If desired, the student may request written verification of receipt of his or her letters of appeal from instructor, department head, and dean.

Summary of Grade Appeal Process

- Step 1: Student informs instructor of his/her intent to file a grade appeal.
- Step 2: Student obtains direction and any requisite forms from dean's office.
- Step 3: Student submits written statement to course instructor and instructor's department.
- Step 4: Instructor responds in writing to student's statement.
- Step 5: Student submits written statement and instructor's written response to department head.
- Step 6: Department head responds in writing to student and instructor.
- Step 7: Student submits written statement, and written responses from the instructor and department head to college dean.
- Step 8: College dean convenes committee which hears the grade appeal.
- Step 9: Grade appeal committee provides copies of their recommendations to the student, instructor, department head, and college dean.
- Step 10: College dean rules on the appeal and notifies the student, instructor, and department head, in writing of his/her ruling.

Maximum Time Table for Grade Appeal

Prior to week 5	Steps 1, 2, and 3
Prior to week 7	Step 4
Prior to week 8	Step 5
Prior to week 10	Step 6
Prior to week 11	Step 7
Prior to week 15	Steps 8, 9 and 10

FACULTY BUDGET AND STRATEGIC PLANNING COMMITTEE

Annual Report, 1992-93

SUMMARY

The Committee met fifteen times between September 1992 and August 1993. At the first meeting of the year, Chair of the Faculty J.D. Garcia conducted the election for the Committee Chair. The Committee has met with Provost P. Sypherd, V. Pres. A. Beigel, V. Pres. J. Valdez, Budget Officer R. Roberts, Dean of Libraries C. Stoffle and Director of University Telecommunications P. Loendorf.

The Committee dealt with a number of issues including the following: modifications to the Reorganization Procedures, the Copyright Center proposal, the University Telecommunications Rate proposal report and the Civil Engineering-Chemical Engineering Reorganization proposal report. The Committee also considered proposals to obtain reduced airfares by the use of agreements with airlines. The Committee constructed a transition scheme to provide for the change from all appointed members on the Committee to a mix of appointed and elected members. The Committee has reported to the Faculty Senate on a number of these issues.

Committee Membership

Robert Dvorak, College of Architecture
Virginia Horak, College of Education
Dennis Ray, Plant Sciences
Danny Siciliano, ASUA

Carol Elliott, College of Law
Vice-Chair
Stanley Reynolds, Economics
Terry Valenzuela, Surgery

Donald E. Myers, Mathematics
Chair

REPORT

The Committee worked effectively by creating subcommittees to work on specific issues to accomplish the following:

Copyright Center

In December 1991, the Senior Vice-President for Business Affairs submitted a proposal to the President's Council to establish a University Copyright Clearance Center. This proposal was advanced in order to address problems that faculty and students were having in their efforts to obtain copies of copyrighted materials. The proposal was also aimed at improving compliance with copyright law. This proposal was brought to the Faculty Senate in Spring 1993. The FBSPC recommended that the proposed Center be rejected, because current arrangements are adequate for handling copyright clearances of printed materials. The Faculty Senate voted to approve the recommendation of the FBSPC.

Telecommunications Rate Restructuring

In the summer of 1992, Vice Provost Holly Smith appointed a committee to review possible

methodologies for recovering costs associate with providing data and telephone services on campus. This committee was chaired by Dean Carla Stoffle. Following completion of their work the FBSPC was asked to review the report and make comments. After meeting with Dean Stoffle and Director Loendorf the Committee submitted its appraisal to Vice Provost Smith, this was also communicated to the Senate.

Reorganization Procedures

In the spring of 1992 the FBSPC was asked to consider two different proposals for reorganization of departments. The Committee subsequently submitted a plan which was adopted by the Senate in April of 1992. Following the experience of the Civil Engineering reorganization review committee the Committee proposed changes in the procedures. These were adopted by the Senate in May of 1993.

Civil Engineering-Chemical Engineering Reorganization

In the fall of 1992 President Pacheco forwarded to the Committee the proposal for reorganizing these two departments. The Committee selected a member to serve on the Advisory Committee as per the Reorganization Procedures. The FBSPC subsequently concurred in the report of the Advisory Committee.

Reduced Airfares

In the fall of 1992 President Pacheco asked the Senate to consider a resolution passed by the Faculty Senate at ASU. This resolution asked the University administration to consider agreements with airlines to obtain reduced airfares when traveling on university business. The FBSPC was asked to consider the matter and make a recommendation to the Senate. In addition the Regents had established a committee chaired by Senior Vice President J. Valdez to consider the matter and make recommendations. The FBSPC met with Vice President Valdez. Since the committee chaired by Vice President Valdez recommended that no further action be taken, the FBSPC did not submit recommendations to the Senate.

CORE and other committees

Several members of the Committee participated in CORE Management by Planning training sessions. Several members served on PAIP committees as well as the ad hoc committees that established the PAIP process. Members also served on the "Nadel" and "Gottfredson" committees. The FBSPC also prepared a draft of a University Mission Statement in connection with an all day meeting of the President's Cabinet and the "Nadel" committee. The FBSPC recommended a member to serve as a CORE facilitator, this recommendation was accepted by the President.

Transition Scheme

In the fall of 1991 the Committee proposed to the Senate a change in the membership of the Committee, providing for the election at large of six members. This was adopted by the Senate but the first election was not held until spring, 1993. In order to facilitate the transition from an all appointed committee, the FBSPC recommended the designation of certain members as "elected" in order to phase in the change to elected members.

ROLE OF THE COMMITTEE

The FBSPC was originally established to provide a mechanism for the Faculty to provide

advice and recommendations on budgetary matters. In previous years the FBSPC has been asked to make recommendations on proposed Decision Packages and on the draft of the budget to be presented to the Regents.

The role of the Committee is now unique in that a significant fraction of the FBSPC is elected at large, at the same time the FBSPC regularly reports to the Faculty Senate and responds to requests from the Faculty Senate. The FBSPC has a responsibility to the faculty at large to protect faculty interests in the review and approval of budgets. The Committee should be an integral part of the University budget and strategic planning process.

The Committee's involvement in the process must include sufficient and timely access to budgetary and planning data. This is essential to enable the FBSPC to reflect faculty interests and to significantly influence the final product. The Committee re-affirms its willingness to participate in this process at much earlier junctures than in the past, to strengthen the role of faculty governance in the management of the University.

Committee Structure for Reorganizations

The Board of Regents has a mandated procedure for reorganizations which do involve release of tenured faculty (ABOR Policy Manual, 6-201). It calls for the President to submit the reorganization proposal to the Faculty Senate and ask for a review committee to be constituted.

We have selected a structure for the Senate's review committee. The procedure to be followed by the committee is very similar to the Senate-approved procedure for reorganizations not involving release of tenured faculty--but the ABOR policy shows a few differences.

The following committee selection procedure will be utilized:

The Chair of the Faculty, with the consent of the Senate Executive Committee, will constitute a committee as follows:

- a chair of the committee, selected from those faculty holding elected positions
- one (1) faculty member from the program to be terminated (elected by the program)
- one (1) member from the college in which that unit resides (selected with advice of Senators from the college)
- one (1) member from the Senate Budget Committee or from the Academic Personnel Policy Committee
- two (2) Senators or other faculty not from the college affected
- two (2) students, selected by ASUA, one of whom is from the affected unit if there are any
- one (1) staff member, selected by the Staff Advisory Council, or an academic professional

When exceptions to these specifications are necessary, the Senate Executive Committee must approve them.

This committee will then conduct the review and report to the President within ninety (90) days, following the procedures outlined in the Arizona Board of Regents Policy Manual.

FACULTY SENATE AND GENERAL FACULTY STANDING COMMITTEES, 1993-94

Academic Personnel Policy Committee

Anne E. Atwater, Chair, Exercise and Sport Sciences
Lawrence Aleamoni, Educational Foundations
Nathan Buras, Hydrology and Water Resources
Alberta Charney, Economic and Business Research
Diane Eisinger, ASUA Representative
Gerald Monsman, Department of English
Ed Williams, Political Science
Kenneth Young, Atmospheric Sciences
Consultant: Dipankar Chakravarti,
Past Chair, Marketing

Instruction and Curriculum Policy Committee

Billie Jo Inman, Chair, Department of English
Sue Brichler, ASUA Representative
Eustace Dereniak, Optical Sciences
Michael Hammond, Linguistics
Fredrick F. Hill, Electrical and Computer Engineering
Lynn Joens, Veterinary Sciences
John D. McCullen, Physics
L. Claire Parsons, College of Nursing

Research Policy Committee

Marlys Witte, Chair, Fall 1993, Surgery
Bruce Barrett, Chair, Spring 1994, Physics
Terry Badger, College of Nursing
John Law, Biochemistry
Keith McElroy, Art
Fulvio Melia, Physics
Glenn Songer, Veterinary Sciences
Eric Weber, ASUA Representative

Student Affairs Policy Committee

David Williams, Chair, Communication
William Bickel, Physics
(Late resignation; will be replaced)
Gale Manke, College of Nursing
Marilyn McCarthy, Health Sciences Library
Sheila Pitt, Art
Jon Shoemaker, ASUA Representative
Justin Williams, ASUA Representative
Stephen Wright, Physiology

Faculty Senate Executive Committee

Malcolm Zwolinski, Chair, Senate Presiding Officer
Terence Burke, Office of the President
J. D. Garcia, Chairman of the Faculty
Derek Lewis, President, ASUA
Elizabeth Roemer, Secretary of the Faculty
Robert Sankey, Faculty Senate Parliamentarian
Andrew Silverman, Elected Rep. of the Faculty Senate
Invited Guests: Chairs of Faculty Senate Standing
Committees, the Budget and Strategic Planning Committee,
and the Committee of Eleven

Committee of Eleven

Donald Myers, Chair, Mathematics
Wendy Anderson, ASUA
Dipankar Chakravarti, Marketing
Henry L. Ewbank, Communication
Moiria Geoffrion, Art
J. D. Garcia, Chair of Faculty
Raphael Gruener, Physiology
John Law, Biochemistry
Derek Lewis, ASUA President
Andrew Silverman, Law
Marlys Witte, Surgery
Charles F. Zukoski, Surgery
(Resignation; will be replaced)

Committee on Academic Freedom & Tenure

Henry L. Ewbank, Chair, Communication
Ellen Altman, Library Science
Marie Chan, East Asian Studies
Terence Connolly, Management and Policy
George Gutsche, Russian & Slavic Lang.
Maria Segura Hoopes, Main Library
Charles F. Hutchinson, Arid Lands
Inge Kohn, Humanities Program
Gale E. Manke, College of Nursing
Alice Paul, Teaching & Teacher Educa.
Mark A. Smith, Chemistry
Marc Tischler, Biochemistry

Committee on Conciliation

(Chair not yet elected)
Shirin Antia, Special Educa. & Rehab.
Harris Bernstein, Microbiology (Temp.)
Karl Flessa, Geosciences (Temp.)
Rose M. Gerber, Nursing (Temp.)
Fredrick Hill, Elec. & Computer Engrg.
Phil Keller, Chemistry
Polin Lei, Health Sciences Library
Keith McElroy, Art
Emory Sekaquaptewa, BARA

University Committee on Ethics and Commitment

Dennis Larson, Chair, Fall only, Ag. Biosys. Engrg.
Kenneth V. Iserson, Chair, Spring only, Surgery
Carrie Jo Braden, Nursing
Vaughn E. Huff, Counseling and Testing
Frank Low, Steward Observatory
Lois Olsrud, Main Library

Committee on Committees

(Chair not yet elected)
Norman Austin, Classics
William P. Hubbard, Lunar and Planetary Lab
Carol Larson, Teaching and Teacher Education
Alice Longman, Nursing
Carlos Velez-Ibanez, Bureau Applied Rsch. Anthro.
Susan Weisband, Management Information Systems

Committee on Elections

(Chair not yet elected)
Harris Bernstein, Microbiology and Immunology
Donald DeYoung, University Animal Care
Mary Maher, Theatre Arts

Committee on Faculty Membership

J. D. Garcia, Chair, Chairman of the Faculty
Kenneth E. Foster, Arid Lands Studies
Billie Jo Inman, English
Elizabeth Roemer, Lunar and Planetary Lab
Paul S. Sypherd, Provost

Faculty Report on

**The Proposed University
of Arizona**

RESEARCH PARK

July 14, 1993

Prepared by the Subcommittee on Research Parks

Prof. Harris Bernstein (Microbiology)
Prof. Robert Dvorak (Architecture)
Prof. Fulvio Melia (Physics & Astronomy), Chair
Prof. Stanley Reynolds (Economics)

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1. Description of the Proposal and Purpose of this Report

The University of Arizona is proposing to purchase the IBM Site just outside of the Tucson Metropolitan Area in order to establish a university related research park. The tentative plan is to lease back a fraction (between 30 and 50%) of the facility to IBM for a period of at least 20 years and to lease another fraction (between 20 and 30%) to another tenant (or tenants), such as Hughes, for periods of 10 or more years. The remaining space would be made available to the University of Arizona during the leasing period.

The charge to this subcommittee, comprising members from both the Senate Budget and Strategic Planning Committee and the Research Policy Committee, is to provide the University, through the Faculty Senate, advice on this development, particularly concerning whether the proposed park will be beneficial or detrimental to our teaching, research, and service missions as a land grant research university. A concern that the faculty may have is whether such a development may become a resource drain to academic endeavors, or a diversion of energies from the central teaching and research activities.

2. Report Summary

In principle, the idea of a Research Park has merit in that a planned technology development of this kind can promote university-industry relations, foster innovative techniques, and facilitate the transfer of technology from Academe to the private sector. In practice, many of these enterprises fail, either because of poor initial planning, or bad management, or both. In some cases, the financial strain on the University can have a negative impact on its teaching and research activities by diverting funds away from these more traditional academic endeavors. But when a Research Park works, the results can be spectacular. Often, success or failure pivots on whether the initial concept for the park identifies a focused

area of strength in the University and its environment, and on whether the management team can establish a good track record of commercial project achievements.

The proposed University of Arizona Research Park at the Tucson IBM site does not, however, fall easily into any one particular category. The main reason for this is that the plan calls for this development to be revenue neutral, in the sense that the actual acquisition of the property will not occur unless leasing arrangements can be guaranteed to cover the entire debt recovery expense. IBM, the current owner, is committed to occupying as much as 50% of the property for at least the next 20 years, during which time the company will be bound by a long term lease. It is anticipated that another 20 to 30% of the site would be leased out to tenants such as Hughes. As such, the proposed Research Park could be a good business venture, irrespective of whether or not the faculty would participate in the expected collaborative R & D efforts at the facility.

The committee is generally impressed with the potential for success of this venture, though its enthusiasm is tempered by a glaring weakness in the proposal. Negotiations between the University and IBM have been progressing for some time, but there is as yet no well-thought out management plan, particularly with regard to maintenance and the "scientific" structure and administration of the facility. Major unforeseen expenses for operations and maintenance may add up to a substantial yearly amount that could undermine the proposed revenue neutral arrangement. It is essential that a management board be established with the inclusion of expertise in the form of an individual who has been head or vice head of a successful park of this kind elsewhere, and the inclusion of adequate faculty representation to oversee such things as the handling of grants.

3. Faculty Interest in the Establishment of a Research Park

An informal survey of several department heads and other interested individuals with regard to the establishment of a research park suggests an overall positive sentiment among

the faculty, but with some cautionary advice. It is, of course, difficult for many to comment in detail on this development without knowing more about the project, but in general, the respondents felt that either of the two research park "models"—those that act as incubators for small businesses that spin off from the university or have strong university-industry interactions, and those that are off-campus locations for university research facilities—could be beneficial to the faculty.

For example, Optical Sciences is currently renting space off campus for one of its major research programs and has another research group located under the stands of the basketball arena. Several other university research groups, such as Material Sciences, have also rented space off campus. It is felt that if all of these programs could be brought together in one university owned research park, it would facilitate logistics such as transportation and collaborative research interactions.

The benefits to individual departments would depend on what sort of tenants were found. If some of the high-tech industries attracted to the site contain physics-related business, then it's conceivable that the physics and other physics-oriented departments (e.g., Astronomy and LPL) could take advantage of summer and permanent employment possibilities for our students. For large enough audiences, these departments could also provide some educational opportunities for employees via off-campus or tele-courses.

Optical Sciences has a strong outreach effort to work with small, local optics companies. This has resulted in the formation of spin-off industries and in attracting new companies to move to Tucson. Establishing a Research Park would provide a central location for these entities, which would allow easier networking among the various components as well as facilitating university-industry interactions.

In some departments, it is not unusual for students to do their thesis research work in local companies. In addition, some scientists and engineers working in nearby industries teach some of our courses (e.g., in Optical Sciences). A research park can help centralize these activities.

• In the field of computer science, there is a fledgling software industry in Southern

Arizona that is poised for growth. These companies hire many of our graduates, more and more of whom wish to stay in this region. Similar growth opportunities exist in other fields, such as Biotechnology.

Some of the respondents were familiar with the Research Parks established elsewhere, such as in Palo Alto and North Carolina, but here the reviews are mixed. In these particular cases, both have proved extremely beneficial to their regions and local universities. In fact, neither would have become successful were it not for the high-quality universities nearby. Both provide a supply of trained employees and continuing education for them. It is felt by some that we have an opportunity in Tucson to do something similar, since the low cost of living and high quality of life, coupled with largely untapped use of many of the resources of this institution, make it possible that a research park could be a major success. Having a research park physically closer to the University of Arizona than the IBM plant would be ideal, but the North Carolina experience indicates that it is not necessary.

On the minus side, others caution that Research parks affiliated with universities have not performed well on the whole. While there are parks that have done well, most of those that began operation in the 1980's have ended up being a resource drain on their universities. The parks that have succeeded have usually had one or both of the following: (1) a focus on a particular area, such as Biotechnology, for which there is university research expertise and a good prospect of attracting and financing new business ventures, (2) a long enough period of operation for the establishment of a good management team and a good track record of commercial project successes.

There is a feeling that if the proposed research park is viewed primarily as a business venture for the university, then there may be questions about the expertise of the University of Arizona managers. First, there may be some downside risks that the University management does not anticipate. Second, even if the park does well, would the university be able to capitalize on its success? For example, if land value in the area rises significantly, would university managers sell at the appropriate time (university managers probably have less experience and expertise in property investment than many private investors) or would

they even be able to sell (say, because of constraints imposed by the regents)?

4. Management Issues

The concerns expressed at the end of the previous section form part of a broader issue—the management of the research park, both from a business perspective, and from an educational/research standpoint—that this committee feels is presently the least thought out component of the proposed plan. However, the committee does not believe that this inadequacy is a “show stopper” since a management board, consisting of representatives from at least the administrative and faculty divisions, and preferably an individual with experience managing a similar organization elsewhere, can and should be established before the negotiations for the purchase of the IBM site are finalized.

It has been emphasized by both the Vice President of Research and the Senior Vice President for Business Affairs that this purchase will only proceed as long as the Research Park can be made revenue neutral. Unlike the Arizona State University Research Park, which is currently spending roughly \$1.7M per year of its tuition dollars to retire its debt, the planned purchase here would be made with the understanding that the revenue from leasing the property to IBM (for 20 years) and, e.g., Hughes, would provide the estimated \$10M per year required to cover the debt service over the 20 year lifetime of the loan. Assurances have been provided that these leasing terms will be part of the negotiation process.

From a purely business point of view, this acquisition would thus seem to be very sound, since no educational/research money would be diverted from the main campus to the Research Park. However, it does not appear that a complete maintenance plan has yet been fleshed out. For example, the physical plant is quite sophisticated and complex, and it provides a centralized service to the whole site. Although an arrangement to service the different tenants and 3M (which owns a portion of the site and would presumably continue

to operate more or less in its current direction) can be worked out, the management, and especially the cost, of this landlord arrangement have not been addressed. Of particular concern to the committee is the fact that the personnel running the physical plant constitute a sizeable staff and need to be well trained. Will these professionals stay on after the purchase? If not, what arrangements will be made to replace them? And if they do stay on, who will cover their expenses? In principle the rental cost to the tenants should cover all of these extra charges, but without detailed knowledge of how high the physical plant costs will be, it is difficult to see how the final leasing conditions can be arranged during the purchase negotiations. In addition, the committee is concerned that there may be "hidden" costs that would undermine the revenue neutral constraint. For example, IBM is currently subsidizing the employee meal expenses at the cafeteria on site. This subsidy represents roughly 50% (or about \$2-3 per meal) of each employee. Will IBM continue this subsidy once ownership of the cafeteria is transferred to the University?

The Faculty's interest in these concerns is obvious. Any funds that would need to be diverted to the Research Park to cover management expenses would necessarily have to impact negatively on the teaching and research missions on the main campus, a problem that ASU is now facing. But the issue of fund transfer is not necessarily just limited to the question of maintenance. The committee would have liked to have seen the nucleus of a scientific operations plan being developed, in coordination with the overall management of the Research Park. It has been suggested that the park would be run as a non-profit corporation. Will it be possible, therefore, for those University researchers based at the site to channel their grants, including overhead expenses, to that facility, rather than through the current pipelines at the University? The committee is aware of at least one such park—BIRL, affiliated with Northwestern University—where some investigators have in fact diverted their grants away from their departments to the new facility. Grants do more than support the investigators' work itself, since overhead can contribute to the general educational functions of certain departments, such as providing funds for colloquia and supporting visiting scholars. Having said this, the committee feels that it is more likely

that “new” grants would be generated as a result of collaborative work conducted at the site, minimizing the risk to the current support. Nonetheless, it is clear that an operational model needs to be fleshed out as soon as possible.

On a more positive note, much of the procedure and many of the logistics of a Research Park arrangement are already in effect, though in a less formal way. There are already 20 or so spinoff companies owned by faculty with University participation. These have grants going directly to them, which then subcontract back to the University. Some of these groups have expressed an interest in moving to the site, should the deal go through. The administration sees the main difference as being that the University would then simply augment this arrangement by becoming a landlord that leases space to the companies. Other contractual structures, such as the ownership of Patents, etc., would remain as they are.

Looking at projections optimistically, the economic development associated with the Research Park could in fact alleviate some of the current budget problems. If instead of a non-profit organization, the Research Park is able to generate excess funds, then it is conceivable that some (or all) of this money could be rolled back into the academic programs.

The strongest recommendation made in this report is that the administration should assemble, as quickly as possible, a management team that includes outside expertise in running a successful Research Park—perhaps involving an individual who has acted as a vice head, or even head, of such an organization elsewhere—and faculty representation to oversee the ongoing academic and research aspects of this facility.

5. Association of University Related Research Parks

Some external support, primarily in the form of a broad base of experience and management ideas, is available from the Association of University Related Research Parks, of

which the University of Arizona would presumably become a member should this Research Park development proceed as planned. The AURRP is a non-profit international organization formed in 1986 in response to growing interest in research and development activities designed to promote university-industry relations, to foster innovation, and to facilitate technology transfer from Academe to the private sector. Since its inception, AURRP has continued to act as a focal point for the dissemination of information relative to the creation, development, marketing and management of university-related research parks. With its 285 members, the Association provides an international network of research park experts and service providers for the research park industry and the technology development activities these parks support. Among the services a member of AURRP has access to are: consultant listings, centralized information and reference services, clearinghouse for career opportunities, and an extensive database for member parks and for their qualified tenants.

More extensive literature describing the Association is provided in Appendix A.

6. Proposed Purchase of the IBM Site

A. Financial Aspects

The administration has provided assurances that the deal to purchase the IBM site will not go through unless leasing arrangements are guaranteed to cover the financing expenses for as long as it takes to recover the debt. This revenue neutral arrangement would protect the University from having to divert any of its funds away from its teaching and research activities. IBM is committed to staying at the site for at least 20 years (see C. below) and would account for the bulk of the estimated \$10M per year required to run the facility (based on the reported asking price of approximately \$135M). It is expected that Hughes would be interested in leasing a fraction of the Research Park for at least 10 years, with immediate needs of 200,000 square feet by September 1, 1993. Even if this is seen as just a business venture, the arrangement appears to be attractive, since the IBM site represents

a good endowment, with more than 1.5 million square feet of space and > 1300 acres of real estate that might conceivably form the basis for the future expansion of the Pima educational facilities (see 7. below).

B. Site Description and Space Allocation

A site plan of the Tucson IBM facility is provided in Appendix B. Appendix C contains a significantly more detailed description of the area as a whole and each of the buildings individually. Although manufacturing was once an integral part of the plant, the site is now (and is expected to remain) strictly an R & D and a storage facility. As such, Buildings 20 and 30 would be available for these purposes. Buildings 21, 31, 20, and 30 already have at least some laboratory space, whereas the engineering buildings 41, 61, 71, 40, and 60 are almost completely laboratory space. The cafeteria (building 51) cannot be converted into rentable space, but the warehouse buildings 23 and 21 can be used for R&D purposes.

The minimum core space allocation that IBM would need to keep is comprised of buildings 40 (which now houses its computer center that would be very expensive to move), 41 (its data processing test lab), 61 (which contains chemistry labs) and 31. The likely configuration for the Hughes rental would be buildings 20, 30, and 60.

Under this leasing arrangement, the University of Arizona would therefore have access to buildings 71 (which contains mechanical labs that neither IBM nor Hughes are interested in), and 21 and 23, which are now used mostly as storage space. Although the committee does not have sufficient details to judge the level of expense, it is nonetheless clear that funds would need to be used in order to convert some or all of the University's space to usable R & D labs. This is presumably one of the questions that the management board would address (see 4. above).

C. Distance

The committee considers the fact that the IBM site is far from the main campus to be a drawback. If this is to be purely a business proposition, then the remoteness is, of course,

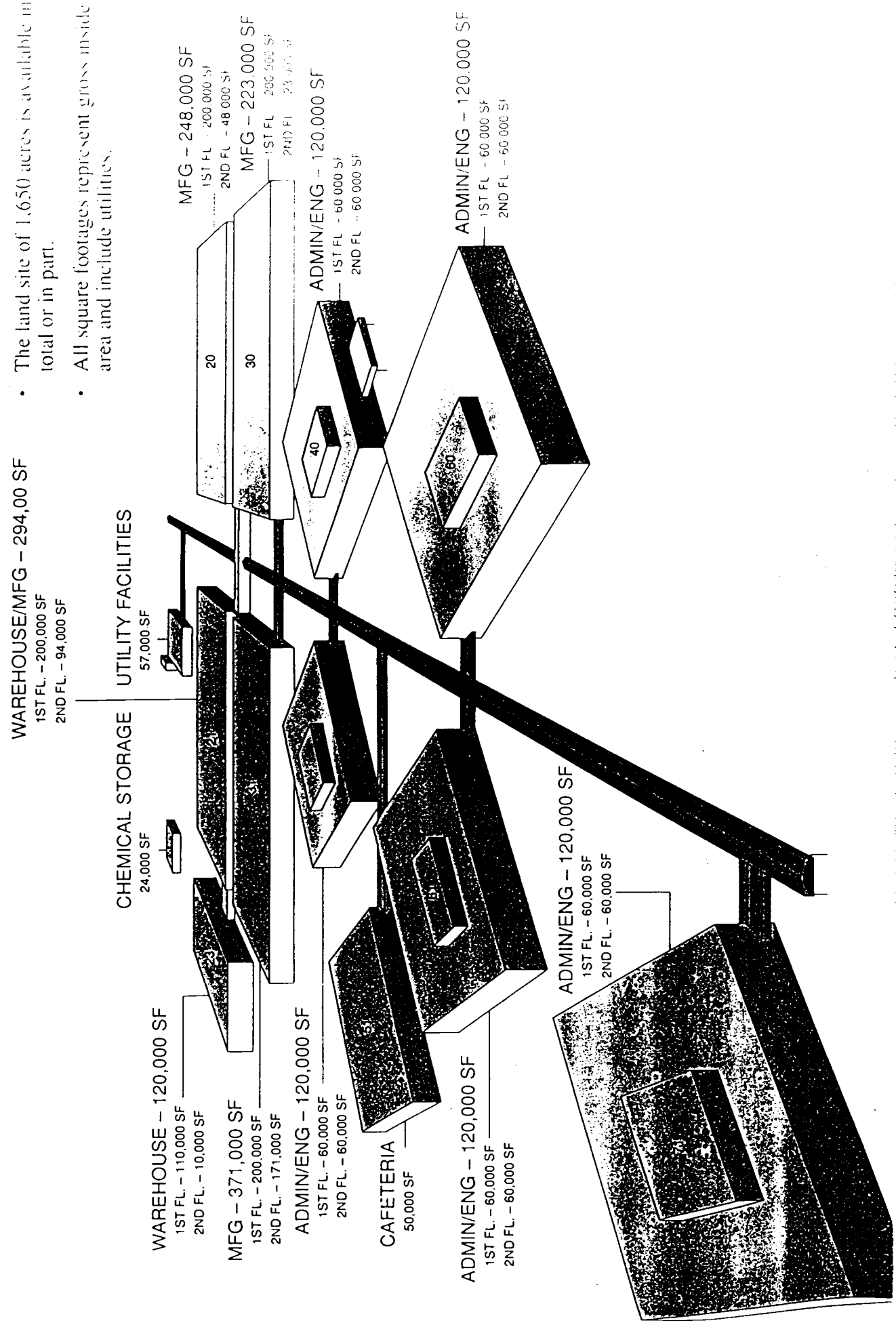
a moot point. The fear is that individuals might tend to work either on the main campus or at the Research Park, but perhaps not both, and that would lead to a polarization of the faculty. Some evidence for this was provided by individuals the committee spoke to at the facility itself. Although collaborative work between University researchers and personnel could have been carried out at the site in the past, the interaction was in fact minimal, even though the equipment and other facilities there have been at the leading edge of technology. Reasons other than distance may have been responsible for this, yet it was likely a contributor.

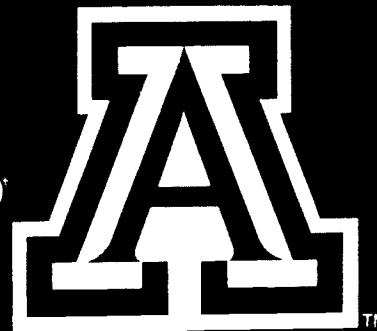
7. Possible Future Use as an Educational Facility

Although not directly coupled to the immediate development of a Research Park, some mention has been made of the possible future use of at least part of the IBM site for the establishment of a second campus there. The > 1300 acres of land (to be compared with the 345 acre U of A campus) certainly appears to be adequate, and may even be more suitable for this purpose than for the Research Park itself. This potential dual benefit makes the acquisition of the property even more attractive in the long run, but as with the case of the Research Park, the committee would have preferred to have seen a more detailed model for how this would actually work. Would individual departments move out there, or would it be developed as a community college along the lines of the current Pima college to provide an outlet for basic education? The overall enthusiasm of the committee for such a joint development is necessarily tempered in view of the still undeveloped long-range proposals.

Site Plan IBM Tucson

- The entire facility is for sale or lease.
- Individual buildings are available separately in total or in part.
- The land site of 1,650 acres is available in total or in part.
- All square footages represent gross inside area and include utilities.





CURRICULUM

Vol. 15 No. 5 The University of Arizona August 30, 1993

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 September 13, 1993.

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(for information)

I. NOTICES (for approval)

- A. *Revision of policy for determination of catalog in effect for graduation:* The following statement is proposed as a state-wide policy governing a student's choice of catalog for graduation. It would apply to all undergraduates who attend or transfer between any Arizona public university or community college and would replace the current UA policy found in the section titled "Choice of Catalog" on page 29 of the *1993-95 General Catalog*. The only differences between the proposed policy and current UA policy are that the state-wide policy would extend to students transferring between the three state universities (our current policy applies only to our own students and transfers from state community colleges) and it would reduce the time limit defining obsolete course work from 10 years to 8 years. Our current course obsolete policy is found under "Time Limit for Obsolete Course Work" on page 29. The proposed policy was approved by the Undergraduate Council on May 4, 1993 and has the endorsement of the Academic Program Articulation Steering Committee, which is composed of chief academic officers of Arizona community colleges and universities. It reads as follows:

Students maintaining continuous enrollment at any public Arizona community college or university may graduate according to the requirements of the catalog in effect at the time of initial enrollment or according to the requirements identified in any single catalog in effect during subsequent terms of continuous enrollment. This determination of continuous enrollment applies to students when they enroll at one of the public community colleges or universities in Arizona, as well as to students who transfer between public institutions in the state of Arizona.

1. A semester will be counted toward continuous enrollment when a student earns at least one credit hour. Summer terms/sessions are included in the determination of consecutive semesters for continuous enrollment. Enrollment in one or more summer terms/sessions is considered the equivalent of a

semester for the purpose of this document. Noncredit courses, audited courses, or courses from which the student withdraws before completion do not count toward the determination of continuous enrollment for catalog purposes.

2. Students who fail to meet the minimum enrollment standard as established in No. 1 during three or more consecutive semesters at any public Arizona community college or university are no longer considered continuously enrolled and must meet requirements of the public Arizona community college or university catalog in effect at the time they are readmitted or of a subsequent catalog after readmission while they remain continuously enrolled.
3. First-time students or noncontinuous students reapplying for admission to an Arizona public community college or university during a summer term must follow the requirements of the catalog in effect the following fall semester or any subsequent catalog as long as they are continuously enrolled.
4. Courses or degree requirements which are more than eight years old are applicable toward completion of a degree at the discretion of the student's major department. Accreditation may limit the applicability of courses or degree requirements to less than eight years. Departments may approve, disapprove, or request that the students revalidate the substance of such courses.
5. Students transferring between the Arizona public higher education institutions are subject to the admission requirements of the receiving institution, must fulfill the residency requirements of the institution awarding the

degree, and are responsible for completing all curricular and academic requirements of the degree-granting institution.

- B. *Concurrent J.D./M.P.A. degree program:* The College of Law and the College of Business and Public Administration request approval of a program which would allow students working toward the Juris Doctor and Master of Public Administration degrees to complete the degrees concurrently. Students would be admitted to each college independently. Students would be required to consult with an advisor on the faculty of law as well as an advisor on the faculty of public administration. Students would take the first year of each program in consecutive years, with the option of beginning in either program. They would be enrolled in both law and public administration courses in the third and fourth years of the program. A student may apply up to 15 credits earned in the College of Law toward the M.P.A. and up to 15 units earned in the School of Public Administration toward the J.D. To assure compliance with Graduate College requirements, students must earn a "B" or receive a grade of "P" in the law courses that will be applied toward the M.P.A. Students must earn a "C" or better in M.P.A. courses that will be applied toward the J.D.

The proposal was approved by the Graduate College on April 16, 1993.

- C. *Deletion of the Master of Library Science degree:* The School of Library Science, with the approval of the Faculty of Social and Behavioral Sciences, requests approval of its proposal to delete the Master of Library Science degree. The Master of Arts with the major in library science, which was recently approved by the Board of Regents, will replace the Master of Library Science degree. This change is in keeping with the shift to a more academic, research-oriented program.

The deletion of the M.L.S. was approved by the Graduate Council on April 16, 1993.

- D. *Deletion of the major in real estate for the Bachelor of Science in Business Administration degree:* The Department of Finance and Real Estate, with the approval of the College of Business and

Public Administration, requests approval of its proposal to delete the major in real estate for the Bachelor of Science in Business Administration degree. Student demand for the real estate major has been steadily declining in recent years, and the department does not have the resources to continue to offer the real estate major. No tenure track faculty have been associated with the program since 1989 and courses are taught entirely by adjunct lecturers. The department will phase out the major in a manner that will permit students currently in the program to complete their degrees. The department will continue some real estate courses that interest students majoring in finance. The proposal was approved by the Undergraduate Council on May 4, 1993.

- E. *Joint Pharm.D./Ph.D. program:* The College of Pharmacy requests approval of its proposal to offer a joint program to award both the Pharm.D. and Ph.D. degrees. A number of highly qualified pharmacy students have inquired about a possible joint Pharm.D./Ph.D. program. The proposed program would allow students to complete a Pharm.D. degree and a Ph.D. with major in pharmacology and toxicology or in pharmacy. The proposed program would allow students to obtain both degrees in 8.5 to 9 years, approximately one year less than taking the degrees sequentially. The reduction in required time for degree completion would result from allowing students to receive graduate credit for certain pharmacy courses taken at the 500 or 600 level. Interested students must first be admitted to the Pharm.D. program and then apply to the graduate program. Standard admission procedures and standard practices and requirements for the Ph.D. degree would be followed. The proposal was approved by the Graduate College on October 16, 1992.

II. NOTICES (for information)

Final Action of the Board of Regents, June 17, 1993

- A. Approved the name change for the Department of German to the Department of German Studies.

Planning Authorization Deadline for Fall Term:

October 1 is the deadline for submission to the Curriculum Office of all new requests for planning authorization and for extension of existing planning authorizations which are to be considered by the Board of Regents in January 1994. Planning authorizations are considered twice a year by the Board of Regents, in January and in July. Planning authorization must be granted by the Board of Regents prior to the development of the formal new study program request. Planning authorization request forms are available at the University Curriculum Office, Nugent 209, or by calling 1-3913.

New Program Proposals

January 31, 1994 is the deadline for new program proposals and revisions intended for the 1995-97 catalogs which require Board of Regents approval. New program proposals should be submitted on the "Request for New Study Program" form, available at the University Curriculum Office, Nugent 209, or by calling 1-3913. Revisions requiring Board of Regents approval, such as a change in the name of a major or academic unit or deletion of a major, should be submitted as a memorandum which includes justification for the request and approval of the department head and dean. If you are unsure whether or not a proposed revision will require Board of Regents approval, call 1-3913 before the January 31st deadline.

Curriculum Bulletin Mailing List

If you are currently receiving unwanted or incorrectly addressed Curriculum Bulletins, or if you would like to receive additional copies, please call the Curriculum Office at 1-3913.

III. NEW COURSES AND COURSE DELETIONS

African American Studies (AAS)

342. NEW COURSE: "Writers, Women, and the Gods: The Caribbean Novel (3) I Examination of novels written by women in the Caribbean, with focus on the turn to local, folk, or "alternative" culture; the uses of religion in narrative and as image; and the construction of a uniquely female identity or voice. Since the 1960s, women's writing in the Caribbean has helped to redefine fiction in the Americas. (Identical with ENGL 342 and W S 342)." Eff. I 93-94.
- 596j.- Add: "Issues in African Art History (3) [Rpt./12 units] I II (Identical with ARH 596j)." Eff. I 93-94.

Anthropology (ANTH)

447. NEW COURSE: "Anasazi Archaeology (3) Detailed review of the archaeology of the Colorado Plateau emphasizing its agriculturally-based occupants, the Anasazi, and their descendants, the Pueblo Indians. P, ANTH 452 recommended but not required. May be convened with 547." Eff. I 93-94.
547. Add: "Anasazi Archaeology (3) For a description of course topics, see 447. Graduate-level requirements include a longer term paper. May be convened with 447." Eff. I 93-94.
- 596j.- Add: "Issues in African Art History (3) [Rpt./12 units] I II (Identical with ARH 596j)." Eff. I 93-94.

Architecture (ARCH)

429. NEW COURSE: "Pre-Design Services (2) II S GRD Principles and operations of gathering, analyzing, interpreting, translating and presenting information and ideas pertinent to architectural design. Credit is allowed for this course or ARCH 227. P, admission to professional phase. May be convened with 529." Eff. Summer I 1993.
- 466.+ NEW COURSE: "The Art and Architecture of Le Corbusier (3) [Rpt./1] II 1993-94 Introduction to the art and architecture of Le Corbusier (1887-1965), with emphasis on his energy conscious techniques; technology as a major design determinant; monumental urban spaces and structures. P, 334. (Identical with ARH 466) May be convened with 566." Eff. I 93-94.
529. Add: "Pre-Design Services (2) II S GRD For a description of course topics, see 429. Graduate-level requirements include an in-depth research paper focusing on a particular methodology used in architecture programming. May be convened with 429." Eff. Summer I 1993.

560. NEW COURSE: "Introduction to Architecture Graduate Computing (3) I II Study and use of computing applied to the architecture masters thesis to include: architectural graphics, desktop publishing, CAD, and computer presentation. Students need previous knowledge of IBM and Macintosh operating systems and experience with word processing and spreadsheets. P, graduate admission." Eff. I 93-94

566. + Add: "The Art and Architecture of Le Corbusier (3) [Rpt./1] II 1993-94 For a description of course topics, see 466. Graduate requirements include an additional research paper or project. (Identical with ARH 566) May be convened with 466." Eff. I 93-94.

Animal Sciences (AN S)

601. Change home department to N SC. Delete entry under AN S. Eff. II 93-94.

Arid Lands (AR L)

430.- Add: "The Climate System (3) I (Identical with GEOG 430) May be convened with 530." Eff. I 93-94.

530.- Add: "The Climate System (3) I (Identical with GEOG 530) May be convened with 430." Eff. I 93-94.

Art (ART/ARE/ARH)

Art (ART)

341d. NEW COURSE: "Intermediate Photography (3) Methods to alter the meaning and surface of the photograph. Painting, sculpture and any other forms that might alter, disfigure or reinvent the concept of photo. 2R, 2S. Fees. P, 241, acceptance by portfolio." Eff. Summer Session I 1993.

Art Education (ARE)

434. NEW COURSE: "Cross-Cultural Issues in Art Education (3) Multicultural and cross-cultural issues within visual arts education (e.g., in studio art, art criticism, art history, and aesthetics). May be convened with 534." Eff. I 93-94.

534. Add: "Cross-Cultural Issues in Art Education (3) For a description of course topics, see 434. Graduate-level requirements include a choice of either developing a curriculum unit/project based on some aspect of multicultural art education, researching and writing a ten-page paper related to a multicultural topic, or conducting a small multicultural research project. May be convened with 434." Eff. I 93-94.

558. NEW COURSE: "Theories of Curriculum and Instruction in Art (3) Recent theories in the fields of curriculum and art education. Review and evaluation of extant art curricula and development skills for presentation, monitoring and evaluation of instruction. P, 338L." Eff. I 93-94.

Art History (ARH)

112. NEW COURSE: "Art in Non-Western Society (3) A concise introduction to the visual arts of the non-western world; comparative and cross-cultural, covering African, Islamic, Asian, Pacific Basin, Prehispanic and Native North American cultures." Eff. I 93-94.

466.- Add: "The Art and Architecture of Le Corbusier (3) [Rpt./1] II 1993-94 (Identical with ARCH 466) May be convened with 566." Eff. I 93-94.

566.- Add: "The Art and Architecture of Le Corbusier (3) [Rpt./1] II 1993-94 (Identical with ARCH 566) May be convened with 466." Eff. I 93-94.

596j. + NEW COURSE: "Issues in African Art History (3) [Rpt./12 units] I II (Identical with ANTH 596j, AAS 596j)." Eff. I 93-94.

Biochemistry (BIOC)

433. + NEW COURSE: "Teaching Biology Lab (2) II Preparation and teaching of lab and field exercises for high school biology. Includes brief high school teaching experiences. Designed for prospective high school biology teachers. 1R, 3L. Field trip. Open to prospective biology teachers only. P, 12 units of biology. (Identical with ENTO 433) May be convened with 533." Eff. II 93-94.

533. + Add: "Teaching Biology Lab (2) II For description of course topics, see 433. Graduate-level requirements include an additional project. (Identical with ENTO 533) May be convened with 433." Eff. II 93-94.

595a. + NEW COURSE: Colloquium: "Oncogenes and Signal Transduction (1) [Rpt./2] I Open to graduate students in biological discipline, exceptionally qualified undergraduates (Identical with CBIO 595a)." Eff. I 93-94.

597c. NEW COURSE: "Colloquium: "Current Topics for Biology Teaching (1) [Rpt./29] I II Designed to inform in-service and pre-service biology teachers of new developments in the biological sciences. Topics vary with each offering. Open to in-service and pre-service teachers only. P, 18 units of biological sciences." Eff. I 93-94.

Cancer Biology (CBIO)

595a.- Add: Colloquium: "Oncogenes and Signal Transduction (1) [Rpt./2] I Open to graduate students in biological discipline, exceptionally qualified undergraduates (Identical with BIOC 595a, which is home)." Eff. I 93-94.

597a.+ NEW COURSE: Workshop: "Mechanisms of Cancer Prevention (3) II 1993-94 P, graduate status in biological sciences. (Identical with RONC 597a, N FS 597a)." Eff. I 93-94.

Comparative Cultural and Literary Studies (CCLS)

205.- Add: "Introduction to Feminist Literary Theory (3) II (Identical with WS 205)." Eff. II 93-94.

East Asian Studies (EAS/CHN/JPN)

East Asian Studies (EAS)

350.+ NEW COURSE: "Hindu Mythology (3) II S Overview of the traditional Hindu myths. Topics from Vedic, Epic, Puranic and other religious sources; their influence upon culture, philosophy, literature, and folklore. (Identical with HUM 350 and RELI 350." Eff. II 93-94.

Ecology and Evolutionary Biology (ECOL)

474.+ NEW COURSE: "Animal-Human Communication (3) II Survey of animal-human communication studies. Critical discussions of papers describing the rationale, design and success of projects involving nonhuman primates, marine mammals, and a parrot, supplemented by films and videos. Background material on animal-animal communication and animal intelligence. Emphasis on what can be learned about human and nonhuman capacities from studying how animals acquire and use human communication systems. P, 487 or equivalent or instructor's permission. (Identical with PSYC 474) May be convened with 574." Eff. II 93-94.

574.+ Add: "Animal-Human Communication (3) II For a description of course topics, see 474. Graduate-level requirements include a research paper. (Identical with PSYC 574) May be convened with 474." Eff. II 93-94.

596f. COURSE DELETION: "Sociology (2)." Eff. I 93-94.

Electrical and Computer Engineering (ECE)

495b. COURSE DELETION: "Engineering Practice (4)." Eff. I 93-94.

495c. NEW COURSE: Colloquium: "Professional Preparation (5) I II P, 302. Writing-Emphasis Course.*" Eff. I 93-94.

English (ENGL)

342. Add: "Writers, Women and the Gods: The Caribbean Novel (3) I (Identical with AAS 342)." Eff. I 93-94.

696e. NEW COURSE: Seminar: "Studies in Rhetoric and Composition (3) [Rpt./6] I II S." Eff. I 93-94.

Entomology (ENTO)

433.- Add: "Teaching Biology Labs (2) II (Identical with BIOC 433) May be convened with 533." Eff. II 93-94.

533.- Add: "Teaching Biology Labs (2) II (Identical with BIOC 533) May be convened with 433." Eff. II 93-94.

Geography and Regional Development (GEOG)

430.+ NEW COURSE: "The Climate System (3) I Systematic examination of processes and circulations comprising Earth's climate. Emphasis on circulations influencing geographic processes using examples of atmospheric environmental issues. P, 103a or ATMO/GEOG 171. (Identical with AR L 430) May be convened with 530." Eff. I 93-94.

530.+ Add: "The Climate System (3) I For a description of course topics, see 430. Graduate-level requirements include the completion of a term paper. (Identical with AR L 530) May be convened with 430." Eff. I 93-94.

German (GER)

272. NEW COURSE: "Drama and Theater in Twentieth-Century Germany (3) I Study of individual works of modern German drama and of German theater productions from the late nineteenth century up to the present time." Eff. I 93-94.

History (HIST)

695p. NEW COURSE: Colloquium: "World History (3) II 1993-94." Eff. II 93-94.

Humanities (HUM)

350.- Add: "Hindu Mythology (3) II S (Identical with EAS 350)." Eff. II 93-94.

Language, Reading and Culture (LRC)

415. NEW COURSE: "Media and Reading, Language, Arts (3) I II S Procedures for planning, creating and using effective media presentations in reading and language arts instructional settings. May be convened with 515." Eff. I 93-94.

515. Add: "Media and Reading, Language, Arts (3) I II S For a description of course topics, see 415. Graduate-level requirements include an in-depth research paper or project. May be convened with 415." Eff. I 93-94.

Latin American Studies (LAS)

- 406.- Add: "Lusophone Literature Since 1900 (3) I (Identical with PORT 406) May be convened with 506." Eff. II 93-94.
- 506.- Add: "Lusophone Literature Since 1900 (3) I (Identical with PORT 506) May be convened with 406." Eff. II 93-94.

Law (LAW)

630. NEW COURSE: "Psychology, Law and Social Policy (3) I." Eff. I 93-94.
634. NEW COURSE: "Corporations II (2-3) II P, 616." Eff. II 93-94.
651. NEW COURSE: "Entertainment Law (2) I." Eff. I 93-94.
- 655a-655b. NEW COURSE: "Intellectual Property Law (3-3). Open to graduate and law students." Eff. I 93-94.
672. NEW COURSE: "Legal Analysis and Legal Reasoning (2) I II S." Eff. I 93-94.
674. NEW COURSE: "Law of White Collar Crime (2-3) I." Eff. I 93-94.
678. NEW COURSE: "Jessup Moot Court (2) II." Eff. II 93-94.
681. NEW COURSE: "Banking Law (3) I." Eff. I 93-94.
- 696a. NEW COURSE: Seminar: "Estate Planning (2) P, 619, 646, 648." Eff. I 93-94.
- 696h. NEW COURSE: Seminar: "Sports Law (2) II." Eff. II 93-94.

Management and Policy (MAP)

543. + NEW COURSE: "White Collar and Organizational Crime (3) I The nature and distribution of white collar and organizational crime. Sociological and economic explanations for crime in organizational settings. Societal response and control mechanisms. (Identical with SOC 543)." Eff. I 93-94

Management Information Systems (MIS)

546. NEW COURSE: "Graphs and Network Flows (3) II 1993-94 Formulation and solution of problems formulated on graphs and networks. Topics include shortest paths, max-flow min-cut, min-cost flow, matching, traveling salesman and vehicle routing problems. Credit is allowed for this course or SIE 546. P, 552 or SIE 544." Eff. II 93-94.

586. NEW COURSE: "Machine Scheduling (3) II General job-shop problems, performance measures. Complexity classification of problems, P and NP characteristics. Single and parallel machines, flow, open-shop and resource-constrained scheduling. P, 422/522 or instructor's approval." Eff. II 93-94.
646. NEW COURSE: "Combinatorial Optimization and Integer Programming (3) II 1994-95 Formulation, solution and implementation of integer problems, for decision making where choices are discrete. Methods include branch-and-bound, cutting-plane methods and Lagrangean relaxation. Credit is allowed for this course or SIE 646. P, 522 or SIE 544." Eff. I 93-94.

Mathematics (MATH)

- 576a-576b. NEW COURSE: "Numerical Analysis PDE (3) 576a: Finite difference, finite element and spectral discretization methods; semidiscrete, matrix and Fourier analysis. 576b: Well-posedness, numerical boundary conditions, nonlinear instability, time-split algorithms, special methods for stiff and singular problems. P, 413, 456, 575b." Eff. I 94-95.

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

Family and Community Medicine (F CM)

401. NEW COURSE: "Empowerment, Mind, Sickness and Health (2) [Rpt] I II Critical thinking and working principles in cognitive, mind-body, behavioral aspects of sickness and health: empowerment, stress, coping, conditional/unconditional mind, decision making, addictive-abusive behaviors, communication, and relationships, self awareness; healing and health. P, upper division or graduate or credit in F CM 195a). May be convened with 501." Eff. II 93-94.
501. Add: "Empowerment, Mind, Sickness and Health (2) [Rpt] I II For a description of course topics, see 401. Graduate-level requirements include a research project or paper. May be convened with 401." Eff. II 93-94.

Medicine (MEDI)

- 891b. NEW COURSE: "Ambulatory Internal Medicine: Clinical Problems (6) Open to fourth year medical students." Eff. Summer I 1993.

Obstetrics and Gynecology (OB G)

- 810a. NEW COURSE: Clerkship: "Preparation for Practice (4-6) P, 803." Eff. Summer Session I, 1993.

Pathology (PATH)

489. COURSE DELETION: "Introduction to Forensic Science (2)." Eff. I 93-94.
589. Delete: "Introduction to Forensic Science (2)." Eff. I 93-94

Radiation Oncology (RONC)

- 597a.- Add: Workshop: "Mechanisms of Cancer Prevention (3) II 1993-94 P, graduate status in biological sciences. (Identical with CBIO 597A, which is home)." Eff. I 93-94.

Microbiology (MIC)

- 432.- Add: "Pathogenic Virology (3) [Rpt.] I (Identical with V SC 432)." Eff. I 93-94.

Microbiology and Immunology (MBIM)

- 532.- Add: "Pathogenic Virology (3) [Rpt.] I (Identical with V SC 532)." Eff. I 93-94.

Mining and Geological Engineering (GE N/MNEC/MN E)

Geological Engineering (G EN)

- 529.- Course number changed from "629" to "529." Title: "Rock Slope Design." Eff. I 93-94.
- 629- Change course number from "629" to "529." Eff. I 93-94.

Mining Engineering (MN E)

- 529.+ Course number changed from "629" to "529." Title: "Rock Slope Design." Eff. I 93-94.
- 629.+ Change course number from "629" to "529." Eff. I 93-94.

Molecular and Cellular Biology (MCB)

- 432.- Add: "Pathogenic Virology (3) [Rpt.] I (Identical with V SC 432)." Eff. I 93-94.

Nursing (NURS)

431. NEW COURSE: "Professional Nursing Issues (2) [Rpt./1] II Contemporary professional issues influencing professional nursing practice. Credit is allowed for this course or NURS 488, but not for both. Open to majors only. Available only to students in the Accelerated Pathway for Second Degree Students program." Eff. II 93-94.

572. NEW COURSE: "Geriatrics Pharmacotherapeutics (2) [Rpt./1] II A clinical pharmacology course that provides the student with knowledge about common medications used to treat older adults. Of primary focus is the drug management of chronic and self-limiting acute diseases. Specific content of the course covers representative drugs of a pharmacologic group, indications for use, drug selection, titration of dosage, key adverse effects, monitoring of therapy and alternate drugs. Open to majors only." Eff. II 93-94.

Nutrition and Food Science (N FS)

- 597a.- Add: Workshop: "Mechanisms of Cancer Prevention (3) II 1993-94 P, graduate status in biological sciences. (Identical with CBIO 597a, which is home)." Eff. I 93-94.

Optical Science (OPTI)

568. NEW COURSE: "Charge transfer devices, monolithic and hybrid focal planes, photoconductive, photovoltaic, and pyroelectric detectors, figures of merit, time-delay integration (TDI), fat zero, transfer efficiency, MTF, double-correlated sampling input techniques, output techniques, buried channel vs. surface channel devices. Lab experiments will also be performed as part of this class. P, 507.

Planetary Sciences (PTYS)

112. NEW COURSE: "Undergraduate Research in Planetary Science (4) II Student research using spacecraft or ground-based telescopic data to investigate various topics of current interest in planetary science. P, 105 or 106. 2R, 2L." Eff. II 93-94.
- 211.+ NEW COURSE: "Image Processing for Scientific Discovery (3) II Image processing as a tool for exploration, discovery and analysis of digital images in a variety of sciences. The emphasis is on hands-on image processing with applications to various sciences using a variety of activities and data sets. For science, non-science and science education majors. 2R, 1L. (Identical with TTE 211)." Eff. II 93-94.

Plant Pathology (PL P)

- 197a.- Add: Workshop: "Genetic Engineering (1) S Open to participants in Horizons Unlimited Summer Program (Identical with PL S 197a, which is the home)." Eff. Summer Session I 1993.

Plant Sciences (PL S)

- 197a.+ NEW COURSE: Workshop: "Genetic Engineering (1) S Open to participants in Horizons Unlimited Summer Program (Identical with PL P 197a)." Eff. Summer Session I 1993.

Psychology (PSYC)

- 196b. NEW COURSE: Proseminar: "The Psychology of Death in Our Life (1) I II Credit is allowed for this course or other freshman seminar." Eff. I 93-94.
- 474.- Add: "Animal-Human Communication (3) II (Identical with ECOL 474) May be convened with 574." Eff. II 93-94.
- 563a-563b. NEW COURSE: "Forensic Assessment: Intervention and Treatment I, II (3-3) I II Theory, research and practice in the assessment and treatment of, and intervention with, persons involved with the legal process who have clinical problems. P, permission of the instructor." Eff. I 93-94.
- 574.- Add: "Animal-Human Communication (3) II (Identical with ECOL 574) May be convened with 474." Eff. II 93-94.
- 597d. NEW COURSE: Workshop: "Program Evaluation (1-3) [Rpt./6 units] I II S P, graduate standing. Permission of the instructor is required." Eff. Summer Session I 1993.

Public Administration and Policy (PA)

423. COURSE DELETION: "Introduction to Health Care Policy and the Elderly (3)." Eff. I 93-94.

Religious Studies (RELI)

- 350.- Add: "Hindu Mythology (3) II S (Identical with EAS 350)." Eff. II 93-94.

Sociology (SOC)

- 543.- Add: "White Collar and Organizational Crime (3) I (Identical with MAP 543)." Eff. I 93-94.
- 596r. NEW COURSE: Seminar: "Research and Publication (3) [Rpt./1] I II." Eff. I 93-94.

Soil and Water Science (S W)

305. NEW COURSE: "Pollution Science (3) II Introduction to the abiotic and biotic scientific processes within the soil/water/atmosphere continuum that affects the fate and transport of pollutants. Evaluation of the extent, fate, mitigation and impact of environmental pollution. P, CHEM 241a, MIC 205, MATH 125a, PHYS 102a." Eff. II 93-94.

464. NEW COURSE: "Environmental Chemodynamics (3) II Physical and chemical processes influencing the behavior of contaminants in the subsurface environment. Includes equilibrium and kinetic theory of solubilization-dissolution, volatilization, sorption, hydrolysis, photolysis, surface catalysis, and radioactive decay. P, CHEM 103b, 480a, PHYS 110. May be convened with 564 Brusseau." Eff. II 93-94.
564. Add: "Environmental Chemodynamics (3) II For a description of course topics, see 464. Graduate-level requirements include an in-depth research project. May be convened with 464." Eff. II 93-94.

Spanish and Portuguese (SPAN/PORT)

Spanish (SPAN)

433. NEW COURSE: "Mexican American Civilization through Literature (3) I 1993-94. P, 330/333." Eff. I 93-94.
501. NEW COURSE: "Introduction to Hispanic Studies (1) II Broad view of fields of research, faculty and courses to familiarize students with some practical aspects of graduate studies, issues that pertain to specific fields of research and questions currently being debated across the profession." Eff. II 93-94.

Portuguese (PORT)

406. + NEW COURSE: "Lusophone Literature Since 1900 (3) II Survey of literature written in Portuguese worldwide since 1900. Language of instruction is Portuguese. P, 350. (Identical with LAS 406) May be convened with 506." Eff. II 93-94.
506. + Add: "Lusophone Literature Since 1900 (3) II For a description of course topics, see 406. Graduate-level requirements include a ten to fifteen-page paper and an oral report. (Identical with LAS 506) May be convened with 406." Eff. II 93-94.

Special Education and Rehabilitation (SER)

526. NEW COURSE: "Principles and Assessment of O & M (3) I In-depth study of the principles supporting orientation and mobility instruction; assessment principles and strategies specific to O & M. P, 522a, 520 or equivalent from other universities." Eff. I 93-94.
527. NEW COURSE: "Advanced O & M Practice and Procedures (3) I Prepares orientation and mobility (O & M) specialists in methods, techniques and approaches using the long cane and other mobility devices essential in the development of travel skills of persons with visual impairments. 2R, 8L. P, 522a, 520 or equivalent from other universities." Eff. I 93-94.

597e. NEW COURSE: Workshop: "Consultation and Collaboration for Special Needs Students (2) II." Eff. II 93-94.

Statistics (STAT)

163. NEW COURSE: "Beginning Statistics in Bioscience (3) I II Basic concepts of probability and statistics. Descriptive statistics commonly used in biological and medical sciences such as mean, standard deviation, odds ratio and risk. Interpretation of statistical plots and charts. Basic ideas of estimation, regression and hypothesis testing. Emphasis on statistical concepts and interpretation of tests. P, MATH 117R/S." Eff. I 93-94.

595a. NEW COURSE: Colloquium: "Statistics (1) [Rpt./3 units] I II Open to majors only." Eff. I 93-94.

597a. NEW COURSE: Workshop: "Data Analysis (1) [Rpt./3 units] I II Open to majors only or with permission of instructor. P, 451, 509 or equivalent." Eff. I 93-94.

Teaching and Teacher Education (TTE)

211.- Add: "Image Processing for Scientific Discovery (3) II (Identical with PTYS 211)." Eff. II 93-94.

504. NEW COURSE: "Trends/Issues in Elementary Schools (3) I Investigation of the rationale, implementation and consequences of recent trends/issues in elementary school organization, curriculum and methodology." Eff. I 93-94.

597r. NEW COURSE: Workshop: "Action Research Workshop (3) S." Eff. Summer I 1993.

Theatre Arts (TAR)

646a-646b. NEW COURSE: "Theories of the Theatre I-II (3-3) 646a: I 646b: II 1994-95 A year-long study of theories of theatrical performance and dramatic composition. The first semester covers select theories from the Greeks through Neoclassicism. The second semester treats theories from Romanticism to the present." Eff. I 94-95

Veterinary Science (V SC)

432. + NEW COURSE: "Pathogenic Virology (3) [Rpt.] I Etiology, ecology, and pathogenesis of viral diseases of humans and other animals. P, 419, 429. (Identical with MIC 432, MCB 432) May be convened with 532." Eff. I 93-94.

532. + Add: "Pathogenic Virology (3) [Rpt.] I For description of course topics, see 432. Graduate-level requirements include a research term paper and class presentation. (Identical with MBIM 532) May be convened with 432." Eff. I 93-94.

Women's Studies (WS)

205. NEW COURSE: "Introduction to Feminist Literary Theory (3) II Introduction to the principles of feminist literary analysis through texts authored by women writers and through diverse theoretical writings on race, language, sexuality, creativity, class and subordination which forms the basis of feminist criticism. Within the theoretical context we will explore writings by Anglo women, women of color, and women from diverse cultural traditions. (Identical with CCLS 205)." Eff. II 93-94.

310. NEW COURSE: "Feminist Ethics (3) II Exploration of diverse feminist ethical languages and value systems and the enactment of these languages and values through the activism surrounding contemporary social issues. Assignments and class discussions directed toward students' understanding various moral positions and articulation of their own positions. P, 3 units of women's studies or permission of instructor." Eff. II 93-94.

342. Add: "Writers, Women and the Gods: The Caribbean Novel (3) I (Identical with AAS 342)." Eff. I 93-94.

IV. COURSE AND CATALOG CHANGES

African American Studies (AAS)

- 329.- Delete alternate year. Eff. II 93-94.
- 487. + Course expansion from "487" to "487a-487b." Eff. II 93-94.
- 487a.-487b. + Course expansion from "487" to "487a-487b." New listing reads: "Race and Public Policy (3-3) (Identical with POL 487a-487b)." Eff. II 93-94.

Agricultural and Biosystems Engineering (ABE)

- 696a. Change repeatability to "[Rpt./8]." Eff. II 92-93.

Agricultural Education (A ED)

- 540. Change course title to "International Extension Education." Eff. II 93-94.

American Indian Studies (AINS)

- 423.- Change course title to "Anthropology of Rural Mexico." Eff. I 93-94.
- 487. + Course expansion from "487" to "487a-487b." Eff. II 93-94.
- 487a.-487b. + Course expansion from "487" to "487a-487b." New listing reads: "Race and Public Policy (3-3) (Identical with POL 487a-487b) May be convened with 587a-587b." Eff. II 93-94.
- 523.- Change course title to "Anthropology of Rural Mexico." Eff. I 93-94.
- 587. + Course expansion from "587" to "587a-587b." Eff. II 93-94.
- 587a-587b. + Course expansion from "587" to "587a-587b." Eff. II 93-94.
- 688.- Add: "Energy and Natural Resources (3) II GRD (Identical with LAW 688)." Eff. I 1993-94

Anatomy (ANAT)

- 575. + Add crosslisting with PSIO and MCB. Eff. II 93-94.
- 602. Change course title to "Histology and Cell Biology." Change course description to "Essentials of microscopic human anatomy and cell biology." Eff. II 1993-94
- 696b. Change course title to "Student Seminar." Eff. II 93-94.
- 697a. Change course title to "Neurobiology of Motor Control." Eff., II 1993-94.
- 802. Change course title to "Histology and Cell Biology." Change course description to "Essentials of microscopic human anatomy and cell biology." Eff. II 1993-94

Animal Science (AN S)

- 478. Change number of units from "(2)" to "(3)." Change semester offering from "II" to "I." Change prerequisites to "280, 336." Eff. I 93-94.

Anthropology (ANTH)

- 329. + Change course description to "Introduction to African prehistory, social anthropology, ecology, religions, ancient and modern state formation, slavery, urbanization, and contemporary issues." Delete alternate year. Eff. II 93-94.
- 412. + Change alternate year to "1993-94." Eff. I 93-94.
- 423. + Change course title and description to "Anthropology of Rural Mexico (3) II 1994-95 Historical and cultural background and contemporary economic, political, and social organization of indigenous and non-indigenous groups in rural Mexico. Primarily concerned with the people of the countryside, and the Mexican revolution. (Identical with AINS 423, LA S 423 and MAS 423) May be convened with 523." Eff. I 93-94.
- 523. + Change course title to "Anthropology of Rural Mexico." Change graduate-level requirements to "a term paper based on original library, archival or field research." Eff. I 93-94.
- 588.- Change course title to "Healing Systems in the Southwest." Eff. II 93-94.

Art (ART/ARE/ARH)

Art (ART)

- 680. Change number of units from "(6-10)" to "(3-10)." Eff. I 93-94.

Atmospheric Sciences (ATMO)

- 595b. + Add repeatability "[Rpt./1]." Eff. I 93-94.

Biochemistry (BIOC)

- 621.- Change semester offering from "II" to "I." Change alternate year to "1993-94." Eff. I 93-94.

Cancer Biology (CBIO)

- 597a. Add crosslisting with MBIM. Eff. I 93-94.

Classics (CLAS)

- 330. Add: "Writing-Emphasis Course*." Eff. I 93-94.

East Asian Studies (EAS/CHN/JPN)

Japanese Studies (JPN)

- 421. Add repeatability "[Rpt.]" Eff. I 93-94.
- 422. Add repeatability "[Rpt.]" Eff. I 93-94.
- 521. Add repeatability "[Rpt.]" Eff. I 93-94.
- 522. Add repeatability "[Rpt.]" Eff. I 93-94.

Ecology and Evolutionary Biology (ECOL)

- 596a. Add alternate year "1994-95." Eff. II 93-94.

Educational Psychology (ED P)

- 677. Change "Open to majors and minors only" to "Majors only or permission of instructor." Eff. II 93-94.

Ecology and Evolutionary Biology (ECOL)

- 428.- Add semester offering "I II." Eff. I 93-94.

English (ENGL)

- 403.- Delete "Mexican American Literature (3)." Eff. II 93-94.
- 465. Change course description to "Major poetry, nonfictional prose, and fiction." Eff. I 93-94.

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

Counseling and Guidance (COUN)

- 597m. + Add crosslisting with SER 597m. Eff. Pre-session 1993.

French and Italian (FREN/ITAL)

- Revision to the 1993-95 General Catalog headnotes, page 209, under "Degree Programs," add:
"A second option at the M.A. level is the program in pedagogy which adds a strong pedagogy component to existing language and literature studies."
Eff. II 93-94.

Italian (ITAL)

- 400a-400b. Course expansion from "400a-400b" to "400a-400b/500a-500b." Eff. I 93-94.
- 500a-500b. Add: "Main Currents of Italian Literature (3-3) For description of course topics, see 400a-400b. Graduate-level requirements include more demanding readings and other assignments. P, 202. May be convened with 400a-400b." Eff. I 93-94.

Genetics (GENE)

- 433. Change prerequisite to "P, ECOL 320." Eff. I 93-94.

Geosciences (GEOS)

- 595b.- Add repeatability "[Rpt./1]." Eff. I 93-94.

History (HIST)

- 596o. Change course number from "596o" to "695o." Eff. I 93-94.
- 695o. Course number changed from "596o" to "695o." Title: "Comparative History." Eff. I 93-94.

Hydrology and Water Resources (HWR)

- 595b.- Add repeatability "[Rpt./1]." Eff. I 93-94.

Judaic Studies (JUS)

- 203a-203b. + Course number changed from "403a-403b" to "203a-203b." Title: "Intermediate Modern Hebrew." Eff. I 94-95
- 303. + Course number changed from "453" to "303." Title: "Advanced Hebrew." Change prerequisite to "P, 203b or 409b." Add crosslisting with NES. Eff. I 94-95.
- 403a-403b. + Change course number from "403a-403b" to "203a-203b." Eff. I 94-95.
- 453. Change course number from "453" to "303." Eff. I 94-95.

Latin American Studies (LA S)

- 423.- Change course title to "Anthropology of Rural Mexico." Eff. I 93-94.
- 523.- Change course title to "Anthropology of Rural Mexico." Eff. I 93-94.

Law (LAW)

- 584a-584b.- Add: "Development of Federal Indian Policy (3-3) (Identical with POL 584a-584b)." Eff. I 93-94.
- 603. Course expansion from "603" to "603a-603b." Eff. I 93-94.
- 603a-603b. Course expanded from "603" to "603a-603b." 603a is "First-year Legal Research (1)." 603b is "First-year Legal Writing (1)." Eff. I 93-94.
- 616. Change title to "Corporations I." Eff. I 93-94.
- 630. Change course number from "630" to "671." Eff. I 93-94.
- 630. Change course title to "Scientific Evidence." Eff. II 93-94.
- 645a. Change course title to "Basic Trial Advocacy." Change number of units from "(2)" to "(1)." Eff. I 93-94.

- 645b. Change course title to "Advanced Trial Advocacy." Change number of units from "(3)" to "(1)." Eff. I 93-94.
671. Course number changed from "630" to "671." Title: "Law and Humanities." Eff. I 93-94.
688. + Change course title to "Energy and Natural Resources." Add crosslisting with AINS 688. Eff. I 93-94.
689. Change number of units from "(1-2)" to "(2)." Eff. II 93-94.
- 696o. Change course title to "Therapeutic Jurisprudence." Eff. I 93-94.

Linguistics (LING)

- 318.- Add: "Language Development (3) I (Identical with PSYC 318)." Eff. II 93-94.
600. Change repeatability to "[Rpt./2.]" Eff. I 93-94.

Mathematics (MATH)

426. Change prerequisite to "P, 425." Eff. I 93-94.
554. Add alternate year "1994-95." Eff. I 93-94.

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

Family and Community Medicine (F CM)

- 588.- Change course title to "Healing Systems in the Southwest." Eff. II 93-94.
- 596h. Change number of units from "(1)" to "(1-2)." Eff. I 93-94.

Medicine (MEDI)

- 810a. Change number of units from "(6)" to "(4-8)." Eff. I 93-94.
- 810c. Change number of units from "(4)" to "(3-12)." Eff. I 93-94.
- 811a. Change number of units from "(6-12)" to "(4-12)." Eff. I 93-94.
- 811i. Change number of units from "(4)" to "(4-6)." Eff. I 93-94.
- 811m. Change number of units from "(4-6)" to "(4-8)." Eff. I 93-94.
- 815b. Change number of units from "(3)" to "(3-6)." Eff. I 93-94.
- 815d. Change number of units from "(4)" to "(4-6)." Eff. I 93-94.
- 815e. Change number of units from "(6)" to "(3-6)." Eff. I 93-94.
- 815n. Change number of units from "(4-6)" to "(3-6)." Eff. I 93-94.

Neurology (NEUR)

- 815b. Change number of units from "(3-6)" to "(4)." Eff. I 93-94.
- 815c. Change number of units from "(3)" to "(4-6)." Eff. I 93-94.

Pediatrics (PED)

- 810a. Change number of units from "(6)" to "(4)." Eff. I 93-94.
- 810d. Change number of units from "(6)" to "(4)." Eff. I 93-94.
- 891f. Change course title to "Pediatric Pulmonology." Eff. I 93-94.
- 891h. Change course title to "Pediatric Critical Care." Eff. I 93-94.

Psychiatry (PSYI)

- 810a. Change number of units from "(6)" to "(4-6)." Eff. I 93-94.
- 815a. Change number of units from "(6)" to "(4-6)." Eff. I 93-94.

Surgery (SURG)

- 810a. Change number of units from "(6)" to "(3-8)." Eff. I 93-94.
- 815b. Change number of units from "(6)" to "(4-12)." Eff. I 93-94.
- 815c. Change number of units from "(6)" to "(3-6)." Eff. I 93-94.
- 815e. Change number of units from "(6)" to "(4-6)." Eff. I 93-94.
- 815k. Change number of units from "(1-6)" to "(3-8)." Eff. I 93-94.
- 815m. Change number of units from "(3-6)" to "(3-8)." Eff. I 93-94.
- 815q. Change number of units from "(3-4)" to "(3-6)." Eff. I 93-94.

Mexican American Studies (MAS)

- 423.- Change course title to "Anthropology of Rural Mexico." Eff. I 93-94.

Microbiology (MIC)

- 428.- Add semester offering "I II." Eff. I 93-94.

Microbiology and Immunology (MBIM)

- 597a. Add: "Mechanisms of Cancer Prevention (3) I 1993-94 (Identical with CBIO 597a)." Eff. I 93-94.

Molecular and Cellular Biology (MCB)

- 428.- Add semester offering "I II." Eff. I 93-94.
- 575.- Add: "Special Topics in Biological Imaging (2) (Identical with ANAT 575)." Eff. II 93-94.
- 621.- Change semester offering from "II" to "I." Change alternate year to "1993-94." Eff. I 93-94.

Music (MUS)

- Revision to the headnotes section of the 1993-95 General Catalog, page 280, under "The Major in Music Education (Voice):" delete "435." Eff. I 93-94.

Revision to the headnotes section of the 1993-95 General Catalog, page 280, under "Bachelor of Music," rewrite "(2)" as follows:
 "MUS 110a-110b, 120a-120b, 130a-130b, 210a-210b (except for guitar performance majors), MUS 220a-220b, 320, 330a-330b. Keyboard majors are exempted from 110a-110b and 210a-210b." Eff. I 94-95.

- 200c. Change course title to "Campus Band." Eff. II 93-94.
- 371. Change course title to "Intermediate Instrumental and Choral Conducting." Eff. II 93-94.
- 400c. Change course title to "Campus Band." Eff. II 93-94.
- 500c. Change course title to "Campus Band." Eff. II 93-94.

Near Eastern Studies (NES)

- 203a-203b.- Course number changed from "403a-403b" to "203a-203b." Title: "Intermediate Modern Hebrew." Eff. I 94-95
- 303.- Add: "Advanced Hebrew (3) [Rpt.] I II (Identical with JUS 303)." Eff. I 94-95.
- 403a-403b.- Change course number from "403a-403b" to "203a-203b." Eff. I 94-95.

Nursing (NURS)

- 548. Delete "Statistical Packages in Research (3)." Eff. II 93-94.
- 588. + Change course title to "Healing Systems in the Southwest." Eff. II 93-94.

Nutrition and Food Science (N FS)

- 101. Change course prefix from N FS to N SC. Eff. II 93-94.
- 102H. Change course prefix from N FS to N SC. Eff. II 93-94.
- 197a. Change course prefix from N FS to N SC. Eff. II 93-94.
- 208. Change course prefix from N FS to N SC. Eff. II 93-94.
- 220. Change course prefix from N FS to N SC. Eff. II 93-94.
- 238. Change course prefix from N FS to N SC. Eff. II 93-94.
- 251. Change course prefix from N FS to N SC. Eff. II 93-94.
- 280. Change course prefix from N FS to N SC. Eff. II 93-94.
- 299. Change course prefix from N FS to N SC. Eff. II 93-94.
- 299H. Change course prefix from N FS to N SC. Eff. II 93-94.
- 301. Change course prefix from N FS to N SC. Eff. II 93-94.
- 310. Change course prefix from N FS to N SC. Eff. II 93-94.
- 340. Change course prefix from N FS to N SC. Eff. II 93-94.
- 358. Change course prefix from N FS to N SC. Eff. II 93-94.
- 396H. Change course prefix from N FS to N SC. Eff. II 93-94.

- 399. Change course prefix from N FS to N SC. Eff. II 93-94.
- 399H. Change course prefix from N FS to N SC. Eff. II 93-94.
- 408. Change course prefix from N FS to N SC. Eff. II 93-94.
- 411. Change course prefix from N FS to N SC. Eff. II 93-94.
- 440. Change course prefix from N FS to N SC. Eff. II 93-94.
- 441. Change course prefix from N FS to N SC. Eff. II 93-94.
- 443. Change course prefix from N FS to N SC. Eff. II 93-94.
- 447. Change course prefix from N FS to N SC. Eff. II 93-94.
- 448. Change course prefix from N FS to N SC. Eff. II 93-94.
- 458. Change course prefix from N FS to N SC. Eff. II 93-94.
- 459. Change course prefix from N FS to N SC. Eff. II 93-94.
- 460. Change course prefix from N FS to N SC. Eff. II 93-94.
- 463. Change course prefix from N FS to N SC. Eff. II 93-94.
- 468. Change course prefix from N FS to N SC. Eff. II 93-94.
- 470. Change course prefix from N FS to N SC. Eff. II 93-94.
- 471. Change course prefix from N FS to N SC. Eff. II 93-94.
- 498H. Change course prefix from N FS to N SC. Eff. II 93-94.
- 499. Change course prefix from N FS to N SC. Eff. II 93-94.
- 499H. Change course prefix from N FS to N SC. Eff. II 93-94.
- 520. Change course prefix from N FS to N SC. Eff. II 93-94.
- 540. Change course prefix from N FS to N SC. Eff. II 93-94.
- 541. Change course prefix from N FS to N SC. Eff. II 93-94.
- 547. Change course prefix from N FS to N SC. Eff. II 93-94.
- 558. Change course prefix from N FS to N SC. Eff. II 93-94.
- 559. Change course prefix from N FS to N SC. Eff. II 93-94.
- 563. Change course prefix from N FS to N SC. Eff. II 93-94.
- 568. Change course prefix from N FS to N SC. Eff. II 93-94.
- 570. Change course prefix from N FS to N SC. Eff. II 93-94.
- 571. Change course prefix from N FS to N SC. Eff. II 93-94.
- 572. Change course prefix from N FS to N SC. Eff. II 93-94.
- 596n. Change course prefix from N FS to N SC. Eff. II 93-94.
- 599. Change course prefix from N FS to N SC. Eff. II 93-94.
- 601. Change course prefix from N FS to N SC. Eff. II 93-94.
- 602. Change course prefix from N FS to N SC. Eff. II 93-94.

- 609. Change course prefix from N FS to N SC. Eff. II 93-94.
- 615. Change course prefix from N FS to N SC. Eff. II 93-94.
- 620. Change course prefix from N FS to N SC. Eff. II 93-94.
- 622. Change course prefix from N FS to N SC. Eff. II 93-94.
- 628. Change course prefix from N FS to N SC. Eff. II 93-94.
- 630. Change course prefix from N FS to N SC. Eff. II 93-94.
- 640. Change course prefix from N FS to N SC. Eff. II 93-94.
- 663. Change course prefix from N FS to N SC. Eff. II 93-94.
- 665. Change course prefix from N FS to N SC. Eff. II 93-94.
- 672. Change course prefix from N FS to N SC. Eff. II 93-94.
- 693. Change course prefix from N FS to N SC. Eff. II 93-94.
- 693a. Change course prefix from N FS to N SC. Eff. II 93-94.
- 696b. Change course prefix from N FS to N SC. Eff. II 93-94.
- 900. Change course prefix from N FS to N SC. Eff. II 93-94.
- 910. Change course prefix from N FS to N SC. Eff. II 93-94.

Nutritional Sciences (N SC)

- 101. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 102H. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 197a. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 208. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 220. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 238. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 251. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 280. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 299. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 299H. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 301. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 310. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 340. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 358. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 396H. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 399. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 399H. Course prefix changed from N FS to N SC. Eff. II 93-94.

- 408. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 411. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 440. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 441. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 443. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 447. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 448. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 458. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 459. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 460. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 463. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 468. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 470. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 471. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 498H. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 499. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 499H. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 520. Course prefix changed from N FS to N SC. Eff. II 93-94.
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- 571. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 572. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 596n. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 599. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 601. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 601. Home department changed to N SC. New listing under N SC reads "Bioenergetics (2) II 1993-94 Energy utilization and nutrient interactions. Efficiency of energy use in body processes P, 408. Reid." Eff. II 93-94.
- 602. Course prefix changed from N FS to N SC. Eff. II 93-94.

- 609. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 615. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 620. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 622. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 628. Course prefix changed from N FS to N SC. Eff. II 93-94.
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- 640. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 663. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 665. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 672. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 693. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 693a. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 696b. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 900. Course prefix changed from N FS to N SC. Eff. II 93-94.
- 910. Course prefix changed from N FS to N SC. Eff. II 93-94.

Physiology (PSIO)

- 503. Change number of units from "(4)" to "(5)." Change course description to "Through examination of fundamental cellular processes, the integrated function of diverse cell types is discussed. Topics include: mechanisms involved in protein expression, intracellular protein targeting, and regulation of protein function; membrane transport phenomena; cell signaling mechanisms-excitability, ion channels, synaptic function; muscle and vascular cell function. " Eff. II 93-94.
- 575.- Add: "Special Topics in Biological Imaging (2) (Identical with ANAT 575)." Eff. II 93-94.

Planning (PLNG)

- 427.- Add : "Aging and Public Policy (3) I (Identical with PA 427) May be convened with 527." Eff. II 93-94.
- 527.- Course expansion from "527" to "427/527." Eff. II 93-94.

Plant Pathology (PL P)

- 428. + Add semester offering "I II." Eff. I 93-94.
- 516. Change alternate year to "1993-94." Eff. I 93-94.
- 550. Add alternate year "1994-95." Eff. I 93-94.
- 551. Change semester offering from "I" to "II." Add alternate year "1994-95." Eff. I 93-94.
- 575. Add semester offering "I." Change alternate year to "1993-94." Eff. I 93-94.

- 611. Change alternate year to "1993-94." Eff. I 93-94.
- 621. + Change semester offering from "II" to "I." Change alternate year to "1993-94." Eff. I 93-94.
- 694a. Change prerequisite to "P, 551." Eff. II 93-94.
- 694b. Change prerequisite to "P, 551." Eff. II 93-94.

Political Science (POL)

- 443. + Change title and description to "Soviet and Post-Soviet Politics (3) I Surveys the Leninist system and the transition to post-Soviet institutions and norms. Focus on decision-making and models of autocracy and pluralism. Particular attention to Russia, but overview of other post-Soviet successor states." Eff. I 93-94.
- 451. + Change course title and description to: "Soviet and Post-Soviet Foreign Policy (3) I Surveys traditional Soviet foreign policy, Gorbachevian "new thinking," and post-Soviet policy directions. Attention to decision-making process and Soviet and post-Soviet relations with European, North American, and Third World countries. Focus on Russia, but overview of other post-Soviet successor states' foreign policies. (Identical with RSS 451) May be convened with 551." Eff. II 93-94.
- 487. + Course expansion from "487" to "487a-487b." Eff. II 93-94.
- 487a-487b. + Course expansion from "487" to "487a-487b." New listing reads: "Race and Public Policy (3-3) Examines the race issue in the context of American politics. 487a focuses primarily on the African experience in America from 1619, when the first slaves were led into the beach at Jamestown, to approximately 1910 when segregation had replaced slavery. P, 102. 487b focuses on race related events and policies during the urban/industrial transformation, the Depression and New Deal, World War II to the Brown Decision in 1954, the Civil Rights years to the present.. P, 487a. (Identical with AAS 487a-487b and AINS 487a-487b) May be convened with 587a-587b." Eff. II 93-94.
- 543. + Change title to "Soviet and Post-Soviet Politics." Eff. I 93-94.
- 551. Change course title to "Soviet and Post-Soviet Foreign Policy." Eff. II 93-94.
- 584a-584b. + Add crosslisting with LAW. Eff. I 93-94.
- 587. + Course expansion from "587" to "587a-587b." Eff. II 93-94.
- 587a-587b. + Course expansion from "587" to "587a-587b." Eff. II 93-94.

Psychology (PSYC)

- 315. Change course number from "315" to "318." Eff. II 93-94.
- 318. + Course number changed from "315" to "318." Add crosslisting with LING." Eff. II 93-94.

422. Course number changed from "458" to "422." Title: "Psycho pathology." Eff. II 93-94.
430. Add repeatability "[Rpt./3]." Eff. Summer Session I 1993.
458. Change course number from "458" to "422." Eff. II 93-94.
- 507a-507b. Change course description. Delete "Both semesters include an introduction to computerized analytical techniques and software commonly applied in psychological research, such as SAS, SPSSX, BMDP, and EQS." Eff. I 93-94.
522. Delete "Advanced Abnormal Psychology." Eff. I 93-94.
522. Course number changed from "558" to "522." Title: "Psychopathology." Eff. II 93-94.
558. Change course number from "558" to "522." Eff. II 93-94.

Public Administration and Policy (PA)

424. Add: "Management of Long Term Care Facilities and Programs (3) II Problems and principles of management of facilities and community based programs providing health and social services to the chronically impaired. May be convened with 524." Eff. I 93-94.
427. + Add : "Aging and Public Policy (3) I Policy framework for administration of programs, plans, priorities, and legislation related to the needs of the aging in modern society (Identical with PLNG 427) May be convened with 527." Eff. II 93-94.
524. Course expansion from "524" to "424/524." Add "Graduate-level students will be required to produce more papers for the class at administrative level." Eff. I 93-94.
527. + Course expansion from "527" to "427/527." Add "Graduate-level students will be required to produce more papers for the class at higher level." Eff. II 93-94.

Religious Studies (RELI)

225. + Home department changed to RELI. New listing reads: "Introduction to Women and Religion (3) I Ways in which women's religious practices have interacted with religious traditions' constructions of gender. The course asks students to consider how the study of religion can illuminate their own self-understandings and cultural locations. (Identical with WS 225)." Eff. II 93-94.
425. Home department changed to RELI. Crosslist with W S. Title: "Theoretical Issues in the Study of Women and Religion." Eff. II 93-94.
525. Home department changed to RELI. Crosslist with W S. Eff. II 93-94.

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

Renewable Natural Resources (RNR)

546. Change semester offering from "II" to "I." Eff. I 93-94.

Watershed Management (WS M)

435. Add: "Water Management in Dryland Ecosystems (3) I Hydrologic principles as applied to arid and semiarid ecosystems with water management applications in dryland resources management. P, STAT 160 or 263, S W 201. May be convened with 535." Eff. I 93-94.
- 535..+ Course expansion from "535" to "435/535." Add "Graduate-level requirements include a report and oral presentation on a topic related to hydrology or water management in dryland ecosystems." Eff. I 93-94. [Note to RIM: Course is crosslisted with AR L at 500-level only].

Wildlife and Fisheries Science (WFSC)

- 555R. + Delete crosslisting with V SC. Eff. I 93-94.

Russian and Soviet Studies (RSS)

- 443.- Change title to "Soviet and Post-Soviet Politics." Eff. I 93-94.
- 451.- Change course title to : "Soviet and Post -Soviet Foreign Policy." Eff. II 93-94.
543. Change title to "Soviet and Post-Soviet Politics." Eff. I 93-94.

Sociology (SOC)

- 412.- Change alternate year to "1993-94." Eff. I 93-94.

Soil and Water Science (S W)

- 428.- Add semester offering "I II." Eff. I 93-94.
565. Change course title and course description to "Contaminant Transport in Porous Media (3) II 1994-95 The transport of contaminants in the subsurface environment. Effects of dispersion, interphase mass transfer, transformation reactions, and porous-media heterogeneity on transport; covers aqueous (dissolved) and multiphase (immiscible liquid, gas) systems. P, 570 or HWR 518 or 531. (Identical with WS M 565). Eff. I 93-94.

Spanish and Portuguese (SPAN/PORT)

Spanish (SPAN)

403. + Delete crosslisting with ENGL. Eff. II 93-94.

Special Education and Rehabilitation (SER)

- 597m.- Add: "Counseling Mexican Americans (3) I S." Eff. Pre-session 1993.

Statistics (STAT)

263. Change prerequisites to "P, MATH 119, 123." Eff. I 93-94.
548. Home department changed from NURS to STAT. Change title and course description. New listing reads as follows: "Introduction to Statistical Packages (3) I Basic structure of general purpose statistical software. Data formats, storage and transmission. Relation between hardware and software. Usage of major statistical packages SAS, BDMP, and SPSS on both personal and mainframe computers. Open to graduate students in all disciplines." Eff. II 93-94.
611. Change course number from "611" to "661." Title: Probability Foundation of Mathematical Statistics." Eff. I 93-94.
661. Course number changed from "611" to "661." Eff. I 93-94.

Theatre Arts (T AR)

431. Change course title to "Audience Development." Eff. I 93-94.
531. Change course title to "Audience Development." Eff. I 93-94.
642. Add repeatability "[Rpt./1]." Eff. I 93-94.

Veterinary Science (V SC)

- 428.- Add semester offering "I II." Eff. I 93-94.
- 555R.- Delete "Fishery Management." Eff. I 93-94.

Women's Studies (WS)

- 225.- Change home department to RELI. WS is crosslisted department. Listing under WS should read "Introduction to Women and Religion (3) I (Identical with RELI 225)." Eff. II 93-94.
425. Change home department to RELI. WS is crosslisted department. Eff. II 93-94.
525. Change home department to RELI. WS is crosslisted department. Eff. II 93-94.

- + After course number, designates the home department of a course with crosslisting(s)
- After course number, designates a crosslisted department.

UNIVERSITY OF ARIZONA
OFFICE OF THE REGISTRAR

SUMMARY OF DEGREES TO BE COMPLETED AUGUST 12, 1993

COLLEGE OF AGRICULTURE.....	30
SCHOOL OF FAMILY AND CONSUMER RESOURCES.....	57
COLLEGE OF ARCHITECTURE.....	8
COLLEGE OF ARTS AND SCIENCES:	
INTERDISCIPLINARY (GENERAL) STUDIES.....	40
FACULTY OF FINE ARTS.....	126
FACULTY OF HUMANITIES.....	104
FACULTY OF SCIENCES.....	82
FACULTY OF SOCIAL AND BEHAVIORAL SCIENCES.....	419
COLLEGE OF BUSINESS AND PUBLIC ADMINISTRATION.....	274
COLLEGE OF EDUCATION.....	26
COLLEGE ENGINEERING AND MINES.....	57
COLLEGE OF NURSING.....	0
SCHOOL OF HEALTH RELATED PROFESSIONS.....	11
COLLEGE OF PHARMACY.....	2
TOTAL NUMBER OF UNDERGRADUATE DEGREES.....	1,236
COLLEGE OF LAW.....	5
COLLEGE OF MEDICINE.....	2
TOTAL NUMBER OF PROFESSIONAL DEGREES.....	7

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COLLEGE OF Agriculture

BS in Agriculture

Agricultural Economics

James Monroe Champie III	Jenessa Ramirez Hermosillo	
Yoshitaka Iijima	Jesus Alberto Lopez Zavala	
Christopher Warren Sessler		
	TOTAL STUDENTS =	5

Agricultural Education

Wayne Alan Manske	TOTAL STUDENTS =	1
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Animal Health Science

Stacy A. Alexander	TOTAL STUDENTS =	1
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Animal Sciences

Prunell Charley	Christina Lee Gindt	
Alain William Kalcheim	Michael Thomas Mallin	
Carry Lynn Shulock		
	TOTAL STUDENTS =	5

General Agriculture

James Gillespie Bertelsen	Matthew Todd Mellon	
James Ghaston Osborn	Donald James Weingartner	
	TOTAL STUDENTS =	4

Nutritional Sciences

Denise S. Coyle	Jessica Leigh Angel Dotson	
Alicia Anne Heller	Kathryn Kartchner Huber	
Elizabeth A. McNary	Melissa Dawn Schauermaun	
David Stephen Snodgrass	Kenneth Valdivia	
	TOTAL STUDENTS =	8

Plant Sciences

Teresa Catherine Reen	TOTAL STUDENTS =	1
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Veterinary Science

Heather Matthews Bennett	Janet Ann Foley	
	TOTAL STUDENTS =	2
	TOTAL DEGREES AWARDED =	27

BS in Renewable Natrl Res

Watershed Management

Mark Allen Bennett	TOTAL STUDENTS =	1
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Wildlife & Fisheries Sci

Alan Lyle Mckinley	Mary Patricia Yahn	
	TOTAL STUDENTS =	2
	TOTAL DEGREES AWARDED =	3
	TOTAL DEGREES FOR THIS COLL	30

SCHOOL OF Family & Cons

BS in Family & Consumer Res

Child Dev & Family Rel

Teresa Marie Botelho	John Richard Gamez	
Michelle Lee Garren	Barbara Christina Valenzuela	
	TOTAL STUDENTS =	4

Clothing & Textiles

Valerie Jane Rice	TOTAL STUDENTS =	1
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Family & Consum Resour

Nicole Rene Bowers	William J. Grant	
Hilare Anne Hinkle	Kristi Marie Kamis	
	TOTAL STUDENTS =	4

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SCHOOL OF Family & Cons

BS in Family & Consumer Res

Family Studies

Melissa Jeanne Badowski	Margaret May Baker	
Sondra Lynn Bracale	Phyllis Gail Cartin	
Lauri Robin Cohen	Brenda Lee Dunn	
Erin Ruth Fichtl	Maria Teresa Heath	
Vanessa Jurahui	Bill Kennedy	
Denise Mary Kingman	Jennifer Marie Linder	
Melissa Lipton	Mark Edward Martyn	
Kenneth Craig Mckittrick	Kirsten Elizabeth Miller	
Jennifer Cecilia Poole	Kelli Ann Schatz	
Karen Ann Secrest	Teresa Marie Serge	
Elisabeth Elaine Strapac	Ava N. Taussig	
Martin Joseph Twohill	Michele Beth Wolovits	
Jamie Paige Zacharia		
	TOTAL STUDENTS =	25

Home Economics Education

Penny Lou Dapser	Rebecca Rae Moore	
	TOTAL STUDENTS =	2

Interior Design

Katherine Rose Gribbins	Oweta Coza Josleyn	
	TOTAL STUDENTS =	2

Merchandis & Consum Stds

Lainie Jennifer Arbesfeld	Dana Michele Clark	
Tanya Lee Goldenberg	Lisa Paige Hamilton	
Leah Marie Verrant	Tara Lynn Wagenhals	
	TOTAL STUDENTS =	6

Merchandis & Fashion Promo

Marci Dayle Crone	Michelle Marie Gleason	
Marnie F Handel	Julie Dyan Holloway	
Joanna Helene Josephson	Carmin Marie Mckean	
Lydia Sandoval	Elizabeth Louise Schneider	
Kelly Marie Soulliard	Laura Marie Stanley	
Jordana R. Tygiel	Debra Denise Waldron	
	TOTAL STUDENTS =	12
	TOTAL DEGREES AWARDED =	56

BS in Home Economics

General Home Economics

Judith Scott Glasgow		
	TOTAL STUDENTS =	1
	TOTAL DEGREES AWARDED =	1
	TOTAL DEGREES FOR THIS COLL	57

COLLEGE OF Architecture

Bachelor of Architecture

Architecture

Roberta Taka Aono	John Birkinbine III	
Sean William Hartigan	Shelley Kristine Lewison	
Jennifer Leigh Nass	Joseph Chandler Powell	
Karin Rosenquist	Troy Robert Weiland	
	TOTAL STUDENTS =	8
	TOTAL DEGREES AWARDED =	8
	TOTAL DEGREES FOR THIS COLL	8

COLLEGE OF A & S - General

Bachelor of Arts

General Studies

Tylene Denise Aldridge	Robert C. Ashley
Steven Frank Austin	Amy Lisa Bittman
Jennifer Gena Brockway	Jennifer Elisabeth Chatfield
Margaret Bronwyn Erlebach	Brian McInerney Flynn
Reva Mariah Salomin Gover	Scott Alan Hammond
Lara L. Hansel	Thomas Daniel Jagielski
Michele Marie Landreville	Monica A. Lopez

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COLLEGE OF A & S - General

Bachelor of Arts

General Studies

George P. Malauulu	Theodore John Parvu Jr.
Christina Marie Patriarca	Amy Beth Powell
Christy Lynn Roberts	Robert Ian Sandler
Cletia Rocena Scott	Glen Carver Sonnenberg
Sean C. Van Voorhees	Matthew Fielding Veazey
Gerald Eric Webster	Michael Frederick Wilson
	TOTAL STUDENTS = 26

Interdisciplinary Studies

Christine Katherine Biggs	Joseph William Boehm
Robin Suzanne Buck	Michael Charles Cain
Anne Barrett Hitchcock	Kathleen Margaret Mahon
Mary Jane Makaio	Susannah Rebecca Schwartz
Jennifer Holman Smith	Daniel Jay Solomon
Molly Ford Swingle	Dina M. Thomason
Christopher John Tiffany	Hilary Timbanard
	TOTAL STUDENTS = 14
	TOTAL DEGREES AWARDED = 40
	TOTAL DEGREES FOR THIS COLL = 40

COLLEGE OF A & S - Fine Arts

Bachelor of Arts in Art

Art History

Kelli Ann Hill	Melissa A. Mancini
Wendy Renee Monahan	
	TOTAL STUDENTS = 3
	TOTAL DEGREES AWARDED = 3

BA in Media Arts

Media Arts

Jay Vane Alston	Brandon Thomas Auslander
Ashley Austin Barker	Stacia Ann Barton
Jennifer Kathryn Brown	Pamela Jan Cartwright
John Tower Churchill	Alisa Mechelle Daggett
Kelley Katherine Day	Jennifer Florence Dow
Steven Paul Elton	Alex Daniel Herskowitz
Sabrina Ann Jordan	Elizabeth Ann Kennedy
Christopher Paul Lee	Mandi Elizabeth List
Erika Kirsten Mitnik	Suzanne Elise Rauscher
Cathy Ann Schwartz	Paula Lynn Spector
Lyn Anne Swyryd	Claire Michelle Tesh
Amy Catherine Zahra	
	TOTAL STUDENTS = 23
	TOTAL DEGREES AWARDED = 23

Bachelor of Arts in Music

Music

Lael Timblin Mcgehee	Jennifer Gail Wiley
	TOTAL STUDENTS = 2
	TOTAL DEGREES AWARDED = 2

Bachelor of Fine Arts

Art Education

Marcus Anthony Basurto	
	TOTAL STUDENTS = 1

Dance

Deborah Lynne Silverman	Julie Elizabeth Wegner
	TOTAL STUDENTS = 2

Drama Education

Kelly Kristine Perry	
	TOTAL STUDENTS = 1

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COLLEGE OF A & S - Fine Arts

Bachelor of Fine Arts

General Fine Arts Studies

Jennifer Irene Baker	Susannah Toelle Castro	
Gerald Adrian Gross	Jennifer A Hamilton	
Elena Susanna Hinskey	Kathryn Ann Honig	
Joanne Theresa Lamb	Margo Danielle Pagnini	
Jessica Lee Feige Shuman	Elizabeth Sommers	
Kendra Yannostran		
	TOTAL STUDENTS =	11

Media Arts

Donald Richard Adams	Damon E. Amedeo	
Cherelynn Marie Baker	Andrew Michael Barnet	
Jerome Hunt Blancas	Bari Michele Block	
Phillip Gray Buckner	Alison Anne Burke	
William Blaine Cline	Courtney Anne Cook	
Lisa Amy Cooper	David Paul Dozoretz	
Gerardo Espinosa	David Christian Hager	
Phillip Andrew Hamilton	Marc Jeffrey Hoffberg	
Mark Evan Kates	Bonnie Josanne Keene	
Elizabeth Margaret Kerlin	Geoffrey Van De Wat Knight	
Joseph Adams Lamb	Nichole Lynne Lechmanik	
Jordan Harris Lichtman	Kenneth John Little Jr.	
Andrew Jay London	Heather Renee Luegering	
Theodore Sean Maier	Paul Robert Mark	
Steve Charles Marlow	Tracy Lynn Mascarucci	
Gary Robert McIntosh	Constance Lorraine Miller	
Allison Lee Overbeke	Christopher Milo Pizula	
Carl Michael Jr. Rebman	Jodi Sue Reiner	
Morgan Christopher Ringwald	Scott Alan Rovin	
Stephen Ronald Sevok	Michelle Lee Tountas	
Efram Turchick	Kurt Eugene Weller	
Gregory A. Wise	Jane Adrienne Yates	
Kenneth J. Zimet		
	TOTAL STUDENTS =	45

Studio Art

Anna Theresa Amayisca-Gaines	Larry Edward Battistello Jr.	
David Alexander Belcheff	Tanner E. Bryson	
Elizabeth Anne Burnham	Patrick McGuire Casanova	
Eugenia Yu-Wan Chang	Bridget Sheering David	
Mendy Sue Davis	Jean Francois De Buren	
Vanessa Gilbert	James Aelred Graham	
Yoshitomo Iwamoto	Dawne Rachael Jones	
Jennifer Rebecca Leonard	Cori Alyse Levine	
Bennett Anthony McGregor Jr.	Jonathan Millard	
Sonya Lynn Nash	Rex G. Reason	
Carl Michael Jr. Rebman	Gilbert Raymond Rodriguez	
Todd Edward St. John	Brian R Steele	
Debra Ann Vasquez	Jamie Monique Wade	
Roland Tom Wong		
	TOTAL STUDENTS =	27

Theatre Production

Robert C. Cannon	Eric Sewall Nelson	
Bryan Ross Schlegel		
	TOTAL STUDENTS =	3
	TOTAL DEGREES AWARDED =	90

Bachelor of Music

Music Education

Diana Lynn Davidson	Dianna Sue Merriman	
	TOTAL STUDENTS =	2

Performance

Dien Cong Tran		
	TOTAL STUDENTS =	1

Performance (Percussion)

Daniel Lee Thomas		
	TOTAL STUDENTS =	1

Performance (Piano)

Patricia Hamilton Brown		
	TOTAL STUDENTS =	1

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COLLEGE OF A & S - Fine Arts

Bachelor of Music

Performance (Violin)

Carlie Jean Helgason
TOTAL STUDENTS = 1

Theory & Composition

Jesus Manuel Contreras Teruya Ida
TOTAL STUDENTS = 2
TOTAL DEGREES AWARDED = 8
TOTAL DEGREES FOR THIS COLL 126

COLLEGE OF A & S - Humanities

Bachelor of Arts

Classics

James Christie Carlson
Diana C. Mead
Stacy Logan Rudolph
* Jeanenne Sue Cooke
Teresa Kathleen Moreno
Leslie Ayn Stroz
TOTAL STUDENTS = 6

Creative Writing

Kristen Anne Alberich
David Christopher Buntz
* Manuel-Javier Negre Gomez
Scott Michael Karp
Katherine Elizabeth Margolis
Stephanie Alexandra Reisin
Charles Ransom Siler
Karen Christine Springer
Judith Goodwin Turner
* Scott Douglas Brown
Lila O'Brien Carroll
Jennifer Ruth Harris
* Jennifer Ann Kash
Donald P. Murray
Mark Eric Schenk
Daniel Patrick Smith
* Laura Johanna Swisher
William Tyree
TOTAL STUDENTS = 18

English

Melissa Ann Adams
* Susan Christine Brower
Myron Eugene Cross III
Rebecca Courtney Edmonds
Richard Duane Foust III
Eric Lee Golembiewski
Norman Eugene Hiatt
* Jennifer Ann Kash
Dawn Patrice Lewis
J Aimee Camille Mason
Dawn Robin Nusbaumer
Julia Erika Reaney
Elizabeth Dorothy Rosen
Andrea Jane Westwater
* Laurent Richard Geo Badoux
* Edison Duane Cassadore
Scott I. Edlitz
Keely Christine Finnegan
Michael L. Geimer
Adam Christopher Hartmann
Thomas Henry Ivory
Nancy Anne Kelleher
Katherine Elizabeth Malone
Lucas Moseley
Dawn Angela Olivas
Joseph Anthony Rogers
John Schechter
Heidi Michelle White
TOTAL STUDENTS = 28

French

* Laurent Richard Geo Badoux
Joann Cranfill Cook
Katherine Austin Gordon
Kristin Isabel Merikangas
* Sara Leslie Benoit
* Marianne Christina Fiorelli
David John Luebke
* Catherine Denise Strittmatter
TOTAL STUDENTS = 8

German

Peter Karl Moser
Tracia Christine Strasburg
* Catherine Denise Strittmatter
* Rudolfo Eric Polak
William Thomas Streed
Benjamin Dwight Vanlandingham
TOTAL STUDENTS = 6

Italian

Roxanne Rina Riddle
TOTAL STUDENTS = 1

Latin

* Susan Christine Brower
TOTAL STUDENTS = 1

Portuguese

David Rees Gontijo Jones
TOTAL STUDENTS = 1

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COLLEGE OF A & S - Humanities

Bachelor of Arts

Religious Studies

* Florence Stukes Becker	* Bettina Marie Celaya	
* Mark A. Kofler		TOTAL STUDENTS = 3

Russian

Erika Christine Anderson	* Sara Leslie Benoit	
Steven Samuel Cutting	* Maria Geraci Perrin	
Brad James Kornreich	Julie Ann Laverman	
Kristine Leigh Stoner	Nathaniel Hawthorne Washington	TOTAL STUDENTS = 8

Spanish

Joseph Edward Brabant	Rachel Elizabeth Brennan	
Ana Haydee Cabrera	Cristina Campos	
Caylin Jenan Combs	Iliana Cornejo	
Maude Stephenson Davis	Jose J. Figueroa	
Peter Gonzvar	Michelle Leonor Hoyos	
Christopher Todd Hummel	Rodney Alan James	
Gianna Lee Kagan	Eric Stuart Kanter	
Beth Diane Lehman	Lara Michelle Long	
Linnea Annette Nigro	Emily Milagros Poits	
Stacy Redondo	Carmen C. Rodarte Rosas	
* Laura Johanna Swisher	Maria G. Valencia-Barcel	
Brandy Lee Vanderheiden	Rita A. Vogel	
	TOTAL STUDENTS =	24
	TOTAL DEGREES AWARDED =	104
	TOTAL DEGREES FOR THIS COLL =	104

COLLEGE OF A & S - Sciences

Bachelor of Arts

Biochemistry

John Greatwood Class		TOTAL STUDENTS = 1
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Ecology & Evolutionary Biol

Anita Louise Alsup-Page	Heather Lea Fitzsimmons	
	TOTAL STUDENTS =	2

Mathematics

David Scott Paul	Anthony Dee White	
Dawn Eileen Young		TOTAL STUDENTS = 3
		TOTAL DEGREES AWARDED = 6

Bachelor of Science

Astronomy

Patrick Ronald Fimbres	* Janice Darlene Houston	
	TOTAL STUDENTS =	2

Atmospheric Sciences

Joseph John Golemboski	Michael Joseph Lauden	
	TOTAL STUDENTS =	2

Biochemistry

Jon Peter Flash Bartnek	ANTHONY RAY CAMPOS	
Irene Argosino De Leon	Matthew Kent Essary	
Rebecca Page		TOTAL STUDENTS = 5

Chemistry

Lisa Jean Akturk	Richard Andrew Barber	
Keith John Diamanti	Rodney Gary Glazener	
	TOTAL STUDENTS =	4

Computer Science

* Dawson Richards Engler	Eric Joseph Hilz	
Greg Lee Nygard	Donald Arthur Parslow Jr.	
Jeffrey O'Neil Sandfort	Clorinda Trujillo	
	TOTAL STUDENTS =	6

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COLLEGE OF A & S - Sciences

Bachelor of Science

Ecology & Evolutionary Biol

Jennifer Carol Carpenter	Samuel James Jorgensen	
	TOTAL STUDENTS =	2

General Biology

Stephen Morgan Kurtin	Ann Christine Lazar	
Adriene Murphy Mcleod	Catherine Ann Revere	
Shaula B Rhodes	Bakot Sende	
Mercy Lynn Vaughn	Jennifer Wall	
Michael Joseph Zerella		
	TOTAL STUDENTS =	9

Mathematics

Khaled Saad Al-abdullah	John Marvin Awalt	
Dawn Marie Bolstad	Sigalit Devorah	
Michael David Dubin	* Dawson Richards Engler	
Clinton Stuart Mcgarvin	Jeffrey James Nelson	
Donald Craig Newburn	Greg Lee Nygard	
Rebecca Page	Caroline Sue Skowronski	
	TOTAL STUDENTS =	12

Microbiology

Samira Mohamednur Abdu	Aaron Allan Agajanian	
James Harrion Handzel Jr.	Rachel Louise Nichols	
Diane Marie Piar	Laura Jean Sumner	
	TOTAL STUDENTS =	6

Molecular & Cellular Biol

Daniel Glen Baldwin	Jason Richard Metz	
Tark Morgan Rush	Maribeth Ann Schade	
Kyle Newell Sikes		
	TOTAL STUDENTS =	5

Physics

Jonathan Charles Bernreuter	* Amy C. Doud	
Michael Scott Grady	Janice Darlene Houston	
Russell Spence Witte		
	TOTAL STUDENTS =	5
	TOTAL DEGREES AWARDED =	58

BS in Geosciences

Geosciences

Christopher Jon Berkey	Mary Beth Svoboda Booth	
Dana Reed Chapman	Robert Thomas Harrington	
Kalli Ann McCulloch	Chris P Schultz	
Lisa Ann Verts	Don James Zeiser Jr.	
	TOTAL STUDENTS =	8
	TOTAL DEGREES AWARDED =	8

BS in Speech and Hearing Sci

Speech & Hearing Sciences

Margaret Genevieve Gmelich	Barbara Anne Green	
Risa Michelle Herman	Tiffany Lynn Johann	
Kristina Carrie Keeler	Jodi Levine	
Nadine Marie Marin	Deverie Jana Samuels	
Sabrina Lyn Sanders	Yvette Silverman	
	TOTAL STUDENTS =	10
	TOTAL DEGREES AWARDED =	10
	TOTAL DEGREES FOR THIS COLL =	82

COLLEGE OF A & S - Social & Behav Sci

Bachelor of Arts

Anthropology

Steven Michael Acuna	Nancy Christine Bell	
* Amanda Gayle Brewer	Oran T. Carr	
Edison Duane Cassadore	Edison Duane Cassadore	
Matthew Jerome Clinton	Francine Lara Conklin	
Eric J. Frahm Jr.	Jennifer Ann Gerth	
Jennifer-grae Gilmore	Karin M. Glinsky	
Claudia S. Harris	John Paul Kattenburg	

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COLLEGE OF A & S - Social & Behav Sci

Bachelor of Arts

Anthropology

Michael Emory Kelly	Heather I Kotler
Sarah Kuser	Steven Andrew Lopez
Laura Claire Lynch	Julie Ann Mannell
Joanna Lee Martin	Joshua David May
Belen Montijo-vasquez	* Teresa Kathleen Moreno
James Joseph Moses	* Matthew Michael Nardi
Gloria Ann Ohnesorgen	Jami Leah Parsons
* Pamela Joy Paul	Lisa Sheppard Scheff
Kimberly Lauren Schiff	Christopher Thomas Schumacher
Julia Elizabeth Spining	* Rikki Shawn Youngworth
	TOTAL STUDENTS =

34

Communication

Rick Arreola	Suzanne Robinson Bedinger
Robert Joseph Bloom	Lisa Caroline Bohm
Diane Elizabeth Boy	Taylor Reed Brockbank
* Scott Douglas Brown	Katherine Margaret Burns
Lara Kay Chin	Thomas Jefferson Crume IV
Nicole Anne Cryer	John Allan Daley II
Eva Maria Eldridge	Robert Michael Friedlander
Jon Emil Fritz	Phoebe Jane Callaher
* Steve Ralph Godfrey	Amy Michelle Goldsmith
Mary Ann Greene	Chris D Harris
Kathleen Anne Hartman	Karen Hatfield
Lisa Holman Hendricks	Shana L Jablo
Gary Arthur Jensen	Kate Eileen Kuligowski
Adam Mark Lava	Ronald Steven Leimbach
Todd Michael Mazon	Alice Marie Mcglynn
David Benjamin Metzler	Martha Alicia A. Moises
Anne Marie Molinari	Timothy Michael Moore
Julie Elizabeth Newborg	Christine Ann Newman
Beth Emily O'Rourke	Elizabeth Rebecca Pachella
Jason Michael Paradis	Deborah Sue Petreust
Sharon Michelle Pettitt	David Paul Pies
Tracey Elizabeth Preiser	Ann Elise Rahn
Erik Wade Risbrudt	Jennifer Louise Robins
Rachel Ann Rodriguez	Amy Frances Rose
Theodore Gregory Serrano	Leslie Louis Shannon
Jason James Shepard	Ivan G. Sher
Steven Robert Spanjer	Stephen Lawrence Stern
Curt Edward Stinson	Kalyn T. Stith
Jeffrey Robert Sweet	Caryn Michelle Sykes
Lisa Marie Taylor	Timothy Martin Thomas
Julie Ann Thomason	Mary Therese Thomson
Michaela Maltzer	Sally Elizabeth White
Robert Martin Young	Kathryn Lynn Yturri
Marisol Elisa Zell	
	TOTAL STUDENTS =

67

Economics

Abdul Razak Abdul Malek	Jeffrey Michael Bell
Mark Leon Bell	Mercedes Griselda Bernal Lopez
Matthew Christian Bradford	Michael Jonathan Floyd
David Joseph Fortune	David Michael Foster
Patrick Joseph Gauna	Christina Susanne Gingerich
Lara Margret Gramlich	Christopher Noel Henderson
Salina Bie Kassim	Peter Michael Kaufman
Jason Kenneth Martone	Carrie Jo Mitricks
Brett Malcolm Norman	* Elizabeth Ann-garci Oros
Scott Osumi	Desiree Juul Palmer
Raja Ridzwa F Raja Abdul Aziz	Chad Eugene Settle
Steven Clark Seyller	Kyle Stephen Suko
Alphalyn Monique Thomas	Henry Yen-chang Tsang
Darius Manuel Vasquez	
	TOTAL STUDENTS =

27

Geography

Hayne T. Austin	* Kemberly Ann Carpenter
Megan Katherine Davis	Deborah Rose Wildeman
	TOTAL STUDENTS =

4

History

Stacy Ann Bacon	Jeffrey James Bell
Grant Michael Bray	John Brice Clagett
David Andrew Cosgrove	* Maria Geraci Perrin
John Raymond Gorey	Cherie Ann Hufford
Craig Alexander Jacobs	Charles John Koehn
Lori Anne Kucsmas	Merrill Clark Kullbom III
Joseph Jason Lear	* Keith Eric Levinson
Adam Ross Liberman	Ryan Patrick Malone
Paul William Maslona	Colin L Miller
Chris Morbeto	Evan Charles Orman

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COLLEGE OF A & S - Social & Behav Sci

Bachelor of Arts

History

* Jonathan J. Paull Jennifer Marie Ross Morris Charles Schwartzberg Christian Todd Stough Shelly Alix Vogt	George Scott Piper Jay Sturgis Ruffner Jr. Michelle Glenith Shackley Norman Alexander Thomas James Stephen Weber	TOTAL STUDENTS = 30
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Journalism

* Julie Diane Bacon Bettina Marie Calaya Richard John Konopka Jr. Sherri Morgan MacDonald Shannon Lee Pantelis Tanisha Nichole Price Lisa Marie Schumacher Carolyn Robinson Stevens Brian Terence Vance Elizabeth Ann Zandee	Jennifer Ann Belcher John Luke Hanagan Thomas Francis Lisa Melissa Carol Morris Andis Petros Petrou Crystal Yvette Renfrow Michelle Marie Sheetz Linda Jean Taubert Tonya Mariama Williams	TOTAL STUDENTS = 19
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Judaic Studies

Tamara J Hared	TOTAL STUDENTS = 1
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Latin American Studies

Daniel Strauss Hawranek	Thomas Toshiro Ryan	TOTAL STUDENTS = 2
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Linguistics

Joanna Lee Martin Laura Elizabeth Steigmann	* Pamela Joy Paul Rachel Lee Wilson	TOTAL STUDENTS = 4
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Mexican American Studies

* Manuel-Javier Negre Gomez Aaron Ismael Mendez	Victor Gomez	TOTAL STUDENTS = 3
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Near Eastern Studies

Kenneth Michael Elder	TOTAL STUDENTS = 1
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Oriental Studies

Catherine Ann Hoffman	TOTAL STUDENTS = 1
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Philosophy

Mark Steven Boswell Eric Matthew Green Cherise Janell Mahaffey Philip Nelson Wright	* Charles Alexander Bryden Mark A. Kofler Jaime Jo Mangine	TOTAL STUDENTS = 7
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Political Science

* Joseph Achille Arlene Jessica Antone Jamee Gwin Backus Michael Spencer Beaton John Russell Boekenoggen Christopher Robert Boris Christopher Michael Cargile Shauna Liza Chiappella Gregory Scott Coleman Steven Michael Connelly Michelle Crisantes Yurikino Cenit Downing Garcia Bernard William Elsner II * Marianne Christina Fiorelli Ricardo Esteban Flores Veronica Kari Fruhwirth Channin Marie Gladden Jeffrey Joseph Gordon Darci R Hilgendorf Scott Alan Josephson Ivan Viktor Krieg Derick Paul Mains Jason Spirro Mannos	John Mike Anagnopoulos Christopher Mario Arcadia Frederick Carlton Barr Pierre-Julien Berthet Keenan Elizabeth Bolin Michael Wilford Brewer Thomas David Carlson John Casey Clark Jr. Mariano Heath Conley Gloria Elena Cota-Robles Richard Andrew Del Principe Kevin Michael Dutka Christopher Fabricant Shelby Anne Flint James Brian Franks Timothy Patrick Furrier Jason Peter Goldstein Lisa Marie Gorog Leslie Ann Elizabeth Johnson Kevin Joseph Keaney Bryan Adam Levenson Benjamin Churchill Malley Kristi Michael Martin
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COLLEGE OF A & S - Social & Behav Sci

Bachelor of Arts

Political Science

Keith Charles Martyn	Fernando Javier Maruri	
* Matt Earl Mccray	Paul David McKay	
John Stephen McNeill	Nicole Lynn Mehringer	
Jeoff Scott Meredith	John Frederick Montgomery	
James Daniel Moore	Eric Michael Munzinger	
Lia Marie Noyes	David Gabriel Ornelas	
Jason David Ostrich	Bonnie Lynn Payne	
Mary Ann Penczar	* Rudolfo Eric Polak	
Aaron Carrillo Ponce	Patrick Lee Radke	
Kirsten Erika Ridgway	David Jeffrey Roberts	
* Jennifer Marie Ross	Sandra Renee Schaad	
Michael Scott Schaffer	Cynthia Renee Schepps	
Cory Steven Schulz	Adrian Michael Schumacher	
Paul David Shapiro	Victor Jose Silveiro	
Christian John Stanley	Nicholas Joseph Stroia	
Thomas Neal Sutton	John David Toon	
Steve A. Torres	Thomas F. Turner	
Valerie Noelle Tyler	Alma Angelina Vasquez	
Kelly Jonathan Walker	Renee Marie Weadock	
Michelle M Weaver	Brett Michael Weinstein	
* Stephanie A. White	Tecumseh Whitfield III	
Matthew Adam Yarvis		
	TOTAL STUDENTS =	89

Psychology

David Ellis Barfield	Carolyn Jean Bell	
Christine Kay Boren	Kelley Augusta Cagney	
Ethan Cohen	Joel Ray Conger	
Constance Marie Coxon	Jason Stanley Czech	
Lisa Lynne Evers	Joseph Jude Ferro	
Amy B. Feutz	Tyrone Paul Fields	
John W. Florio	* Steve Ralph Godfrey	
Anthony Leroy Gonzales	Nancy Elisabeth Gritzuk	
Brooke Jessica Guralnik	Martha Sharon Hadley	
Victoria Arellano Hall	Jamie Denise Heggen	
Timothy James Heile	Catherine Darcey Hidalgo	
Aaron Tige Hofer	Monica Nicholas Hollenbeck	
Amy Desiree Khasky	Andrea Lynn Lackner	
Michael Richard Mason	Bonnie Jean McClure	
* John Stephen McNeill	Samuel Dennis Meier	
Norkamariah Othman	Sharon Ruth Ozer	
Kathryn Taylor Parrish	Becky Lynn Pfeifer	
Mary Frances Pond	Tracy Ann Porter	
Michelle Theresa Reina	Lyndi Christine Rivers	
Kyle Robinson	Pamela Catherine Salerno	
Carrie Beth Schwartz	Donna Ann Shouse	
Laura Paige Sinclair	Carolyn Irene Sullivan	
Melissa Gaye Ternes	Gregory Russell Trapp	
Susan Rose Waterstradt	* Stephanie A. White	
	TOTAL STUDENTS =	48

Russian & Soviet Studies

* Desiree Juul Palmer	TOTAL STUDENTS =	1
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Sociology

Julie Denyse Alexander	Eric Ballew	
Julie Beth Becker	Anders Edward Bergstrom	
Teresa Louise Boden	Jesus Anthony Bustamante	
Melody Antoniette Crudup	Darren Kyle Daniel	
Jessica Ann Doney	Stephanie Tania Dow	
Robin Lee Ferguson	Patrick William Finn	
Erik Michael Foreman	Claudio Garcia	
Steven Richard Glazer	Jason Mark Goldstein	
Manuela G. Heberle	Melinda Dawn Hendley	
Retha Rose Clark Holland	Kerry Glen Introligator	
Kyle David Jan	Andrew Mark Kaeglein	
Glenn Mathew Kanarick	Beth Ranae Kovatch	
Merris Paige Lenner	Brian Andrew Lippman	
Laronda Ann Lugo	* Ryan Patrick Malone	
Elizabeth Jayne Mason	Colleen Elizabeth May	
Heather Lee Mcilveen	Alberto Mimiaga	
Kristin Ellen Mitchell	* Matthew Michael Nardi	
Matthew Brian Othick	Kimberly Jean Pattison	
Lyonel Richardo Santa Cruz	Kathleen Michelle Schuster	
Kara Schwartzman	Andrew B. Sosnowitz	
Christine M. Stagg	Paula J Steddick	
Anthony James Tang	Lori Ann Vargas	
Elisabeth Jane Wright	Regina Ruth Yazzie	
* Rikki Shawn Youngworth		
	TOTAL STUDENTS =	47

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COLLEGE OF A & S - Social & Behav Sci

Bachelor of Arts

Women's Studies

Shelby Anne Flint	Beth Amanda Newsome	
	TOTAL STUDENTS =	2
	TOTAL DEGREES AWARDED =	387

Bachelor of Science

Psychology

Deron Reed Baker	Laura Anne Canty	
Jonathan Brett Davis	Trina Marie Haney	
Erinn Jessica Herberman-Ellis	Marty Dianne Hill	
Laura Lee Kennedy	Darien John-vucheti Newman	
Brian Jeffrey Ribjat	Michelle S Sansone	
Scott Bradley Sorin	Keith Jeffrey Tucker	
Monica Jane Vander Linden		
	TOTAL STUDENTS =	13

Regional Development

Donn Christopher Alexander	Raymond Joseph Carabotta	
John Patrick Carney	Patrick Thomas Curley	
John G. Darcangelo	Christopher Elens Dow	
Colm David Gallagher	Leonardo Enrique Maturana	
Michael Andrew Padnis	Darren Ross Schackman	
Frederick Martin Seitz	William Howard Selman III	
Bradley Jon Smidt	Todd Steadman	
Dominic Vincent Vicari	Jarrod B. Von Schirach	
Thomas Patrick Walker	Kenneth Jason Weber	
William Joseph Iv Winter		
	TOTAL STUDENTS =	19
	TOTAL DEGREES AWARDED =	32
	TOTAL DEGREES FOR THIS COLL =	419

COLLEGE OF Business & Public Admin

BS in Business Admin

Accounting

Ramez Baassiri	Andrea Lee Baumann	
Jennifer Blair Bertz	Cathleen Anne Borchert	
* Adam Michael Brooks	Lisa Ann Cisneros	
Suzanne Marie Clabourne	* Clint Derek Coghill	
* Charles Winston Cope	Brian Paul Duarte	
* William Anthony Elmquist	Rebecca Lynn Farr	
* Terry Gene	Patricia Ann Gill	
* Drew Michael Herbolich	Bang Kiet Hoang	
Annette Viola Ingman	Juan Carlos Juarez	
* Todd Alan Juhl	Timothy John Kasovac	
James Thomas Kernen	Mary A Kolts	
* Nicos Polyni Kyriacou	Adam A. Langdon	
Jeffrey David Levine	Kim Stephanie Lisiewski	
* Mary Ann Mavinga	Charles Wade Miller	
Carol Wooten Miranda	Rick A. Reynolds	
George Rovithakis	Timothy Allen Russell	
* Esmeralda P. Saldana	Peter Scatena	
* Mohd Nazli Sidek	Sheila Elizabeth Spencer	
* Amy W. Trowbridge	Ronald Anthony Van Wert	
* Maria Elena G. Hamsley	Scott Richard Wattenberg	
Keith Fredrick Williams	Kara Anne Willis	
Douglas Dale Woods		
	TOTAL STUDENTS =	43

Business Economics

* Michele M. Alldredge	* Matthew Peter Apostolik	
Richard Charles Coolidge	Aimee Jill Dimmerman	
Brian Joseph Dreyer	* Lisa L Hart	
Kevin Scott Hoffman	Jeffry Bain May	
David Rascon	* Carlos Hernandez Rico	
Gregg Z. Schonhorn		
	TOTAL STUDENTS =	11

Entrepreneurship

* Chad Steven Montgomery		
	TOTAL STUDENTS =	1

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COLLEGE OF Business & Public Admin

BS in Business Admin

Finance

* Michele M. Alldredge	Douglas V. Andor
* Matthew Peter Apostolik	Ramez Baassiri
Eric R. Baird	William Lester Bangs Jr.
* Adam Michael Brooks	R. Eric Buskirk
Patrick Eugene Byrne	Alejandro Celaya
Chan-fang Chi	Shien Ching Chiu
Peter Frederik Clegg	* Clint Derek Coghill
* Charles Winston Cope	* William Anthony Elmquist
* Andrew Robert Fisher	* Andrew Grabhorn
* Christopher Marcus Groves	Brett Alan Harris
* Lisa L Hart	* Drew Michael Herbolich
Peter Orsi Holland	Edward Ralph Jankowski III
* Todd Alan Juhl	Christopher Allen Koxlien
Adam A. Langdon	Joel Christopher Levinson
Marc Barrett Levy	Mark Steven Liff
Ian Seth Linker	Gregory Blair Loepky
* Mary Ann Mavinga	Angie Olea Mesa
* Chad Steven Montgomery	Nyanjui S. Muigai
Jenell Lynn Payne	William Virgil Peckham
* Carlos Hernandez Rico	Monica Elisa Romero
* Esmeralda P. Saldana	* Hunter Hamilton Sampsel
Gregg Thomas Sasse	* Mohd Nazli Sidek
Christopher Todd Skinner	* Amy W. Trowbridge
Armando Refugio Urias Jr.	Kyle R Williams
Nazry Yahya	

TOTAL STUDENTS = 49

General Business Admin

Pita Atinurani Alinurrasyid	Gregory James Anderson
Ahmed M. Anoochi	Christopher Collins Apostle
Jamie Alexander Argueta	Roxanne Cecilia Bristol
Carol Jean Hazlett Buckpitt	Raul Carrasco III
Robert Lawrence Collier	Lesley Burke Crandall
Lisa Del Pizzo	Todd Michael Ezrailson
Carl William Fisher III	Denise Marie Gingerich
Fausto Marcos Gomez Villalobo	Graciela Calderon Gomez
William James Greany	Michael Patrick Hooper
Sungmin Inn	Carl Jorgensen
Hou Kuan Lei	Dewey John Leitch
Steve Lars Mattson Jr.	Lawrence Randy Medina
Edward Meyers	Mpho Mmachakga B. M Moruakgomo
Muriel Anthony Isma Navarrosa	William R. O'Neill
Alberto Ocegueda	Alejandro Ortiz
Miguel Alberto Quezada	Sharon Louise Rizzuto
Anita Renteria Salisbury	Audrey Lynn Schultz
Douglas Joseph Schultz	David Russell Schwartz
Eric Maurice Sherman	Orlinda Shirley
Livia M. Silva	Keith Brett Simon
Anthony Dale Smith	Lynda Elizabeth Stevens
Howard Martin Stevenson	Wade A Stooks
Denus Ray Vallery	Gail L. Vandebrake
Rick A Williams	Lisa M Yappel

TOTAL STUDENTS = 48

Management Info Systems

Pey-ru Chang	Kevin Chia-Yao Cheng
Lester Alden Coaker	* Luan Mei-lie Coffey
Katherine Ann Coke	Pamela Renee Cummings
* Larry G. Davis	Mark Edward Don
* Manuel German Durazo	* Robert William Edwards
Glenn Edward Emanuel	Paul Matthew Garofolo
* Terry Gene	Hiromi Hashimoto
Michael Alan Hornbeek	Shawn Logan Hungate
Omar Mohamad Louffi Kabbara	Ladonna Sue Keeth
Eric Randall Kejr	Su-ling Kuan
* Nicos Polyni Kyriacou	* Nicolle Marie Lahr
David James Madison	Benjamin James Mast
Sharmyn Marie Maynard	* Charles Edward Mcnear
* Daniel Roger Meyer	Kalay Karen Ng
Marshall Christian Ramsey	Shahrokh Shahmohamadi
Doris Jane Simeone	Harjanto Sukanto
Michael Yi Feng Tan	Deborah Dean Tigue
* Salvador James Vargas	* Maria Elena G. Ramsley
Billy Albert Williams	Leslie Gloria Willoughby
Kendall Thurston Wood	

TOTAL STUDENTS = 39

Marketing

Ruben Aguayo	Karen Leanne Allen
Paul Gregory Apodaca	Jessica Lynn Barrett
Mohammad Ali Bouzari	Manuel A. Canales Jr.
Barbara Lynn Carey	Erin Valkyrie Bruce Clark
Catherine Elizabeth Coughlin	Kristine Marie De La Ossa

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COLLEGE OF Business & Public Admin

BS in Business Admin

Marketing

Adam Delaossa	Victoria DeLaTrinidad
Jodi Lea Edmeier	Marty Rogers Estes
* Timothy Andrew Fyke	Josh Allan Garbert
* Christopher Marcus Groves	Jeffrey E. Hagen
Samantha Elizabeth Jackson	Jennifer Johnson
Mark Allen Koelfgen	Joseph Wymard Kraft
Chau Lester	Kimber Lee Lichtenhan
Kristin Elizabeth Lindwall	Mark Alan Lorman
John Arthur Mannlein	Bert Andrew Monteverde
John Robert Ohnstad	Eric Jon Oxman
James Andrew Radzicki	Mark Kendall Rylance
Manuel Santamaria Samorano	Alicia Esther Shick
Maurice Dean Sives	Evelyn June Vanderwall
Patricia B Vanhie	James Dennis Varden
Todd Howard Waldman	
	TOTAL STUDENTS = 39

Operations Management

* Nassir Atieh Brhoma	* Luan Mei-lie Coffey
* Larry G. Davis	* Manuel German Durazo
* Robert William Edwards	* Michael James Kerwin
* Nicolle Marie Lahr	* Charles Edward Mcnear
* Daniel Roger Meyer	* Salvador James Vargas
	TOTAL STUDENTS = 10

Personnel Management

Gloria Eugenia Alvillar	Jennifer Bonnie Carmen
Laurie Lee Donis	Traci Marie Gertie
Toni Marie Gibbons	Emily Patricia MacGeorge
Craig Robert Misci	Kristen Lynn Palmer
Stephanie Ann Rempe	Eric Paul Shirley
	TOTAL STUDENTS = 10

Real Estate

Joseph Charles Andrea	Wade Bailey Clark
Rexford Patrick Edwards	* Andrew Robert Fisher
George Arthur Gessner	* Andrew Grabhorn
Sandra Annette Hines	Robert Carl Mcglasson
Christopher Eugene Sally	* Hunter Hamilton Sampsel
Gregg Thomas Sasse	
	TOTAL STUDENTS = 11
	TOTAL DEGREES AWARDED = 261

BS in Public Admin

Criminal Justice Admin

Donald Jay Bertsch	Brittany Rachelle Billings
Cathy Jo Flammang	Corey Lynn Higgins
Marie Ann Schmidt	Gary Robert Schultz
Ryan Walter Sutton	
	TOTAL STUDENTS = 7

Health Services Admin

* Janet Lorraine Bland	Amy Jeanette Hamilton
* Maritza Linn	Zurysaday Urbalejo
	TOTAL STUDENTS = 4

Human Services Admin

* Maritza Linn	
	TOTAL STUDENTS = 1

Public Management

Lonna J. Minardi	
	TOTAL STUDENTS = 1
	TOTAL DEGREES AWARDED = 13
	TOTAL DEGREES FOR THIS COLL = 274

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COLLEGE OF Education

BA in Education

Elementary Education

Joanne Kirsch Bielicki	Denise Mary Celi	
Maria Isabel Delci	Andrea Richelle Escalante	
Luz Elvira Laborin	Maura Teresa Maddock	
Liana Michele Moulinier	Candice Olea	
Jorge Alberto Padilla	Rose Ann Ronstadt-smith	
Michele Suzanne Timmons	Deborah Lorraine White	
	TOTAL STUDENTS =	12

English

Karen Ann Waite	TOTAL STUDENTS =	1
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History

David Manuel Gonzales	Cory William Mathews	
Raul Estevan Moreno Jr.	TOTAL STUDENTS =	3

Language Arts-Social Stds

Debra Jeanne Clark	TOTAL STUDENTS =	1
	TOTAL DEGREES AWARDED =	17

BS in Education

General Biology

Scott Marshall Boone	TOTAL STUDENTS =	1
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Mathematics

Cliff Edward Angle	Mario Andrew Angotti	
Donald Charles Bock	TOTAL STUDENTS =	3

Rehabilitation

Susan Claire Cornell	Virginia L. Etsitty	
Rosemarie Jones	Karen Beth Rosenberg	
Steven Thomas Vitale	TOTAL STUDENTS =	5
	TOTAL DEGREES AWARDED =	9
	TOTAL DEGREES FOR THIS COLL	26

COLLEGE OF Engineering & Mines

BS in Aerospace Engr

Aerospace Engineering

Hyung-dong Cho	Julianne Montgomery DeBoskey	
	TOTAL STUDENTS =	2
	TOTAL DEGREES AWARDED =	2

BS in Chemical Engineering

Chemical Engineering

Shayne Douglas Aytes	Francisco S. Bonillas	
	TOTAL STUDENTS =	2
	TOTAL DEGREES AWARDED =	2

BS in Civil Engineering

Civil Engineering

Joseph Michael Alwin	Daniel Joseph Dolan	
Akram Mohammed Friekh	Jerome Victor Konick	
Richard Oros	Jesus M. Reyes	
Jose Luis Riojas Jr.	Bryant Edward Steele	
Allen Edward Wells	TOTAL STUDENTS =	9
	TOTAL DEGREES AWARDED =	9

OFFICE OF STUDENT RECORDS AND INFORMATION
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COLLEGE OF Engineering & Mines

BS in Computer Engineering

Computer Engineering

David Eric Anderson	Sze-Man Felix Chow	
Steven Wayne Garno	King Chung Lok	
Hani Redha	Michael Joseph Ruhl	
	TOTAL STUDENTS =	6
	TOTAL DEGREES AWARDED =	6

BS in Electrical Engr

Electrical Engineering

Clint Lawrence Corona	Kyoumarss Damavandi	
Dale Masaki Fox	Gregory Michael Hart	
Rehan Hasan	Ting-yu Kuo	
Asad Nomani	Alonzo R. Pickett	
Man Chak Tang	Rubayat Zaman	
	TOTAL STUDENTS =	10
	TOTAL DEGREES AWARDED =	10

BS in Engineering Physics

Engineering Physics

John Henry Basile		
	TOTAL STUDENTS =	1
	TOTAL DEGREES AWARDED =	1

BS in Hydrology

Hydrology

Ismail Mohed Al-bady	Michael Kevin Mahan	
Carlos David Mendoza	David Ashlar Pratt	
Brian Joseph Tuohy		
	TOTAL STUDENTS =	5
	TOTAL DEGREES AWARDED =	5

BS in Industrial Engr

Industrial Engineering

Sanjay Vishu Dolwani	Ana Lourdes Gomez-Caballero	
Maria Ann Gutierrez		
	TOTAL STUDENTS =	3
	TOTAL DEGREES AWARDED =	3

BS in Materials Sci & Engr

Materials Sci & Engr

Eid Helayel Alrewaily	Carrie Ann Mehrhoff	
	TOTAL STUDENTS =	2
	TOTAL DEGREES AWARDED =	2

BS in Mechanical Engr

Mechanical Engineering

Zayed Saleh Alatwah	John Anthony Aldecoa	
Matthew John Blake	Teresa Denise Dereniak	
Dustin Shane Evancho	Martin Douglas Kane	
Lisa Marie Leivian	Juan Ramon Pacheco	
Pedro Cesar Ramirez	Jason Dax Wily	
	TOTAL STUDENTS =	10
	TOTAL DEGREES AWARDED =	10

BS in Nuclear Engineering

Nuclear Engineering

Mohamad Jabour Al-hashish	Sung Lee	
Michael Nikolaus Lima		
	TOTAL STUDENTS =	3
	TOTAL DEGREES AWARDED =	3

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COLLEGE OF Engineering & Mines

BS in Optical Engineering

Optical Engineering

Yu-chun Chang	Laura Lee S. Kennard	TOTAL STUDENTS =	2
		TOTAL DEGREES AWARDED =	2

BS in Systems Engineering

Systems Engineering

Glen A. Ingebretson	Richard Dennis Scranton	TOTAL STUDENTS =	2
		TOTAL DEGREES AWARDED =	2
		TOTAL DEGREES FOR THIS COLL	57

COLLEGE OF Hlth Related Profess

BS in Health Sciences

Exercise Sciences

Mark Leipham Callaen David Andrew Gold Tracy Lyn Vogel	William Butler Daniell Jerry Joseph Villano Jr.	TOTAL STUDENTS =	5
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Health Education

John Anthony Dominguez	Erik August Hasenbein	TOTAL STUDENTS =	2
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Medical Technology

Kristin Lynn Englehart		TOTAL STUDENTS =	1
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Physical Education

Brad Alan Court James Edward Warner	Alexander Miguel Harris	TOTAL STUDENTS =	3
		TOTAL DEGREES AWARDED =	11
		TOTAL DEGREES FOR THIS COLL	11

COLLEGE OF Pharmacy

Doctor of Pharmacy

Pharmacy

Jean Theresa Carter	Thomas Edward Nowatzki	TOTAL STUDENTS =	2
		TOTAL DEGREES AWARDED =	2
		TOTAL DEGREES FOR THIS COLL	2

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COLLEGE OF Law

Juris Doctor

Law

Maria Suzanna Davila
Rebel G Harjo
Lisa Caryle Posada

Paige Elizabeth Dotson
Marcy Miranda Janes

TOTAL STUDENTS = 5
TOTAL DEGREES AWARDED = 5
TOTAL DEGREES FOR THIS COLL 5

COLLEGE OF Medicine

Doctor of Medicine

Medicine

Todd K. Malan

Christopher Charles May

TOTAL STUDENTS = 2
TOTAL DEGREES AWARDED = 2
TOTAL DEGREES FOR THIS COLL 2
TOTAL UNDERGRADUATES = 1236
TOTAL GRADUATES = 0
TOTAL PROFESSIONALS = 7

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THE UNIVERSITY OF ARIZONA
GRADUATE COLLEGE
OFFICE OF GRADUATE DEGREE CERTIFICATION
SUMMARY OF DEGREES TO BE COMPLETED ON AUGUST 12, 1993

DOCTOR OF EDUCATION	4
DOCTOR OF MUSICAL ARTS	1
DOCTOR OF PHILOSOPHY	81
MASTER OF AGRICULTURAL EDUCATION	1
MASTER OF ARCHITECTURE	3
MASTER OF ARTS	46
MASTER OF LANDSCAPE ARCHITECTURE	1
MASTER OF LIBRARY SCIENCE	12
MASTER OF MUSIC	2
MASTER OF PUBLIC ADMINISTRATION	3
MASTER OF SCIENCE	67
TOTAL	221

GRADUATE COLLEGE
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DOCTOR OF EDUCATION	EDUCATIONAL ADMINISTRATION	Ehmke, Norman Dean Pullin, Paul Rance Zeilenga, Jeffrey Robert
DOCTOR OF MUSICAL ARTS	SPECIAL EDUCATION AND REHABILITATION	Rogers, Judith Ann
DOCTOR OF PHILOSOPHY	PERFORMANCE	Dube, Michelle Claire
	AEROSPACE ENGINEERING	Man, Sek Ong
	AGRONOMY AND PLANT GENETICS	Lopes, Mauricio Antonio O'Malley, Maureen Ann
	ANATOMY	Jiang, Jinwen Krull, Catherine E. Lemuswilson, Athena Marie
	ANIMAL PHYSIOLOGY	Tyler, Amy E
	APPLIED MATHEMATICS	Bazant, Martin Zdenek Courtemanche, Marc
	ARID LANDS RESOURCE SCIENCES	Younis, Sadoon Jumah
	BOTANY	Porter, James Mark
	BUSINESS ADMINISTRATION	Spence, Mark Thomas
	CANCER BIOLOGY	Wu, Jinzi
	CHEMICAL ENGINEERING	Fang, Zigang Haider, Asad Mahmood
	CHEMISTRY	Lowe, Timothy Paul
	CIVIL ENGINEERING	Alkhatib, Ayman
	COMPUTER SCIENCE	Abbott, Mark Bert Jeffery, Clinton Lewis Knight, James Robert Mohamed, Shamim P Thomas, Vicraj Timothy
	ECOLOGY AND EVOLUTIONARY BIOLOGY	Alonso-pimentel, Henar Henze, Christopher Ernest
	ECONOMICS	Wenrich, Bryon Paul
	EDUCATIONAL PSYCHOLOGY	Grant, Kay Mulcahy

GRADUATE COLLEGE
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DOCTOR OF PHILOSOPHY

ELECTRICAL ENGINEERING

Abernethy, Charles Ernest
Cheng, Jung-hui
Damianou, Christakis Andrea
Vahie, Sankait

ENGINEERING MECHANICS

Doyle, Keith Brian

ENGLISH

Mahbobah, Albaraq Abdulhadi

ENTOMOLOGY

Ortego, Felix

FAMILY AND CONSUMER RESOURCES

Bass, Brenda L
Dalla, Rochelle Lene
Fridrich, Angela Huebner

GENETICS

Gardner, David P

GEOLOGICAL & GEOPHYSICAL ENGINEERING

Boyd, Richard Victor

HIGHER EDUCATION

Trotter, Francine Bly Frevert K.

HYDROLOGY

Cao, Yi
Gao, Xiaogang
Mas-pla, Josep

LANGUAGE, READING AND CULTURE

Facciola, Peter Charles
Hicks, Sandy Jean
Leith, Rena Margaret
Lockard, Louise

MANAGEMENT

Hays, Christopher Thomas

MATERIALS SCIENCE AND ENGINEERING

Bullard, Daniel E.
Weisenbach, Lori Ann

MATHEMATICS

Klassen, Matthew James

MICROBIOLOGY AND IMMUNOLGY

Jaqua, Paul Micheal
Lake, Douglas F.

NUCLEAR ENGINEERING

Kimpland, Robert Herbert
Singleterry, Robert Clay, Jr.

NURSING

Lawrence, Lisa
McCleave, Karen Jamison
Nichols, Lee Anne
Russell, Cynthia K
Wambach, Karen Ann

NUTRITIONAL SCIENCES

Galaviz-moreno, Samuel

GRADUATE COLLEGE
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DOCTOR OF PHILOSOPHY	<p>NUTRITIONAL SCIENCES</p> <p>OPTICAL SCIENCES</p> <p>PHARMACOLOGY AND TOXICOLOGY</p> <p>PHILOSOPHY</p> <p>PHYSICS</p> <p>PLANT PATHOLOGY</p> <p>POLITICAL SCIENCE</p> <p>PSYCHOLOGY</p> <p>SOCIOLOGY</p> <p>SOIL AND WATER SCIENCES</p> <p>SPECIAL EDUCATION AND REHABILITATION</p> <p>SYSTEMS AND INDUSTRIAL ENGINEERING</p> <p>AGRICULTURAL EDUCATION</p> <p>ARCHITECTURE</p> <p>AMERICAN INDIAN STUDIES</p> <p>ANTHROPOLOGY</p> <p>BILINGUAL/MULTICULTURAL EDUCATION</p> <p>COMMUNICATION</p>	<p>Gamboa Pulido, Pedro Miguel Shahbazian, Lotfollah M. Weber, Judith L. Weng, Cong Ying</p> <p>Burge, James Howard Flagello, Donis George Flath, Laurence Martin</p> <p>Clark, David Albert</p> <p>Svatos, Michele Lynn</p> <p>Milder, Andrew James Ruzmaikina, Anastasia</p> <p>Lin, Haojan</p> <p>Kash, Jeffrey P</p> <p>Shames, Victor A</p> <p>Bunis, William Kane Zager, Mary Ann</p> <p>Ali, Arshad Straub, Timothy Mark</p> <p>Burstein, Ronald Mark Nielson, Aleene B</p> <p>Liu, Dan</p> <p>Bird, Deborah Kay</p> <p>Frauenfelder, Daniela McCarthy, Mark James Zhu, Zhengyang</p> <p>Martinez, David Peirce, Shannon L</p> <p>Keith, Kathryn E</p> <p>Berring, Adriana Leticia Ho, Chiung-mei Hsu, Jung Chen Kang, Wei-ling Wiley, Jennifer Gail</p> <p>Aldrich, Alan Winslow</p>
MASTER OF AGRICULTURAL EDUCATION		
MASTER OF ARCHITECTURE		
MASTER OF ARTS		

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MASTER OF ARTS

COUNSELING AND GUIDANCE

Mori, Teruyo

EAST ASIAN STUDIES

Lu, Hui-tzu

ENGLISH AS A SECOND LANGUAGE

Jan, Sytorong
Knuhtsen, Cheryl Marie

HISTORY

Buss, Frances Ann Leeper

JOURNALISM

Knuhtsen, Kevin Jeanfrancis

LANGUAGE, READING AND CULTURE

Alcorn, Lorra Marie Dietz
Barquero Brockmann, Maria Jose
Berg, Janice Ellen
Figueroa, Meridon M.
Herbein, Lora Lee
Isbell, Joan
Kurlander, Cynthia M.
Owocki, Gretchen Marie
Perry, Thomas Frank
Sakata, Susan Ryuko Komoda

LATIN AMERICAN STUDIES

Blackburn, John Daniel

LIBRARY SCIENCE

Glock, Norma Artz
Gonzalez, Ramiro
Middlemas, Julie Anne
Schiff, Richard Bennett

SPECIAL EDUCATION AND REHABILITATION

Bowers, Julie Anderson
Brimm, Larry Eugene
Brooks, Joanne Allison
Bryde, Paul Matthew
Chamberlain, Kimberly Cheryl
Lewandowski, John William
Mays, Sandra J.
Mikkelsen, Linda Ann
Morris, Joanne Hemenway
Robinson, John Delmar, Jr
Scott, Geoffrey Alan
Sharp, Diane M.
Unterreiner, Ann Marie

TEACHING AND TEACHER EDUCATION

Avants, Connie Marye
Holbrook, Dean Albert
Marrapodi, Tricia Ann

MASTER OF LANDSCAPE ARCHITECTURE

LANDSCAPE ARCHITECTURE

Al-mutawa, Yasmin Abdullah

MASTER OF LIBRARY SCIENCE

LIBRARY SCIENCE

Bernal, Armando Eugenio

GRADUATE COLLEGE
FACULTY SENATE REPORT
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MASTER OF LIBRARY SCIENCE	LIBRARY SCIENCE	Bernardi, Margaret Mary Cliften, Carole Jeannine Hale, Paula Lynn Omukhulu, Beatrice Paul, Kathryn Ann Peterson, Carla Ann Quenk, Rachel Ann Schneider, Barbara Louise Short, Timothy C. Worth, Shirley Ann Zanarini, Anna M
MASTER OF MUSIC	MUSIC EDUCATION	Burns, Kimberly Jo
MASTER OF PUBLIC ADMINISTRATION	PERFORMANCE	Boosamra, Mareena Gay
MASTER OF PUBLIC ADMINISTRATION	PUBLIC ADMINISTRATION	Clark, Matthew Perkins, David Marshall Shull, Ronald D.
MASTER OF SCIENCE	AGRICULTURAL ECONOMICS	Fairchild, Dean Gordon Hazim, Khodr Mohamad Knowles, William Robert Munrieta, Joaquin Neves, Iria Mendes Nzeukou, Marcel Ryan, Lizbeth A.
	ANATOMY	Grove, Carrie Gail
	ANIMAL SCIENCE	Fontes, Cleber, Jr. Varela, Jose Gerardo
	CHEMICAL ENGINEERING	Baldessari, Fabio
	CIVIL ENGINEERING	Eisenberg, Patricia Phelan Kuhler, Ronald James, Jr. Santo, Gregory Allen
	COMPUTER SCIENCE	Saunders, Richard Thomas
	ELECTRICAL ENGINEERING	De Tar, Mark Andrew Hasan, Samil Mukhlisin Yauma Jones, Jake S Liao, Chi-horng Randolph, David Conner Shah, Bhavan Pukhraj Warrick, Abbie Lynn Yu, Yuan-pin
	GEOSCIENCES	Castillo Jimenez, Felix Vicente

GRADUATE COLLEGE
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MASTER OF SCIENCE

GEO SCIENCES

Mcowen, Lisa Kathryn
Myrick, Jennifer Lynn
Torres Vargas, Ricardo

HYDROLOGY

Hsu, Shyh-shyan

MATERIALS SCIENCE AND ENGINEERING

Jabbour, Ghassan Elie

MATHEMATICS

Hamada, Hiroshi
Saunders, Jeffrey Allen

MECHANICAL ENGINEERING

Aksteter, Jeffrey Warren
Colvin, James Earl

MICROBIOLOGY AND IMMUNOLOGY

Miller, Alice Lorraine

NURSING

Amarsi, Yasmin Noorali
Fay, Martha Joy
Mahn, Vicky Ann
Mcdaniel, Carolyn Morris
Sharron, Amy Beth
Soderlund, Sally Lynn

NUTRITIONAL SCIENCES

Drees, Elaine K

OPTICAL SCIENCES

Fink, Mark Richard
Harriman, Keith Albert
Hopkins, Mark Franklin
Marasco, Peter L

PHARMACEUTICAL SCIENCES

Ma, Qingyan

PLANNING

Patterson, Christine R. J.

RENEWABLE NATURAL RESOURCE STUDIES

Drake, Samuel Edward
Johnson, Sandra Jeanne

SPEECH AND HEARING SCIENCES

Augustin, Diane Leah
Bowring, Linda Jean
Denton, Marilyn
Effinger, John Walter
Johnson, Kimberly Ann
Junge, Frances M.
Krupa, Carla Lynn
Mcfarland, Anita
Miller, Stephanie Lynne
Moran, Angela Rose
Sharp-McCormick, Alexandria
Spangler-Hatch, Melody
Spencer, Margaret Mary

GRADUATE COLLEGE
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MASTER OF SCIENCE

SPEECH AND HEARING SCIENCES

Steed, Sharon S.
Toutonghi, Mary Jean Smith
Young-Campbell, Laura

SYSTEMS ENGINEERING

La Mantia, Theodora Kounellis

WATERSHED MANAGEMENT

Potter, Thomas Noel