

For more information, contact the APRC

By mail

ARIZONA PREVENTION RESOURCE
CENTER
COLLEGE OF EXTENDED
EDUCATION
ARIZONA STATE UNIVERSITY
PO Box 872208
TEMPE AZ 85287 2208

In person:

ASU Downtown Center, Building B
641 E. Van Buren, Suite B2
Phoenix, Arizona

By phone:

602/727 APRC (2772)

By fax:

602/727 5400

Toll free in Arizona:

1 800-432 APRC (2772)
TDD 1 800-432 2772

ASU Downtown Center

The ASU Downtown Center, located at the Phoenix Mercado, is specifically designed to extend ASU into the central Phoenix community, to help address urban challenges, to serve the governments of Arizona, and to enhance public policy making capacity.

The center provides instruction and community service, carries out applied research, and promotes economic and cultural development. Graduate and upper division courses of interest to government, business, and the professional community are offered. Interactive instructional television courses in engineering, business, liberal arts, and non laboratory sciences are also offered.

Noncredit microcomputing training classes, offered by the Personal Computer Training Program, are held at the center and are taught during daytime and evening hours. In addition, non credit and certificate programs are offered to working professionals by the Professional Programs and Institutes unit of the College of Extended Education. Refer to "Professional and Continuing Education," pages 402-403, for more information.

The Joint Urban Design Program, located in the ASU Downtown Center, is a collaborative effort of the ASU College of Architecture and Environmental Design, the Downtown Center, and the City of Phoenix. The program directs

institutional and public resources toward developing an understanding of issues that affect the urban quality of Phoenix. The Joint Urban Design Studio conducts urban design research with the City of Phoenix. For more information, call 602/965 3046.

The Urban Data Center serves as a resource for analysis and implementation of public policy in metropolitan Phoenix. The center works closely with ASU researchers and organizations such as the Joint Urban Design Program, the Morrison Institute for Public Policy, University Libraries, local government, state agencies, and other independent organizations to build a comprehensive database on policy issues for urban planners and community leaders. For more information, call 602/965 3046.

The Advanced Public Executive Program of the ASU College of Public Programs is housed at the ASU Downtown Center. This program is designed to provide public managers and administrators with analytical approaches and skills through short courses and seminars to help mobilize ideas, people, and resources in support of public programs. For more information, call 602/965 3046.

Project PRIME (Project to Improve Minority Education) is housed at the Downtown Center with evaluation support services located at the Hispanic Research Center. The program is designed to increase the pool of college-eligible minority students, who have historically been underrepresented in higher education, by providing instructional and support services to seventh through 12th grade students and their families at targeted Arizona schools. For more information, call 602/965 8510.

The ASU Downtown Center also serves as a meeting and conference site. It offers attractive rates, accommodations for small or large groups, beverage and food service, professional equipment, and secure, limited parking. The Downtown Center staff offers a wide range of services in logistics planning. The center is available for use by outside organizations, subject to the limits of university policies and procedures.

For more information, call the facility coordinator at 602/965 3046 (fax 602/965 8515) or write

ASU DOWNTOWN CENTER
502 E MONROE ST
PHOENIX AZ 85004 2337

ASU faculty, staff, and students may take advantage of computer lab facilities at the ASU Downtown Center. Equipped with IBM personal computers and Macintosh computers, the laboratory has access to VAX, FOCUS, WYLBUR, the libraries, electronic mail, and more. An assistant is also available.

Students at the ASU Downtown Center have access to ASU library information and resources through the Computer Lab. Students may order library books and return them; in addition, access to the libraries' online catalog is available.

Lab hours vary each semester. For more information, call 602/965 3046.

ASU East Valley Center

The ASU East Valley Center, emerging in conjunction with ASU East at the former Williams Air Force Base, extends access to the university's programs and resources to the growing eastern part of Maricopa County. A primary goal of the East Valley Center is to enable students to pursue selected degree programs in the East Valley through nontraditional scheduling and optional delivery methods, including live instruction and interactive television. The center hosts the Hazardous Materials and Waste Management Certificate Program; additional credit, non credit, and continuing education opportunities are planned, as the East Valley Center grows along with ASU East. More information about activities at the center is available by calling 602/965 9781.

ASU Sun Cities Center

The ASU Sun Cities Center educational facility is located in Sun City, Arizona, the nation's largest retirement community. The Lifelong Learning Program offers predominantly non credit courses and include a curriculum tailored specifically to the interests of the retirement community. Each year more than 150 courses from approximately 30 disciplines are taught. Weekly lectures also are available throughout the year in a variety of subjects.

The Educational Travel program provides more than 40 single day trips and

20 or more multiple-day tours each year. Programs for the retirement community are in the process of expansion throughout Maricopa County.

Refer to "Professional and Continuing Education" later in this section for more information about the courses and programs offered at this center.

Correspondence Study

College credit correspondence courses are specifically designed for the student unable to attend classes in person. They are offered for students who seek to fulfill degree objectives and for those who wish to increase occupational, professional, and intellectual skills.

To enroll in correspondence study, request an enrollment form and a brochure of courses by writing to:

CORRESPONDENCE STUDY
ARIZONA STATE UNIVERSITY
PO Box 874001
TEMPE AZ 85287-4001

Students admitted to ASU must obtain the approval of their advisors and the deans or chairs of the standards committees of the colleges in which they are enrolled before enrolling in correspondence study. Approval is required of any continuing student whether or not enrolled for courses during the summer sessions or vacation periods. Student athletes must obtain approval from the faculty athletics representative in order for correspondence credit to be used to meet the NCAA "satisfactory progress" requirement. Unclassified undergraduate or graduate students are not required to obtain approval. Correspondence courses may not be utilized to change a grade or to make up for courses in which the student has previously received a grade such as "D," "E," or "I."

Correspondence courses generally consist of eight lessons per semester hour, which may include proctored tests, midterms, or special projects. Eight to 10 hours are normally required to prepare each assignment. All courses require a proctored final exam.

A student may not take a final exam fewer than seven days from the date of registration for a one unit course, 14 days for a two unit course, and 21 days for a three-unit course.

Students may take one correspondence course initially, with the expecta-

tion of completion within a calendar year. However, when one half the lessons are completed, enrollment in a second course is possible. Students not attending ASU on campus may be permitted to register for two correspondence courses concurrently. Students may not register for more than two correspondence courses at once.

A maximum of 60 semester hours earned in correspondence and/or by comprehensive examination may be applied toward the baccalaureate degree at ASU. Correspondence courses are not applicable as graduate credit.

A correspondence study registration fee is required of all students, including full-time students who have paid registration fees and tuition. Registration fee and tuition waivers do not apply to correspondence study. Services and activities for on campus students are not covered by Correspondence Study fees.

A student may enroll in an off-campus or correspondence course without making formal application for admittance to the university or for degree candidacy. High school seniors may enroll in off-campus or correspondence courses under the provisions stated in "Admission before Graduation from High School," page 50. For more information, call 602/965 9797 or 1-800-533-4806.

Distance Learning Technology

Distance Learning Technology utilizes Instructional Television Fixed Service (ITFS) as well as cable television, public television, satellite, microwave, videotape, and CD ROM to deliver ASU classes to students at remote sites. Many students are unable to attend conventional university classes due to commuting or scheduling difficulties and prefer to view televised courses at convenient locations such as the work site or home.

There are four ITFS studio classrooms at ASU Main, in the Classroom Office Building (COB) and the Business Administration C-wing (BAC). The ASU studio classrooms have an audio system designed for interaction between instructors and remote students while class is in session. All remote sites are equipped with television sets and telephones that provide communication with the TV classrooms on the ASU campus. Daily courier service circulates instructional materials from faculty on the main campus to students at various locations.

Distance Learning Technology assists academic departments in the development, acquisition, production, scheduling, marketing, and delivery of televised courses. TeleCampus eases scheduling and commuting difficulties that may otherwise prevent students from continuing their education by extending ASU courses to off campus locations via technology.

Instructional Programs

As a convenience to students, courses are conducted off campus in locations throughout the state.

Credits earned off campus are recorded on a student's permanent record in the same manner as those earned on campus, and both are equivalent in all academic considerations. All academic standards of the university, including policies related to admission and registration, apply to off-campus courses. It is the responsibility of the student to be aware of all applicable policies before registering. It is the responsibility of each dean to determine what courses to offer off campus and to make faculty assignments.

The registration fees and tuition for off-campus courses are the same as on the main campus. (See resident and nonresident rates in the current *Schedule of Classes*.) Before the 21st calendar day of each semester, any combination of on campus and off campus resident credit courses resulting in a combined registration of seven or more semester hours requires that the student pay full time, resident registration fees or full time nonresident registration fees and tuition. Off campus credit courses and programs that commence on or after the 21st calendar day of the start of each semester require full-time and part-time students to pay registration fees and tuition separate from (in addition to) those courses starting before the 21st calendar day of the semester. For more information, call 602/965 9797.

Professional and Continuing Education

Professional and Continuing Education activities focus on professional and personal development as well as lifelong learning. Programs are planned and developed to complement the missions of the college and the university. These programs can be customized and transported to reach numerous target populations and levels of need.

The Personal Computer Training Program offers noncredit microcomputing training classes in the latest versions of software and courseware. The program offers a full range of short, streamlined courses in progressive levels. Development of programs for new markets, such as executives, small business owners, retirees and youth, is ongoing. Classes are offered at the ASU Downtown Center, the ASU Sun Cities Center, and in many workplaces. For more information, call 602/965-9200.

Professional Programs and Institutes offers a variety of noncredit programs for working professionals. Continuing education programs of high quality are offered to adult learners in collaboration with ASU colleges, other educational providers, professional associations, and public and private organiza-

tions. These ongoing educational experiences are intended to improve professional competence, meet current training and educational needs, and address current issues and trends. For more information, call 602/965-3046.

The Lifelong Learning Program offers predominantly noncredit courses and includes a curriculum tailored specifically to the interests of the retirement community. Each year more than 150 courses from approximately 30 disciplines are taught. Weekly lectures are available throughout the year in a variety of subjects. These programs are in the process of expansion throughout Maricopa County.

Educational Travel, a component of the Lifelong Learning Program, provides more than 40 single-day trips and

20 or more multiple-day tours each year. Travels are made throughout Arizona and bordering states with courses in Southwest history, geology, sociology, and economics offered en route. Multiple-day tours include the Shakespeare Festival in Cedar City, Utah; marine studies in San Diego; Lake Powell and Glen Canyon Dam; Canyon de Chelly and Monument Valley; Bryce Canyon; and the Colonial Cities of Mexico.

For an international educational travel experience, ASU and TraveLearn partner to provide programs to 15 exciting destinations including Costa Rica, Indonesia, and Kenya.

For more information about the Lifelong Learning Program or Educational Travel, call 602/965-5600.



Graduate College

Bianca L. Bernstein, Ph.D.
Dean

Through the faculty, the ASU Graduate College offers programs to meet the educational needs of those who already hold bachelor's degrees. While many students prepare for careers in research, the professions, and the arts, others work for personal enrichment. Both part time and full time students are enrolled in 94 master's and 48 doctoral majors encompassing hundreds of concentrations and specialties. Other students explore new areas of interest or prepare for career advancements quite apart from formal degree programs.

The size, strength, and diversity of the graduate community reflect the university's commitment to high quality education. As a major center for graduate education, ASU supports cultural and intellectual activity as well as research in a broad range of arts and sciences and professional disciplines; in addition, the university conducts research addressing Arizona's social, cultural, and economic growth and development.

GRADUATE DEGREES AND MAJORS

The Graduate College enrolls students in programs leading to both professional and research oriented advanced degrees. The Master of Arts, Master of Science, and Doctor of Philosophy degrees are awarded to students completing programs that culminate in research. The Doctor of Philosophy degree is the highest university award, conferred on candidates who have proved their ability as scholars and original researchers.

Professional graduate programs emphasize training that leads to professional practice. In these degree programs, students develop a mastery of a comprehensive body of knowledge and the ability to organize and carry out significant investigations in their professional field. Professional degrees usually are named Master of (professional field) and Doctor of (professional field), although some Master of Arts and Master of Science degree programs have professional tracks. The professional doctoral degree is the highest university award to candidates completing academic preparation for professional practice. Professional degrees offered through the Graduate College are as follows.

Master of Accountancy
Master of Architecture
Master of Business Administration
Master of Computer Science
Master of Counseling
Master of Education
Master of Environmental Planning
Master of Fine Arts
Master of Health Services Administration
Master of Laws
Master of Mass Communication
Master of Music
Master of Natural Science
Master of Public Administration
Master of Science in Design
Master of Science in Engineering
Master of Social Work
Master of Taxation
Master of Teaching English as a Second Language
Master of Technology
Doctor of Education
Doctor of Musical Arts
Doctor of Public Administration

Faculty members offering a specific graduate degree program may be members of a single academic unit (such as a department, school, or college), or they may form an interdisciplinary committee consisting of faculty from various academic units. The Graduate College awards degrees upon the recommendation of the faculty offering the graduate degree programs. For the lists of graduate degrees offered at ASU Main and ASU West, see pages 413–416.

Interdisciplinary Study

Although most graduate programs are administered by academic units, a diverse group of interdisciplinary programs falls directly under the supervision of the Graduate College. Many majors are in fields that are still emerging as recognized academic disciplines and, therefore, do not customarily form the academic basis for departments. Other fields of study are inherently interdisciplinary and do not fit well with conventional disciplines around which departments are formed. Curricula must reflect intrinsically broad disciplinary affinities, and faculty must be drawn from more than one department.

The Graduate College oversees eight interdisciplinary/intercollegiate graduate programs and has joint responsibility with the College of Education for another. These include the following:

Adult Development and Aging Program (Certificate in Gerontology)
 Creative Writing (M.F.A.)
 Curriculum and Instruction (Ph.D. (jointly administered with the College of Education))
 Exercise Science (Ph.D.)
 Justice Studies (Ph.D.)
 Public Administration (D.P.A.)
 Science and Engineering of Materials (Ph.D.)
 Speech and Hearing Science (Ph.D.)
 Statistics (M.S.)

Other interdisciplinary degree programs include Communication, Ph.D. (administered by the College of Public Programs); Humanities, M.A., and Molecular and Cellular Biology, Ph.D. (both administered by the College of Liberal Arts and Sciences).

Each of these programs uses resources and faculty from more than one discipline. The programs promote cooperative research and instruction among faculty who share common interests but are housed in different academic units. The programs allow students to pursue degrees that are intellectually coherent but that bring to

gether diverse strengths of the university. See the "Interdisciplinary Graduate Programs Degrees, Majors, and Concentrations) Overseen by the Graduate College" table below

Adult Development and Aging Program

An interdisciplinary, 24-semester-hour Certificate in Gerontology may be earned by graduate students who wish to study the biological, psychological, sociological, and policy related aspects of aging and the economic, health, and social concerns of older people. Students enrolled in the certificate program may simultaneously pursue a major in an academic unit offering a graduate degree or may enter the program as nondegree graduate students. The Certificate in Gerontology provides a broad academic foundation for students who wish to apply the knowledge and skills acquired in their major to a variety of aging related pursuits. For more information, see the *Graduate Catalog*.

For information on the undergraduate minor in Gerontology, see pages 96-97, "Adult Development and Aging."

GERONTOLOGY

GRN 494 Undergraduate Special Topics. (3) F, S
498 Undergraduate Pro-Seminar. (3) S
499 Undergraduate Independent Study. (3) F, S, SS
580 Graduate Practicum. (3) F, S
590 Graduate Reading and Conference. (3) F, S, SS
591 Graduate Seminar. (3) F, S

Creative Writing (M.F.A.)

The interdisciplinary Master of Fine Arts degree program with a major in Creative Writing is administered by the *Creative Writing Committee*. This studio/academic program involves the research, creative activity, and teaching interests of faculty of the Departments of English and Theatre to provide students with the opportunity to tailor a course of study to fit individual needs, talents, and goals. Students work under the direction of faculty who are practicing, published writers. For more information, see the *Graduate Catalog*.

Interdisciplinary Graduate Programs (Degrees, Majors, and Concentrations) Overseen by the Graduate College

Major	Degree	Administered by
Creative Writing Curriculum and Instruction Concentrations: curriculum studies, early childhood education, educational media and computers, elementary education, English education, exercise and wellness education, music education, physical education, reading education, science education, special education	M.F.A. Ph.D.	Creative Writing Committee Interdisciplinary Committee on Curriculum and Instruction
Exercise Science Concentrations: biomechanics, motor behavior/sport psychology, physiology of exercise	Ph.D.	Committee on Exercise Science
Justice Studies Concentrations: criminal and juvenile justice; dispute resolution; law, justice and minority populations; law, policy, and evaluation; women, law, and justice	Ph.D.	Committee on Law and Social Sciences
Public Administration Science and Engineering of Materials	D.P.A. Ph.D.	Committee on Public Administration Committee on the Science and Engineering of Materials
Speech and Hearing Science Concentrations: developmental neurolinguistic disorders, neuroauditory processes, neurogerontologic communication disorders	Ph.D.	Committee on Speech and Hearing Science
Statistics	M.S.	Committee on Statistics

Curriculum and Instruction (Ph.D.)

The interdisciplinary Doctor of Philosophy degree program with a major in Curriculum and Instruction is administered by the Interdisciplinary Committee on Curriculum and Instruction and overseen jointly by the Graduate College and the College of Education. Areas of concentration are available in curriculum studies, early childhood education, educational media and computers, elementary education, English education, exercise and wellness education, music education, physical education, reading education, science education, and special education. For more information, see the *Graduate Catalog*.

Exercise Science (Ph.D.)

The interdisciplinary Doctor of Philosophy degree program with a major in Exercise Science is administered by the Committee on Exercise Science. This individualized interdisciplinary degree integrates graduate courses from a variety of academic units to provide a sound foundation for research leading to a dissertation in biomechanics, motor behavior/sport psychology, or physiology of exercise. For more information, see the *Graduate Catalog*.

Justice Studies (Ph.D.)

The interdisciplinary Doctor of Philosophy degree program with a major in Justice Studies is administered by the Committee on Law and Social Sciences. The central focus of the program is the conceptualization and implementation of law and justice in society. The degree program integrates historical, legal, and philosophical approaches with social science training. Areas of interest include criminal and juvenile justice; dispute resolution; law, justice, and minority populations; law, policy, and evaluation; and women, law, and justice. For more information, see the *Graduate Catalog*.

Public Administration (D.P.A.)

The interdisciplinary Doctor of Public Administration degree program is administered by the Committee on Public Administration. The purpose of the degree is to prepare skilled professional public administrators for positions in the public sector and for university teaching. Ethics, modes of decision making, policy analysis, problem solving skills in budgeting, program evaluation, public personnel management, theoretical assumptions, and value as-

essments are some of the areas of study available. For more information, see the *Graduate Catalog*.

Science and Engineering of Materials (Ph.D.)

The interdisciplinary Doctor of Philosophy degree program with a major in Science and Engineering of Materials is administered by the Committee on Science and Engineering of Materials. Emphasis is placed on the applications of chemical thermodynamics, the mechanics of solids, quantum mechanics and transport theory for investigation of the relationships between microstructure and properties of solids, and the dependence of microstructures on processing. For more information, see the *Graduate Catalog*.

SCIENCE AND ENGINEERING OF MATERIALS

SEM 556 Electron Microscopy Laboratory.

3 F
Lab support for SEM 558. Cross-listed as MSE 556. Prerequisite: MSE/SEM 558.

557 Electron Microscopy Laboratory. (3) S

Lab support for SEM 559. Cross-listed as MSE 557. Prerequisite: MSE/SEM 559.

558 Electron Microscopy I. (3) F

Microanalysis of the structure and composition of materials using images, diffraction, and X-ray and energy loss spectroscopy. Knowledge of elementary crystallography, reciprocal lattice, stereographic projections, and complex variables is required. Cross-listed as MSE 558. Prerequisite: instructor approval.

559 Electron Microscopy II. (3) S

Microanalysis of the structure and composition of materials using images, diffraction, and X-ray and energy loss spectroscopy. Knowledge of elementary crystallography, reciprocal lattice, stereographic projections, and complex variables is required. Cross-listed as MSE 559. Prerequisite: instructor approval.

Speech and Hearing Science (Ph.D.)

The interdisciplinary Doctor of Philosophy degree program with a major administered by the Committee on Speech and Hearing Science. The purpose of the program is to prepare scholars for careers of basic and applied research in academia or in health care delivery environments. The unifying theme of the program is the influence of aging and changes in neurologic condition on human communication and its disorders. The program emphasizes this theme across all subdisciplines of speech, language, and hearing. For more information, see the *Graduate Catalog*.

Statistics (M.S.)

The interdisciplinary Master of Science degree program with a major in Statistics is administered by the Committee on Statistics. The program involves faculty and resources from the Department of Decision Information Systems and the Department of Mathematics. Areas of emphasis include applied statistics, mathematical statistics, statistical computing, statistical modeling, and statistical sampling and survey research. For more information, see the *Graduate Catalog*.

ADMISSION TO THE GRADUATE COLLEGE

ASU is one university with two campuses that are separately accredited by the North Central Association, a regional accrediting body, and by the professional accrediting agencies.

Applications can be submitted for admission as a nondegree student or degree seeking student at ASU Main or ASU West. Application for admission to a specific academic program must be reviewed by the desired campus and program.

For ASU Main

GRADUATE COLLEGE
ARIZONA STATE UNIVERSITY
PO Box 871003
TEMPE AZ 85287-1003

For ASU West

GRADUATE STUDIES
ASU WEST
PO Box 37100
PHOENIX AZ 85069-7100

For more information, call the Graduate College Admissions office at ASU Main (602/965-6113) or at ASU West (602/543-4567).

Eligibility

Anyone who holds a bachelor's (or equivalent) or graduate degree from a college or university of recognized standing is eligible to apply for admission to the Graduate College. Remedies for undergraduate deficiencies may be assigned if the undergraduate degree is based on credits not accepted by ASU, such as life experience or noncredit workshops and seminars.

Graduate College Requirements

Generally, an applicant must have a GPA of 3.00 (scale is 4.00 = A) or the equivalent in the last two years of work leading to the bachelor's degree. A student who enters a graduate degree program is expected to have undergraduate

educational experiences, including general education studies, that are similar to those required for the baccalaureate degree at ASU.

Requirements of the Academic Unit

Academic units (such as departments or colleges) may have admission requirements in addition to those of the Graduate College. Many graduate programs require scores from a national admissions test such as the Graduate Record Examination (GRE), Graduate Management Admission Test (GMAT), or the Miller Analogies Test (MAT). Some programs require the submission of a portfolio, letters of recommendation, or a statement of goals. Applicants should contact the academic unit regarding specific admission and application requirements.

Submission of an Application

U.S. citizens and permanent residents should submit the following items:

1. application;
2. application fee;
3. two transcripts from every college and university in which the applicant was previously enrolled;
4. appropriate test score reports (e.g., GRE, GMAT); and
5. a domicile affidavit if the applicant is a resident of Arizona.

If all materials are not available, what is available ought to be submitted with the application and fee. The rest of the materials should be submitted as soon as possible. If an academic unit has a specific deadline, the applicant must submit all required application materials to the Admissions Office *in advance of the deadline* to allow processing.

To facilitate the application process, ASU accepts personal photocopies of transcripts and test scores. Before registering for classes, every student must submit *official* transcripts.

The Graduate College accepts as *official* all transcripts submitted in sealed envelopes, stamped and verified by the issuing institution *or* transcripts sent directly from another college or university. The applicant must ask Educational Testing Service to send the test results directly to the Graduate Admissions office. The process of providing all necessary official records may take two months or longer.

Portfolios, letters of recommendation, and statements of goals should be sent directly to the academic unit.

International applicants should submit the following items:

1. application;
2. application fee;
3. two copies of all college and university academic records;
4. translation of all college and university academic records;
5. TOEFL score;
6. appropriate test score report (e.g., GRE, GMAT); and
7. Financial Guarantee form (which may be submitted at a later time).

All applicants should submit the required items *in one envelope* clearly labeled "application" to

For ASU Main

GRADUATE COLLEGE
ARIZONA STATE UNIVERSITY
PO Box 871003
TEMPE AZ 85287-1003

For ASU West

GRADUATE STUDIES
ASU WEST
PO Box 37100
PHOENIX AZ 85069-7100

Application Fee

Each application for entry to ASU graduate programs must be accompanied by a nonrefundable application fee. The fee is \$35.00 to apply for admission to a degree program and \$10.00 to apply for nondegree studies.

For details concerning re entry, multiple applications, and other matters relating to the application fee, see the *Graduate Catalog*.

International Applicants

Applicants who will attend the university while holding F 1 or J 1 visas must meet the regulations of the Immigration and Naturalization Services in addition to the requirements of the Graduate College and the academic units to which they apply.

International applicants are also required to submit additional materials and should follow the procedures described in the Graduate College brochure *Admission Information for New International Students*. International applicants should read this brochure carefully to become familiar with all the requirements they must meet. Applicants can also consult the ASU listings in *Peterson's Graduate Education*

Directory and in the *Directory of Graduate Programs* (published by the Educational Testing Service).

Among the additional materials required of international students are scores from English language examinations. All applicants whose native language is not English must submit a score from the Test of English as a Foreign Language (TOEFL). All international applicants who do not speak English as a primary language and who wish to apply for teaching assistantships must pass an examination that certifies their skill in speaking English—either the Test of Spoken English (TSE), which may be taken in the student's home country, or the SPEAK test, which is administered at ASU. Some degree programs (e.g., Business Administration) also require TSE or SPEAK scores of all applicants whose native language is not English. For specific information about TSE requirements, contact the head of the academic unit.

As required by the U.S. Immigration and Naturalization Service, international applicants must also verify that they have the financial resources to cover their expenses during graduate study at ASU. The Graduate Admissions office provides the Financial Guarantee form to international applicants, who then must see that the form, with a verification from a bank or sponsoring organization, is completed and returned to Graduate Admissions. The I 20 and the IAP66 (documents needed to obtain a student visa) are issued only after the completed, properly verified Financial Guarantee form has arrived. International students may enroll at ASU only if they have been admitted to a degree program and therefore may not pursue nondegree studies. They must meet all appropriate immigration standards and requirements.

Applications are processed when they are received. However, international applicants should submit all materials by December or January in order to begin study the following fall semester and by August or September in order to begin study the following spring semester. An application fee of \$35.00 (in U.S. funds) must accompany the formal application, which otherwise is not evaluated. (For details concerning multiple applications and other matters relating to the application fee, see the *Graduate Catalog*.)

All F 1 or J 1 visa students must have insurance coverage against illness and accident before being permitted to register. Insurance must be maintained throughout the student's enrollment in the university and may be obtained at the time of registration.

Upon arrival on campus, students must report to the advisor in the International Student Office.

Application Deadlines

The Graduate College does not have deadlines. Applications are processed as they are received. However, many academic units have specific and early deadlines; many units review applications once a year, usually in January or February for fall admission. Applicants are urged to contact the academic units regarding deadlines. If an academic unit has a specific deadline, the applicant must submit all required application materials to the Admissions Office *in advance of the deadline* to allow processing.

Application Procedures

When the Graduate Admissions Office has a complete file (the application, Domicile Affidavit, TOEFL [if required], application fee, and transcripts for an applicant, one copy is forwarded to the academic unit. A second copy is kept in the Graduate College. Academic units review the file and the supporting materials such as applicable test scores, portfolios, and letters of recommendation) and, following admission policies established by the Graduate College and the faculty of the academic unit, make a recommendation (regular admission, provisional admission, or denial) to the Graduate College. All recommendations are reviewed and approved by admissions officers in the Graduate College.

If there are questions about the likelihood of a student succeeding in the designated program, the Graduate College admissions officers communicate with the academic unit, perhaps agreeing on a provisional admission or arranging for the student in question to have a special faculty advisor or an advanced graduate student assigned as a mentor. Other times they may suggest that the student take some preliminary courses as a nondegree student.

Academic units, which must indicate their willingness to admit applicants, frequently set higher standards than

those established by the Graduate College. Many qualified applicants will be denied because each year only a limited number of students may be admitted.

Notice of Admission Decisions

Only the dean of the Graduate College can make formal offers of admission. The Graduate College notifies all applicants in writing of the admission decision.

All documents received by the university in connection with an application for admission become the property of ASU. If the applicant does not enroll in the university within one year, the admission documents may be destroyed.

The date (month/day/year) on the graduate dean's letter of admission is the actual date of admission. If the student is enrolled in courses on the admission date, those courses if applicable may be considered part of a program of study. Courses taken the semester before this date are nondegree hours.

Admission Classifications

Regular Admission. Applicants who fulfill all requirements for admission and are acceptable to both the academic unit and the Graduate College are granted regular admission.

Regular Admission with Deficiencies. A student whose grades and test scores are at an acceptable level but who does not have the undergraduate background expected by the academic unit and the university may be required to complete courses to remedy deficiencies. The letter of admission specifies the deficiencies that must be completed before the student is awarded a graduate degree. Deficiency courses may not be applied toward the minimum semester hours required for the degree program.

Provisional Admission. A student who does not meet minimum academic standards but has counterbalancing evidence to suggest the potential for success may be admitted on a provisional basis. Provisional admission provides an academic unit with more evidence on which to base its decision. Normally, the academic unit reviews the student's status following completion of 12 semester hours of approved graduate study. At that time, the academic unit recommends to the Graduate College a change in status to either regular admis-

sion or withdrawal from the program. When students have completed their provisional requirements, they should check with their advisors to make sure that the change of status has been recommended.

A provisional student may also be assigned deficiencies.

Nondegree Admission. A student not interested in earning a degree or not yet ready to apply to a particular degree program may enroll as a nondegree student. The application process is streamlined, does not require submission of transcripts or test scores, and can be completed during a single visit to the Graduate Admissions office. This process may also be completed by mail. A maximum of nine hours taken while in this category at ASU may be applied toward a master's degree if appropriate for the student's program of study.

The six year maximum time limit applies to nondegree semester hours appearing on a master's program of study. In addition, because of limited class size and resources, certain academic units may limit the enrollment of nondegree students.

Recognition of a Degree

Recognition of a degree is acknowledgment that the program leading to the degree is equivalent to a program offered by ASU or is an acceptable program for the proposed graduate major at ASU. A student who enters a graduate degree program is expected to have undergraduate educational experiences, including general education studies, that are appropriate for the program.

Definition of a Unit of Credit

See pages 59–60 of this catalog.

GRADUATE COLLEGE PROCEDURES

Change in Graduate Degree Program

A change from one graduate degree program to another requires a new application to the Graduate College. The usual admission procedures are followed. For details on matters relating to the application fee, see the *Graduate Catalog*.

Re-entry to the Graduate College

Any former graduate student who has not been in attendance at the university for one or more semesters must submit an application for re-entry to the Graduate College. The application

should be submitted at least one month before the beginning of the semester in which the student plans to re enter. For details on re entry and other matters relating to the application fee, see the *Graduate Catalog*.

Determination of Catalog Requirements

The *Graduate Catalog* is published biennially. Requirements for an academic unit or college, campus, or the university as a whole, may change and are often upgraded.

In determining graduation requirements, a student may use only one edition of the Graduate Catalog.

A student graduates under the curriculum, course requirements, and regulations for graduation in effect at the time of admission to a degree program at the university. A student may choose to graduate under any subsequent catalog issued.

Some changes in policies and procedures affect all students regardless of the catalog used by the student. These policies and procedures may appear in the catalog or in other university publications.

Registration

See pages 58-59 of this catalog

Audit Enrollment

Graduate students may register as auditors in one or more courses with the approval of the supervisory committee chair and the consent of the instructor involved. The student must be registered properly and pay the fees for the course. An audited course is counted in the student's maximum course load. It does not count for students who must take a minimum number of credits, e.g., teaching assistants or students receiving financial assistance. The mark of "X" is recorded for completion of an audited course, unless the instructor determines that the student's participation or attendance has been inadequate, in which case a "W" may be recorded.

Enrollment Verification

General guidelines on page 59 of this catalog are used only to verify enrollment for the purpose of loan deferments and eligibility. The registrar is responsible for such verifications.

Course Withdrawal

During the first four weeks of a semester, a student may withdraw with a mark of "W." From the fifth week to the end of the 10th week of a semester, a student may withdraw with a mark of "W" only from courses in which the instructor certifies the student is passing at the time of withdrawal.

The *Schedule of Classes* lists the procedures for withdrawal. Failure to withdraw officially from a course results in a grade of "E," which is used in the computation of the GPA.

An instructor may withdraw a student from a class for disruptive classroom behavior with a mark of "W" or a grade of "E." A student may appeal an instructor-initiated withdrawal to the standards committee of the college in which the course is offered. The decision of the committee is final.

Course Load

The course load is determined by the supervisory committee but is not to exceed 15 semester hours of credit during each of the two semesters, six semester hours during each five week summer session, or nine semester hours of credit during an eight week summer session. An audited course is counted in the student's maximum load.

All graduate assistants and associates must enroll for a minimum of six semester hours during each fall and spring semester of their appointment. The six hours cannot include audit enrollment. Enrollment in continuing registration (595, 695, or 795) does not fulfill the six hour requirement. A half time (50%) graduate assistant or associate working 20 clock hours per week may not register for more than 12 hours of course work each semester; a third-time (33%) assistant or associate for more than 13 hours; and a quarter time (25%) assistant or associate for more than 15 hours.

All graduate students doing research, working on theses or dissertations, taking comprehensive or final examinations, or using university facilities or faculty time must be registered for a minimum of one hour of credit, not audit, which appears on the program of study or which is an appropriate graduate level course, such as continuing registration (595, 695, or 795).

For an explanation of summer session semester hour load, see page 59.

Assistantships and Commercial Services

All graduate students who are hired for class/course support or who hold assistantships or associateships for a specific course including teaching assistants, research assistants, and graduate assistants may not take or provide notes for that course to commercial notetaking services or students. An exception may be made by the course instructor(s) on a case-by-case basis as an authorized support service for a disabled student. This policy covers all commercial activities (e.g., notetaking or paid review sessions) that might be associated with a course for which the assistant or associate has assigned responsibilities.

GRADUATE COLLEGE DEGREE REQUIREMENTS

Graduate Advising

Advising is much more than technical support; it is an integral part of graduate education. Students' programs of study are generally tailored to meet individual needs, and students should seek advice from faculty or advisors as they plan their course work, examinations, and other degree requirements.

Graduate College Advising Office.

The Advising office serves prospective and enrolled students. Information is provided concerning Graduate College admissions, nondegree status, programs of study, and policies and procedures. Academic and professional advisement is available to nondegree students. Advisors assist nondegree or prospective students in contacting appropriate faculty and advisors. Students may call 602/965-3521 for an appointment or stop by the lobby of Wilson Hall.

Grading

The "Grades" table (page 410) defines grades and gives their values.

A grade of "P" (pass) in a 400 level course may not appear on a program of study. Grades on transfer work or ASU law credit are not included in computing GPAs.

Grades of "D" and "E" cannot be used to meet the requirements for a graduate degree, although they are used to compute the GPAs. A student receiving a grade of "D" or "E" must repeat the course in a regularly scheduled (not an independent study) class if it is to be included in the program of study.

Grades

Grade	Definition	Value	Notes
A	Excellent	4.00	
B	Good	3.00	
C	Passing	2.00	
D	No graduate credit	1.00	
E	Failure	0.00	
W	Withdrawal		This grade is given whenever a student officially withdraws from a class.
I	Incomplete		
X	Audit		
Y	Satisfactory		
Z	Course in progress		This grade is usually given pending completion of courses.

However, both the "D" or "E" and the new grade are used to compute the GPAs.

Graduate course work (500, 600, or 700 level courses) reported as an "I" (incomplete) must be completed within one calendar year. At the time the "I" grade is given, the student must complete the "Request for Grade of Incomplete" form. The form first serves as a record of the "I" grade and the work required to complete it. When the student has completed the work, the form then serves as a change-of-grade authorization.

If the work specified on the form is not completed within one calendar year, the "I" grade becomes part of the student's permanent transcript. The student is not allowed to complete the course work as specified on the "Incomplete" form. The student may, however, repeat the course after the "I" has become permanent by reregistering, paying fees, and fulfilling all course requirements. The grade for the repeated course appears on the transcript but does not replace the permanent "I."

Scholarship

To be eligible for a degree in the Graduate College, a student must achieve two GPAs of "B" (3.00) or better. The first GPA is based on all courses numbered 500 or higher that appear on the transcript. (Courses noted as deficiencies in the original letter of admission are not included.) The second GPA is based on all courses that appear on the program of study.

The designation of honors (*summa cum laude*, *magna cum laude*, and *cum laude*) is reserved for undergraduates. The Graduate College does not use these academic distinctions.

Academic excellence is expected of students doing graduate work. Upon recommendation from the head of the academic unit, the dean of the Graduate College can withdraw a student who is not progressing satisfactorily.

A graduate student who does not enroll for three calendar years is considered withdrawn and must reapply for admission to a degree program.

Graduate Credit Courses

Courses at the 500, 600, and 700 levels are graduate credit courses. Courses at the 400 level apply to graduate degree requirements when appearing on an approved program of study. However, 400 level courses are not graduate courses by definition and cannot be certified as such for purposes of employment or transferring to other institutions.

Reserving of Course Credit by Undergraduates. See pages 58-59.

Transfer Credit. Transfer of credit is the acceptance of credit from another institution or campus for inclusion in a program of study leading to a degree awarded by ASU. The number of hours transferred from other institutions may not exceed 20% of the total minimum semester hours required for a master's degree unless stated otherwise for a specific degree program.

Transfer credit taken before admission to a graduate degree program at ASU is nondegree credit. Nondegree credit taken at ASU combined with nondegree credit taken at another institution may not exceed nine hours on the master's program of study. The date (month/day/year) on the Graduate Col-

lege dean's letter of admission is the actual date of admission. If the student is enrolled in courses on the admission date, those courses, if applicable, may be considered part of a program of study. Courses taken the semester before this date are nondegree hours. The nine-hour limit does not apply to the doctoral programs.

Transfer credits must be acceptable toward graduate degrees at the institution where the courses were completed. Certain types of graduate credits cannot be transferred to ASU, including the following:

1. credits awarded by postsecondary institutions in the United States that lack candidate status or accreditation by a regional accrediting association;
2. credits awarded by postsecondary institutions for life experience;
3. credits awarded by postsecondary institutions for courses taken at noncollegiate institutions (e.g., government agencies, corporations, and industrial firms);
4. credits awarded by postsecondary institutions for noncredit courses, workshops, and seminars offered by other postsecondary institutions as part of continuing education programs; and
5. credits given for extension courses.

Acceptable academic credits earned at other institutions that are based on a different unit of credit than the ones prescribed by the Arizona Board of Regents are subject to conversion before being transferred to ASU.

Only resident graduate courses with an "A" or "B" grade may be transferred. A course with the grade of pass, credit, or satisfactory may not be transferred.

Official transcripts of any transfer credit to be used on a program of study must be sent directly to the Graduate Admissions office from the office of the registrar at the institution where the credit was earned.

Correspondence and Extension

Courses. Correspondence and extension courses cannot be used to meet the requirements for a graduate degree.

Graduate Supervisory Committees

When the program of study is filed, upon the recommendation of the head of the academic unit, the dean of the Graduate College appoints a graduate student's supervisory committee, consisting of a chair and other resident faculty members. The number of members serving on this committee depends on the degree program. Academic professionals (e.g., research scientists, research engineers), nontenure-track faculty (e.g., adjunct professors, research professors), and individuals granted affiliated faculty status through established university procedures may serve as cochairs or members or extra members of thesis and dissertation committees upon approval by the Graduate College. Individuals who are recommended by an academic unit as eligible to serve as a cochair must meet the criteria established by the academic unit and be approved by the Graduate College.

Upon the recommendation of the committee chair and head of the academic unit, ASU West tenured (or tenure track) faculty may serve as committee members for master's and doctoral committees at ASU Main. ASU West tenured (or tenure-track) faculty may serve as cochairs for theses/dissertations at ASU Main upon the recommendation of the head of the academic unit and approval of the dean of the Graduate College. Cochairs must meet the academic unit's criteria for chairing theses/dissertations.

Qualified individuals outside the university, upon the recommendation of the head of the academic unit and approval of the Graduate College, may serve as members of thesis and dissertation committees; however, such individuals may not serve as chairs or cochairs (unless they have affiliated faculty status). Former ASU faculty with students completing their degrees may continue to serve as cochairs pending the approval of the academic unit and the dean of the Graduate College. At least 50% of the committee must be made up of faculty from ASU Main

Foreign Language Requirements

A graduate degree program may require proficiency in a foreign language. If foreign language proficiency is required, students must demonstrate at least a reading knowledge in the area of study required by the supervisory com-

mittee and consistent with the requirements for the graduate degree program. Normally, the language is selected from French, German, Russian, or Spanish, although other languages may be recommended when there is adequate justification.

Students who are required to demonstrate proficiency in a foreign language must pass a foreign language examination specific to their particular graduate programs. The examinations are administered three times each year by the Department of Languages and Literatures, which certifies language competency. Students planning to take the examination must register in the Graduate College by the deadline. The chair of the student's supervisory committee is responsible for providing the Department of Languages and Literatures with materials from which the examination is prepared. The chair should submit or recommend relevant books and/or journals of approximately 200 pages in length in the desired foreign language.

A student may petition the Graduate College for a re-examination, but must pass the examination in no more than three attempts.

Theses and Dissertations

The master's thesis or equivalent is an introduction to research writing. All doctoral degree candidates must submit a dissertation, with the exception of the Doctor of Musical Arts with concentrations in choral music and solo performance, which requires three recitals and a research paper. The Doctor of Philosophy dissertation should be a valuable educational experience that demonstrates the candidate's mastery of research methods, theory, and tools of the discipline. The dissertation should demonstrate the candidate's ability to address a major intellectual problem and to propose meaningful questions and hypotheses. It should be a contribution to knowledge that is worthy of publication by an established press as a book or monograph or as one or more articles in a reputable journal.

For format, the Graduate College must review the final copy of the master's thesis, doctoral dissertation, and other final documents that are required to be placed in the library. Copies of the *Format Manual* are available in the Graduate College. The student is required to submit a complete copy of the thesis or dissertation for format review

at least 10 working days before the oral defense (two weeks if there are no holidays during the time period). Doctoral students must submit a completed Survey of Earned Doctorates Awarded in the United States, conducted by the National Research Council.

Graduate students and their supervisory committee chairs jointly select a style guide or journal format representative of the field of study. The Graduate College allows some flexibility in the format of the manuscript, but Graduate College and library guidelines must be followed.

The student must submit two final copies of a thesis or dissertation to the ASU Bookstore for binding. Bound copies are placed in Hayden Library and University Archives. Doctoral candidates should also submit one copy of the title page, approval page, and abstract (which must not exceed 350 words). The student is responsible for the binding fees; in addition, doctoral students must pay to have their dissertations microfilmed by University Microfilms International (UMI). The fee covers the expense of having the document sent to UMI, where it is microfilmed and cataloged. Information on the dissertation appears in various publications, such as *Dissertation Abstracts International* and the annual supplement of the *Comprehensive Dissertation Index*.

Application for Graduation

Students should apply for graduation no later than the date specified in the "Graduate College Calendar," found in the *Graduate Catalog*. All fees are payable at that time. Students applying for graduation after the deadline listed in the calendar are required to pay a late fee. At the end of the semester in which they apply for graduation, students are officially notified of any degree requirements they have not yet completed. Students are requested to complete a questionnaire which serves as a graduate exit survey. Students who do not complete all degree requirements by their anticipated graduation date are required to pay a refiling fee.

Withdrawal from the University

See page 61 of this catalog.

A master's or doctoral degree student who does not enroll for three calendar years is considered withdrawn and must reapply for admission to a degree program.

Summer Sessions

See page 417 of this catalog.

Dates and Deadlines

The "Graduate College Calendar" in the current *Graduate Catalog* lists deadlines for the submission of theses and dissertations to the Graduate College, the last day to apply for graduation, the last day to hold an oral defense of a thesis or dissertation, and the last day to submit theses and dissertations to the ASU Bookstore for binding.

Student Responsibility

It is the responsibility of the graduate student to know and observe all procedures and requirements of the Graduate College as defined in the *Graduate Catalog*, the *Schedule of Classes*, and the *Format Manual*. Students should also be informed about the requirements concerning their degree programs and any special requirements within their academic units.

The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the university and/or other sanctions as specified in the academic integrity policies of the individual colleges. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities. The university and college academic integrity policies are available in the Office of the Senior Vice President and Provost and the offices of the deans of the individual colleges.

Misconduct in Scholarly Research and Creative Activities

Students are expected to maintain the highest standards of integrity and truthfulness in scholarly research and creative activities. Misconduct in scholarly research and creative activities includes, but is not limited to, fabrication, falsification or misrepresentation of data, and plagiarism. Misconduct by any student may result in suspension or expulsion from the university and/or other sanctions as specified by the individual colleges. Policies on misconduct are available in the Office of the Senior Vice President and Provost.

Graduate College Policies and Procedures

For more detailed information on Graduate College policies and procedures, refer to the current *Graduate Catalog*.

Policies and Procedures of the Graduate Council Appeals Board

The Graduate Council Appeals Board (GCAB) acts as the appeals body for graduate students seeking redress on academic decisions regarding their graduate program. Before filing an appeal, the graduate student should discuss the situation with the associate dean of the Graduate College to explore resolution of the matter at the unit or college level.

The purpose of the GCAB is to review written appeals of graduate students. (On occasion a faculty member may be appealing the decision about a graduate student made by a program, an academic unit, the Graduate College, or another college.) Such appeals concern

1. retention in graduate programs;
2. other academic issues (except grade appeals, which are handled in academic colleges), and
3. procedural matters in graduate student programs (e.g., programs of study, thesis/dissertation exams).

The GCAB consists of three or more members of the Graduate Council appointed by the dean of the Graduate College at the beginning of each academic year. In specific cases the GCAB may ask for additional members from the faculty or one or more graduate students to be appointed by the dean of the Graduate College. The GCAB is chaired by one of the members as designated by the dean or associate dean. The GCAB is assisted by the assistant dean who oversees the hearing but does not serve as a member of the GCAB. Membership is on an annual basis, but members of the Graduate Council may serve for a maximum of three consecutive years. To the extent possible, GCAB membership does not change during a student appeal. A member continues to serve on the GCAB into the next academic year if an appeal is continued during that time.

GCAB Meetings. The GCAB meets when notified by the assistant dean that

an appeal is pending. The GCAB requires two thirds of the committee present for a quorum. A GCAB member must disqualify herself or himself if a case involves a student in her or his academic unit or the member has some direct tie to the student who is appealing. The dean of the Graduate College replaces the individual with a current or past Graduate Council member. A recording secretary is selected before each appeal. This person keeps notes of the hearing. Secretarial support for typing notes is provided by the assistant dean. A tape is made of the hearing.

Jurisdiction of the GCAB. The GCAB has the authority to receive written appeals from graduate students on the review of any action or decision by any university faculty member, staff member, or administrator. However, any appeal must first be reviewed at the level of the academic unit from which the graduate student is making an appeal.

The GCAB has the right to decide not to hear an appeal. In this case, the decision of the academic unit is final. The GCAB may hear appeals on program dismissal, other academic issues, or procedural issues. In addition, the GCAB hears any appeal referred to it by the dean of the Graduate College.

The GCAB does not review

1. appeals of course grades, including omnibus courses such as independent research, thesis, or dissertation, which are handled through the academic colleges;
2. appeals concerning academic dishonesty, which are handled by the academic unit with appeals to the University Hearing Board;
3. appeals concerning scientific misconduct, which are handled by the academic unit with appeals to the Council of Research and Creative Activity through the Office of the Vice President for Research and Strategic Initiatives;
4. appeals for which the graduate student has not fully used all other appeal and review processes (e.g., the academic unit);
5. appeals filed more than 30 calendar days after receiving notification of the action taken at an appeal by the academic unit (or, if appropriate, another university committee);

6. allegations of discrimination; and
7. other appeals or grievances under the jurisdiction of other university boards and committees.

Appeals are not heard during the summer. The calendar stops on the last day of exams for the spring semester and begins on the first day of classes for the fall semester.

Mediation. Mediation between the graduate student and any university official is always a preferred option to a hearing. If mediation appears beneficial when the initial appeal is filed with the GCAB, the GCAB may recommend that mediation occur and select a mediator. If mediation is successful and both parties agree to the decision, a written record of the outcome is filed by the mediator with the GCAB, all parties involved, and the dean of the Graduate College. If mediation is not successful, the graduate student has 30 days from the end of the mediation process to request in writing a formal appeal hearing.

Authority. The GCAB may affirm or reverse the original decision being appealed and make such recommenda-

tions for further actions as seem appropriate. In the course of any hearing, the GCAB is authorized to request additional evidence or testimony by any student, faculty or staff member, administrator, other university employee, or other individual as a witness. The GCAB has final authority in procedural matters. The decision of the GCAB is final. The chair of the GCAB notifies all parties of the decision.

Filing an Appeal. Before an appeal comes to the GCAB, the normal channels for resolving disputes must have been consulted. The appellant should consult with the major professor to resolve the issue at that level. If the issue cannot be resolved with the major professor, the appellant should seek out the department chair or designated individual for resolution. In some cases, if the major professor and department chair have not been able to resolve the issue or the outcome still needs to be pursued, it may be appropriate to pursue the issue with the academic college dean. If the issue has not been resolved at one of these levels, an appeal to the GCAB may be pursued.

Before initiating an appeal, the graduate student should speak to the associate dean to see if the issue can be resolved informally. Should negotiation, through the associate dean of the Graduate College, not succeed, the graduate student may submit a written appeal.

All appeals must be submitted in writing to the associate or assistant dean of the Graduate College. Witnesses and any other pertinent evidence must be listed in the appeal. The written appeal must specify the grounds for the appeal as listed in the document "Guidelines for Appeals," available in the Graduate College. Only documents that follow the guidelines are considered, although university regulations pertinent to the case may be used as supporting grounds. It is incumbent upon the student to demonstrate to the GCAB that grounds for the appeal exist. The written appeal may not exceed 10 pages.

The associate or assistant dean notifies the appellee and request, in writing, information from the appellee related to the case. The initial written response by the appellee is submitted within 15 days of receiving notice of the appeal.

Graduate Degrees and Majors Offered at ASU Main

Baccalaureate degrees and majors offered at ASU Main are shown on pages 7-8.
Baccalaureate degrees and majors offered at ASU West are shown on page 506

Master of Accountancy	Early childhood education	French
Master of Architecture	Elementary education	Comparative literature
Master of Arts	English as a second language	Language and culture
Anthropology	Indian education	Literature
Archaeology	Mathematics education	Geography
Bioarchaeology	Multicultural education	German
Linguistics	Reading education	Comparative literature
Medical anthropology	Science education	Language and culture
Museum studies	Secondary education	Literature
Physical anthropology	Social studies education	History
Social-cultural anthropology	Educational Administration and Supervision ¹	Asian history
Art	Educational Psychology ¹	British history
Art education	English	European history
Art history	Comparative literature	Latin American history
Communication	English linguistics	Public history
Curriculum and Instruction	Literature and language	U.S. history
Bilingual education	Rhetoric and composition	U.S. Western history
Communication arts		Humanities
		Learning and Instructional Technology ¹

¹ Major offered toward more than one degree at the same level

² Not accepting applications

³ The major has only one formalized concentration; other areas of study are available

⁴ Courses for this program are offered at ASU East

⁵ Students apply to this degree program through the College of Law, not the Graduate College

Graduate Degrees and Majors Offered at ASU Main (continued)

Mathematics	Special Education ¹	Master of Public Administration
Music	Gifted	Public Administration
Ethnomusicology	Mildly handicapped	Public information management
Music history and literature	Multiculturally exceptional	Public management
Music theory	Severely/multiply handicapped	Public policy analysis and evaluation
Philosophy		Urban management and planning
Political Science	Master of Environmental Planning	Master of Science
American politics	Environmental Planning	Aerospace Engineering ¹
Comparative politics	Urban planning	Agribusiness ⁴
International relations		Agribusiness management and marketing
Political theory		Food quality assurance
Religious Studies	Master of Fine Arts	Bioengineering
School Library Science ^{1, 2}	Art	Biological Sciences
Social and Philosophical Foundations of Education	Ceramics	Botany
Sociology	Drawing	Ecology
Spanish	Fibers	Photosynthesis
Comparative literature	Intermedia	Building Design
Language and culture	Metals	Computer aided design
Linguistics	Painting	Energy performance and climate responsive architecture
Literature	Photographic studies	Facilities development and management
Special Education ¹	Photography	Chemical Engineering¹
Theatre	Printmaking	Biomedical and clinical engineering
Master of Business Administration	Sculpture	Chemical process engineering
Master of Computer Science¹	Wood	Chemical reactor engineering
Master of Counseling	Creative Writing	Energy and materials conversion
Master of Education	Dance	Environmental control
Counselor Education	Theatre	Solid state processing
Counseling and student personnel	Acting	Transport phenomena
Curriculum and Instruction ¹	Scenography	Chemistry
Bilingual education	Theatre for youth	Analytical chemistry
Communication arts	Master of Health Services Administration	Biochemistry
Early childhood education	Master of Laws²	Geochemistry
Elementary education	Master of Mass Communication	Inorganic chemistry
English as a second language	Master of Music	Organic chemistry
Indian education	Composition	Physical chemistry
Mathematics education	Music Education	Solid state chemistry
Multicultural education	Choral music	Civil Engineering ¹
Reading education	General music	Environmental/sanitary
Science education	Instrumental music	Geotechnical/soil mechanics
Secondary education	Performance	Structures
Social studies education	Music theatre musical direction	Transportation
Educational Administration and Supervision ¹	Music theatre performance	Water resources/hydraulics
Educational Media and Computers	Performance pedagogy	Communication Disorders
Business education ³	Piano accompanying	Computer Science ¹
Educational Psychology ¹	Solo performance (instrumental, keyboard, voice)	Construction
Higher and Adult Education	Master of Natural Science	Construction science
Adult education ²	Natural Science	Facilities
Higher education	Botany	Management
Learning and Instructional Technology ¹	Chemistry	Decision and Information Systems
School Library Science ^{1, 2}	Geology	Economics
	Mathematics	Electrical Engineering ¹
	Microbiology	Engineering Science ¹
	Physics	
	Zoology	

¹ Major offered toward more than one degree at the same level

² Not accepting applications

³ The major has only one formalized concentration; other areas of study are available.

⁴ Courses for this program are offered at ASU East

⁵ Students apply to this degree program through the College of Law, not the Graduate College.

Graduate Degrees and Majors Offered at ASU Main (continued)

Environmental Resources	Energy and materials conversion	Educational Administration and Supervision
Exercise Science/Physical Education	Environmental control	Higher and Adult Education
Family Resources and Human Development	Solid state processing	Adult education ²
Family studies	Transport phenomena	Higher education
General family resources and human development	Civil Engineering ¹	Learning and Instructional Technology ⁵
Geology	Environmental sanitary	Doctor of Musical Arts
Industrial Engineering ¹	Geotechnical soil mechanics	Music
Computer aided processes	Structures	Choral music
Computer integrated manufacturing	Transportation	General music
Human factors	Water resources/hydraulics	Instrumental music
Information systems	Electrical Engineering ¹	Music composition
Operations research	Engineering Science ¹	Solo performance
Organization control	Industrial Engineering ¹	Doctor of Philosophy
Quality control reliability	Computer aided processes	Aerospace Engineering
Justice Studies	Computer integrated manufacturing	Anthropology
Mechanical Engineering ¹	Human factors	Archaeology
Microbiology	Information systems	Physical anthropology
Molecular and Cellular Biology	Operations research	Social cultural anthropology
Ecology	Organization control	Bioengineering
Nursing	Quality control reliability	Botany
Adult health nursing	Mechanical Engineering ¹	Ecology
Community health nursing	Master of Social Work	Photosynthesis
Community mental health/psychiatric nursing	Master of Taxation	Business Administration
Nursing administration	Master of Teaching English as a Second Language	Accountancy
Parent child nursing	Master of Technology⁴	Decision and information systems
Physics	Technology	Finance
Recreation	Aeronautical engineering technology	Health services research ²
Outdoor recreation	Aeronautical management technology	Management
Recreation administration	Electronics engineering technology	Marketing
Social/psychological aspects of leisure	Graphic communications technology	Purchasing and logistics management
Tourism and commercial recreation	Industrial management and supervision	Chemical Engineering
Statistics	Manufacturing engineering technology	Biomedical and chemical engineering
Zoology	Technology	Chemical process engineering
Ecology ³	Mechanical engineering technology	Chemical reactor engineering
Master of Science in Design	Welding engineering technology	Energy and materials conversion
Industrial Design	Doctor of Education	Environmental control
Design methodology, theory, and criticism	Counselor Education ²	Solid state processing
Facilities planning and management	Curriculum and Instruction ¹	Transport phenomena
Human factors in design	Bilingual education	Chemistry
Interior Design	Communication arts	Analytical chemistry
Design methodology, theory, and criticism	Curriculum studies	Biochemistry
Facilities planning and management	Early childhood education	Geochemistry
Human factors in design	Elementary education	Inorganic chemistry
Master of Science in Engineering	English as a second language	Organic chemistry
Aerospace Engineering ¹	Indian education	Physical chemistry
Chemical Engineering ¹	Mathematics education	Solid state chemistry
Biomedical and clinical engineering	Multicultural education	Civil Engineering
Chemical process engineering	Reading education	Environmental/sanitary
Chemical reactor engineering	Science education	Geotechnical/soil mechanics
	Secondary education	Structures
	Social studies education	Transportation
		Water resources/hydraulics

¹ Major offered toward more than one degree at the same level

² Not accepting application

³ The major has only one formalized concentration, other areas of study are available

⁴ Courses for this program are offered at ASU East

⁵ Students apply to this degree program through the College of Law, not the Graduate College

Graduate Degrees and Majors Offered at ASU Main (continued)

Communication	Exercise Science	Microbiology
Communicative development	Biomechanics	Molecular and Cellular Biology
Intercultural communication	Motor behavior/sport psychology	Physics
Organizational communication	Physiology of exercise	Political Science
Computer Science	Family Science	American politics
Counseling Psychology	Marriage and family therapy ³	Comparative politics
Curriculum and Instruction	Geography	International relations
Curriculum studies	Geology	Political theory
Early childhood education	History	Psychology
Educational media and computers	Asian history	Clinical psychology
Elementary education	British history	Developmental psychology
English education	European history	Environmental psychology
Exercise and wellness education	Latin American history	Experimental psychology
Music education	U.S. history	Physiological psychology
Physical education	Industrial Engineering	Social psychology
Reading education	Computer aided processes	Science and Engineering of Materials
Science education	Computer integrated manufacturing	Social Work
Special education	Human factors	Sociology
Economics	Information systems	Spanish
Educational Leadership and	Operations research	Speech and Hearing Science
Policy Studies	Organization control	Developmental neurolinguistic
Educational Psychology	Quality control/reliability	disorders
Lifespan developmental psychology	Justice Studies	Neuroauditory processes
Measurement, statistics, and	Criminal and juvenile justice	Neurogerontologic communication
methodological studies	Dispute resolution	disorders
School psychology	Law, justice, and minority populations	Theatre
Electrical Engineering	Law, policy, and evaluation	Theatre for youth
Engineering Science	Woman, law, and justice	Zoology
English	Learning and Instructional Technology ¹	Ecology ³
Environmental Design and Planning	Instructional technology	Doctor of Public Administration
Design	Learning	Juris Doctor⁵
History, theory, and criticism	Mathematics	
Planning	Mechanical Engineering	

¹ Major offered toward more than one degree at the same level

² Not accepting applications

³ The major has only one formalized concentration, other areas of study are available

⁴ Courses for this program are offered at ASU East

⁵ Students apply to this degree program through the College of Law, not the Graduate College

Graduate Degrees and Majors Offered at ASU West

Master of Business Administration
Master of Education

Educational Administration and Supervision
 Elementary Education
 Secondary Education

Summer Sessions

Carol Switzer, M.S.
Director



The summer sessions, offering more than 2,000 fully accredited courses, provide an opportunity for students to begin or continue academic work on a year-round basis. Summer courses are equivalent to fall and spring courses in content, credit awarded, and expected standard of performance. All ASU Main courses (except some EPE courses) are held in air-conditioned classrooms or laboratories. A limited number of courses are offered at off-campus locations.

There are three regular sessions, one of eight weeks and two of five weeks. The eight-week session and the first five-week session begin the same date.

During the summer, ASU also offers students the opportunity to earn graduate or undergraduate credit while studying in foreign countries through various Summer Study Programs. These programs are directed by ASU faculty and have been approved by the appropriate academic unit.

Admission and Registration. The admission and registration process for summer sessions begins when the *Summer Sessions Bulletin* is distributed.

Admission. All students must be admitted to ASU for the summer as a nondegree student before enrolling, except for continuing students attending ASU during the spring semester preceding the current summer. New ASU students admitted for the fall semester following the current summer must process the summer nondegree admission form before enrolling.

Nondegree graduate or undergraduate. The application form is provided in the *Summer Sessions Bulletin*. The sub-

mission of transcripts or test scores is not required for this status.

Readmission. ASU students not enrolled during the spring semester preceding the current summer must be re-admitted. See "Readmission to the University," pages 57-58.

Conditional admission before graduation from high school may be granted. See "Admission before Graduation from High School," page 50.

Advising. All students are strongly encouraged to seek academic advising before enrolling in summer courses. See "Academic Advising," page 57.

Fees and Expenses. Summer sessions students pay for the actual number of semester hours enrolled, the Financial Aid Trust Fee, and the Student Recreation Complex fee. See the current *Summer Sessions Bulletin*.

Food Services. Meal plans are available. For more information, phone 602/965-3464 or write to

MARRIOTT FOOD SERVICE
ARIZONA STATE UNIVERSITY
PO Box 870901
TEMPE AZ 85287-0901

Housing. Air-conditioned dormitories are available for ASU Main students. For more information, phone 602/965-3515 or write to

RESIDENCE LIFE
ARIZONA STATE UNIVERSITY
PO Box 870801
TEMPE AZ 85287-0801

Immunization. Students born after December 31, 1956, are not permitted to register without proof of measles

(rubeola) immunity or immunization given after January 1, 1980. See "Immunization Requirements," pages 47-48.

Parking. A decal is required to park at ASU. For more information, phone 602/965-6124 or write to

PARKING SERVICES
ARIZONA STATE UNIVERSITY
PO Box 870704
TEMPE AZ 85287-0704

Registration. Registration may be completed in person or by using InTouch. See the current *Summer Sessions Bulletin*.

A maximum of seven semester hours in each five-week session or nine semester hours in the eight-week session may be taken. Hours of enrollment in any other institution or correspondence course are included in the maximum allowable course load during any given session.

Summer Sessions Bulletin. The *Summer Sessions Bulletin*, which contains the class schedule, the nondegree admission form, and the registration procedure, is available the last week of January at the Office of Summer Sessions, ADM B109, and all registrar sites.

To request the *Summer Sessions Bulletin*, summer study abroad brochures, or other summer information, phone 602/965-6611 or write to

OFFICE OF SUMMER SESSIONS
ARIZONA STATE UNIVERSITY
PO Box 873003
TEMPE AZ 85287-3003

International Programs

Donald McTaggart, Ph.D.
Director

In a world of increasing interdependence, Arizona State University seeks to interact with intellectual and educational cultures throughout the world. International Programs endeavors to develop a global competence for students, faculty, and ASU as a whole. International Programs encourages students to study abroad, faculty to teach and conduct research in contact with scholars around the world, and the institution to develop fruitful forms of collaborative work with a variety of higher learning entities abroad.

The university, in its endeavors to fulfill these functions, takes cognizance of the rapidly changing world of the late 20th century. Canada and Mexico hold a special relationship as a result of proximity and membership in the North American Free Trade Agreement (NAFTA). Europe is rapidly developing as a supranational unit in the form of the European Community with an ethos of its own. The Pacific Rim constitutes one of the most dynamic economic regions of the world. All of these regions are interconnected through swiftly developing information channels, whose power is quickly changing the contours of higher education.

The International Programs office is administratively part of the Office of the Senior Vice President and Provost. Its functions include developing and administering university programs abroad, encouraging faculty participation in exchanges, and pursuing relationships with foundations and agencies intent on furthering the international character of ASU.

Academic Programs

ASU has a number of programs intended to enhance international perspectives in the student population. They are broadly of two kinds—study abroad programs and student exchange programs.

Study Abroad Programs. Study abroad programs are arrangements with educational institutions abroad such that ASU students can study in these institutions and, at the completion of their period of study—normally either a semester or a full academic year—earn ASU resident credit for the courses taken. Outgoing ASU students are charged a program fee, and arrangements are usually made for accommodations and other student needs. ASU registration

fee and tuition waivers are not normally applicable toward the costs of study abroad programs. Financial aid such as scholarships, grants, and loans may, in most cases, be applied to program costs. Once on site, ASU students may be placed in special classes created for them, or they may study alongside students from other countries.

Study abroad programs generally fall into one of three categories: language immersion programs, “island” programs, and programs in which courses are offered in English. ASU immersion programs, in which students learn the language of the host country with little or no previous language knowledge, include programs in Germany, Israel, Italy, Mexico, and Portugal. “Island” programs are those in which students take courses taught in the host country language and frequently live with host families. The courses are designed to be offered to foreign (not host country) students. ASU offers such programs in France and Spain. Programs in which students can take courses taught in English are offered in the United Kingdom but may also be offered in certain institutions in non-English speaking countries.

Exchange Programs. Exchange programs are those in which a small number of ASU students may study at a foreign institution, in return for which students from that institution have a reciprocal opportunity to study at ASU. ASU students pay their normal registration fees and tuition at ASU even though they attend the institution with which they are being exchanged. In general, ASU registration fees and tuition may be paid by scholarships or waivers. Financial aid may, in most cases, be applied to the costs of exchange programs. As in the case of study abroad programs, ASU students earn ASU resident credit on these exchange programs. Exchange programs offer students the chance to enter the mainstream of university life in the country of their choice. Normal participation in an exchange program is dependent on prior attainment of an adequate level of language competence to be able to function in classes in the host country.

In several instances, students may have the opportunity to undergo advanced level intensive language instruction for approximately one month in the host country before the start of

the academic year. The costs of these intensive language programs are not included in tuition and registration fees paid to ASU for an exchange.

ASU has exchange agreements in several countries, including Bolivia, Canada, France, Germany, Japan, Mexico, the Netherlands, Norway, and United Kingdom. These and other possible locations are under constant review.

Non-ASU Programs Abroad. ASU students may participate in non-ASU programs abroad. For cases in which ASU has a consortium-type agreement, resident credit may be obtained under conditions approved by Undergraduate Admissions. Financial aid may be applicable to meet the costs of these programs.

Area Studies Programs. International Programs maintains close liaison with area studies programs, such as the Center for Asian Studies, the Center for Latin American Studies, and the Program for Southeast Asian Studies, among others. Some of the administration of exchange programs may be carried out in these offices. A close rela-

tionship is also maintained with the Department of Languages and Literatures in view of the extreme importance of language learning and competence in the successful completion of both study abroad and exchanges. The College of Business also maintains a student advisory system for College of Business students intending to go abroad.

Procedures. Students interested in participating in such programs should identify their interests as soon as possible—in the freshman year if language learning is to be involved. Students should express their interests to the International Programs office in MOEUR 124; if need be, students are directed to other offices from there. It is essential to consult with a departmental program advisor, since the return of credits ultimately depends on the concurrence of the faculty advisors. Students on an official study abroad or exchange program retain the catalog status they held at the time of their departure.

Information on the status of programs can be obtained from the International Programs office in MOEUR 124 or from the International Programs

World Wide Web home page (<http://www.asu.edu/provost/ipoasu>).

Before participating in a study abroad or an exchange program, students are required to complete an information package. An interview is conducted, and students are also required to attend an orientation that may last more than one day. Program fees as applicable have to be paid and deadlines met. Students should keep themselves informed of any applicable refund procedures, noting that, since study abroad and exchange arrangements sometimes commit the university, refunds are not always possible in full or in part. ASU fee refund schedules do not apply.

Other Activities

International Programs seeks to encourage a wide range of other academic activities. These activities include exchanges of faculty members and the development of institutional relationships with universities overseas to encourage joint research projects. The office also assumes responsibility for a considerable number of visitors who come from overseas to visit the ASU campus.



ASU East

Ben R. Forsyth, M.D.
Interim Provost

The creation of ASU East, the university's third anchor campus, was approved by the State Legislature in 1994 and is located at the former Williams Air Force Base at Williams Field Road and Power Road in Mesa. Starting fall 1996, ASU East is the home campus for the School of Agribusiness and Environmental Resources and the School of Technology, offering the only baccalaureate and master's degree programs of their kind in Arizona. Students in these programs have a choice of upper- and lower-division general education courses offered in partnership with the Maricopa Community College District, and students interested in other majors are able to get a solid program in general education at ASU East. Innovative programs in the arts and sciences and selected professional areas are under development. In addition to classrooms and laboratories, ASU East offers residential life in single family homes and dormitories as well as a computer center, library access, food service, student services and activities, and a full range of athletic and recreational facilities. ASU East will evolve as a residential full-service campus with its own unique character, serving 5,000 to 10,000 students by 2010.

For more information, call 602/965-3278.

School of Agribusiness and Resource Management

Eric P. Thor
Director
(ASU East) 602/965-3585

PROFESSORS

CHALQUEST, EDWARDS, GORDON,
KAGAN, STILES, THOR

ASSOCIATE PROFESSORS

RACCACH, SEPERICH

ASSISTANT PROFESSORS

PATTERSON, RICHARDS

PROFESSORS EMERITI

BARRETT, LYTLE, MADDY,
V. MILLER, MOODY, RASMUSSEN,
RICHARDSON, ROBINSON, TAYSOM

PURPOSE

The School of Agribusiness and Resource Management provides academic programs directed toward agribusiness and resource management aspects of agriculture. Agribusiness is a dynamic industry that provides employment to a large percentage of the U.S. labor force. Resource management focuses



on the basics of agriculture management, marketing, and finance to provide a sustainable system for the needs of future generations. Courses in the School of Agribusiness and Resource Management are designed to prepare students for the wide range of job opportunities that exist in the agricultural industries and governmental agencies. The academic programs are especially designed to meet the needs of the urban student who has had little or no previous agriculture experience. An interest in plants, animals, or foods can be the starting point for career development in agricultural industries or resource management. The undergraduate programs also provide the necessary training for students preparing to enter graduate degree programs.

Center for Agribusiness Policy Studies

The Center for Agribusiness Policy Studies carries out research and development relating to agribusiness, rural development, multiple use of scarce resources, and public policy. The center addresses regional, national, and international development in the context of global and competitive markets for agricultural products and inputs. Of particular interest is the development of private sector strategies and public policy alternatives that go beyond traditional government subsidy programs to find innovative, market oriented ways to enhance competitiveness in international markets, increase rural incomes and create new jobs. A related center concern is the development of "win win" strategies for resource management and the multiple use of scarce resources by competing interest groups. The goal of such policy development is to resolve or manage conflict regionally, nationally, or globally and to promote long term, sustainable agriculture in terms of regional economic growth. Of particular interest to the center are innovative rural credit programs for developing nations, strategic marketing to identify profitable "niche" markets and further processing to create jobs and add value to agricultural products. For more information, contact the director of the Center for Agribusiness Policy Studies at 602/965 3585.

DEGREES

Bachelor of Science (B.S.). The School of Agribusiness and Resource Management offers the Bachelor of Science degree in Agribusiness with concentrations in agribusiness (with options in food industry, general agribusiness, and international agribusiness), computer analysis, and pre veterinary medicine.

Master of Science (M.S.). The School of Agribusiness and Resource Management offers the Master of Science degree in Agribusiness. The program includes research and the preparation of a thesis. A minimum of 30 semester hours of graduate level course work is required for the degree. Additional details for this degree are given in the *Graduate Catalog*.

ADMISSION

See pages 47 52, 63-64, and 264-265 for information regarding requirements for admission, transfer, retention, disqualification, and reinstatement

In addition, students who are beginning their initial college work in the School of Agribusiness and Resource Management should present secondary school units in accordance with the minimum university requirements. There are no secondary school agricultural course requirements.

DEGREE REQUIREMENTS

The completion of a minimum of 120 semester hours including First Year Composition, General Studies, the school and major cores and option courses leads to the B.S. degree. An overall GPA of 2.00 is required. Of the semester hours required for graduation, a minimum of 50 semester hours must be upper division. Also see special graduation requirements under the pre veterinary medicine concentration described on pages 423-424.

GRADUATION REQUIREMENTS

In addition to fulfilling school and major requirements, majors must satisfy the General Studies requirement as noted on pages 71 74 and all university graduation requirements as noted on pages 66-70, including First Year Composition.

See pages 74-94 for a list of approved General Studies courses. Students should consult with a school academic advisor on courses that are most appropriate for fulfilling the various requirements

MAJOR

The Agribusiness major is an applied, industry oriented curriculum. The study of animals, plants, and their utilization in the food and fiber system forms the base of the program. Students learn to analyze firms involved in input supply activities, commodity processing, food manufacturing, and food distribution. Students also study government agricultural programs and national policy activities that affect agribusiness. Because of the U.S. role in supplying commodity and food products to the world markets, international aspects of agribusiness development and trade are emphasized.

The baccalaureate degree requirements in Agribusiness include the General Studies, the Agribusiness core, a proficiency core, the major core, and the option courses and elective courses to complete the graduation requirement of 120 semester hours. Before entering the junior year, each student, with the aid of an advisor, is expected to select an option.

COURSE REQUIREMENTS

All students pursuing a B.S. degree in the School of Agribusiness and Resource Management must satisfy First Year Composition and General Studies requirement as follows:

First-Year Composition	
ENG 101, 102 First Year	
Composition*	6
or ENG 105	
Advanced First Year	
Composition (3)	
General Studies	
<i>Literacy and Critical Inquiry</i>	
L1 course	3
AGB 444 Agribusiness Analysis L2	3
Numeracy [†]	
Numeracy courses	6

* See the school academic advisor for approved courses.

NOTE For the General Studies requirement, codes (such as L1, N3 C and H), and courses, see pages 71 94. For graduation requirements, see pages 66-70. Omnibus courses are offered that are not listed in the catalog, see pages 44-45.

Humanities and Fine Arts and Social and Behavioral Sciences
15 semester hours minimum)

At least one course must be upper division, two courses must be from the same department, and two departments or more must be represented in the total selection

HU courses	6-9
SB courses	6-9
<i>Natural Sciences*</i>	
S1/S2 courses	8
Total General Studies	35

* See the school academic advisor for approved courses.

Six semester hours taken in two of the three awareness areas are required in the final list of courses offered in the student's graduation program of study. If desired, these courses can be included in the HU and SB course selections.

Agribusiness Core

All students pursuing a B.S. degree in the school must complete the following general core courses:

AGB 300	Livestock Management	3
AGB 302	Introduction to Agribusiness	3
AGB 310	Crop Management	3
Total		9

The following proficiency core courses are required of all students except those in the pre veterinary medicine option:

BIO 100	The Living World S1/S2 or BIO 181 General Biology S1/S2 (4)	4
CHM 101	Introductory Chemistry S1/S2 or CHM 113 General Chemistry S1/S2 (4) and CHM 115 General Chemistry with Qualitative Analysis S1/S2 (5)	4
ECN 111	Macroeconomic Principles SB...	3
MAT 117	College Algebra NI or MAT 210 Brief Calculus NI (3)	3
Computer course*		3
Total		17

* A list of acceptable courses is available in the School of Agribusiness and Resource Management Office.

AGRIBUSINESS

The Agribusiness major offers several concentrations and options. It combines business and technical agriculture as they relate to the management, marketing, and financial objectives of agribusiness firms. Topics of interest include the supplying of input resources and services to agricultural producers, the management of crop and livestock enterprises, the processing of raw agricultural products and the management and quality assurance of food manufacturing. Food distribution is examined from the points of view of food wholesalers and retailers as well as food service firms, which include restaurants and specialized food firms. The study of agribusiness also includes analysis of the critical roles of government in regulating certain aspects of agribusiness and promoting international trade in agribusiness products.

Agribusiness. The agribusiness concentration contains the general agribusiness, international agribusiness, and food industry options.

General agribusiness integrates the knowledge and skills needed to manage people, products, and services in agribusiness enterprises. Agribusiness management combines the agricultural sciences, behavioral science, and common sense. Functional, institutional, and behavioral aspects of marketing are examined while studying the flows of products and services through the various market channels for agricultural inputs, commodities, and food. Emphasis is placed on up to date management/marketing methods that allow graduates to meet challenges in the food and fiber industries. Graduates are qualified to make significant contributions in a broad range of career opportunities that exist in agribusiness. Many start career paths that lead to upper level agribusiness management/marketing positions.

International agribusiness relates worldwide agricultural resources to the requirements and potentials of the various nations. Particular emphasis is given to economic development and to the international trade of food and fiber products. Special courses are offered to form a unique curriculum that is designed to train either the U.S. or foreign student to work in the enhancement of

agricultural programs of foreign countries. Provided is a basic knowledge of U.S. agricultural techniques that is extended to the global aspects of agriculture. Graduates in this area are particularly qualified to aid in the development of the world's agricultural potential to provide food to meet the expanding populations. Jobs exist in commercial industries and in government agencies national, international, and foreign. A language capability in addition to English is recommended.

Food industry focuses on the scientific and technical competence required for employment in this field. Strong emphasis is given to basics such as chemistry, food processing, and food safety. This unique program offers employment opportunities for graduates in food industries, regulatory agencies, and consumer organizations.

Students selecting the agribusiness concentration are required to take the following courses:

AGB 312	Agribusiness Marketing	3
AGB 332	Agribusiness Finance	3
AGB 342	Agribusiness Management I	4
AGB 364	Agribusiness Technology	3
AGB 390	Agribusiness Accounting or ACC 230 Introductory Accounting I (3)	3
AGB 412	Agricultural Commodities	3
AGB 444	Agribusiness Analysis L2	3
AGB 490	Recent Advances in Agribusiness	1
Total		23

Also recommended are:

AGB 443	Agribusiness Management II	3
AGB 455	Agricultural Marketing Channels	3
AGB 458	International Agribusiness G	3
AGB 474	Agribusiness Policy and Government Regulations	3
ECN 112	Microeconomic Principles SB	3

Typical Curriculum for the Agribusiness Concentration

First Year

AGB 101	Food Chain G	2
CHM 101	Introductory Chemistry S1/S2	4
ENG 101, 102	First Year Composition	6
MAT 117	College Algebra NI	3
General elective courses		9
SB awareness area courses		6
Total		30

Second Year

AGB 302	Introduction to Agribusiness	3
AGB 390	Agribusiness Accounting	3
ECN 111	Macroeconomic Principles SB	3
ECN 112	Microeconomic Principles SB	3
	Agribusiness electives courses	6
	General elective courses	6
	HU awareness area courses	6
Total		30

Third Year

AGB 300	Livestock Management	3
AGB 310	Crop Management	3
AGB 312	Agribusiness Marketing	3
AGB 332	Agribusiness Finance	3
AGB 342	Agribusiness Management I	4
AGB 364	Agribusiness Technology	3
	Numeracy elective N2/N3	3
	Option courses	6
	Electives	3
Total		31

Fourth Year

AGB 412	Agricultural Commodities	3
AGB 443	Agribusiness Management II	3
AGB 444	Agribusiness Analysis L2	3
AGB 455	Agricultural Marketing Channels	3
AGB 458	International Agribusiness G	3
AGB 474	Agribusiness Policy and Government Regulations	3
AGB 490	Recent Advances in Agribusiness	1
	General elective courses	4
	Option courses	6
Total		29

Pre-veterinary Medicine. This concentration is primarily designed to meet the entrance requirements of professional veterinary medical schools in the United States and Canada. Selection of this area permits students to complete the pre-veterinary requirements for entrance to professional veterinary school. The curriculum permits the student to obtain some course work in agribusiness, especially as it relates to professional practice and industry. This background also provides an important alternative for the student who does not actually enter veterinary school. Completion of all requirements for a B.S. degree in Agribusiness at ASU is provided by completing additional credits,

if desired. A pre-veterinary medicine student who has been accepted to a school of veterinary medicine and who also elects to earn a B.S. degree in the School of Agribusiness and Resource Management may do so by completing a minimum of 30 semester hours at ASU and by completing the school requirements and the General Studies requirement. The student may then receive a written statement from the dean of the College of Engineering and Applied Sciences giving senior in absentia privileges. The student is eligible to receive the B.S. degree after the Office of the Registrar receives a recommendation from the dean of the professional school and a transcript of credit indicating the student has completed a total of 120 semester hours with a cumulative GPA of 2.00 or better.

Although this concentration is primarily intended for the student preparing to enter professional veterinary medicine as a career, it is also an excellent basis for future graduate degree programs or many of the scientifically related jobs in agribusiness and government.

Students selecting the pre-veterinary medicine concentration are required to take these proficiency core courses

BIO 181, 182	General Biology S1/S2	8
CHM 113	General Chemistry S1/S2	4
CHM 115	General Chemistry with Qualitative Analysis S1/S2	5
CHM 231	Elementary Organic Chemistry S1/S2 ¹ or CHM 331 General Organic Chemistry, 335 General Organic Chemistry Laboratory, 332 General Organic Chemistry, and 336 General Organic Chemistry Laboratory (8)	4
MAT 117	College Algebra NI or MAT 210 Brief Calculus (3)	3
MIC 206	Microbiology Laboratory S2 ²	1
MIC 220	Biology of Microorganisms	3
Total		28

¹ Both CHM 231 and 235 must be taken to secure S1 or S2 credit

² Both MIC 205 and 206 must be taken to secure S2 credit

Typical Curriculum for the Pre-veterinary Medicine Concentration

First Year

CHM 113	General Chemistry S1/S2	4
CHM 115	General Chemistry with Qualitative Analysis S1/S2	5
ENG 101, 102	First Year Composition	6
MAT 117	College Algebra NI or MAT 210 Brief Calculus NI (3)	3
HU, SB	awareness area courses	12
Total		30

Second Year

AGB 300	Livestock Management	3
AGB 353	Wildlife and Domestic Animal Nutrition	3
BIO 181, 182	General Biology S1/S2	8
CHM 231	Elementary Organic Chemistry S1/S2 ¹ or CHM 331 General Organic Chemistry, 335 General Organic Chemistry Laboratory, 332 General Organic Chemistry, and 336 General Organic Chemistry Laboratory (8)	4
	General elective courses (upper division)	9
	HU awareness area courses	3
Total		30-34

Third Year²

AGB 439	Veterinary Practices	3
BIO 340	General Genetics	4
CHM 361	Principles of Biochemistry	3
CHM 367	Elementary Biochemistry Laboratory	1
MIC 206	Microbiology Laboratory S2 ³	1
MIC 220	Biology of Microorganisms	3
PHY 111, 112	General Physics S1/S2 ⁴	6
PHY 113, 114	General Physics Laboratory S1/S2 ⁴	2
	General elective courses	3
	Numeracy elective N2/N3	3
Total		29

¹ Both CHM 231 and 235 must be taken to secure S1 or S2 credit

² See "Veterinary College Acceptance" after this table.

³ Both MIC 205 and 206 must be taken to secure S2 credit.

⁴ Both PHY 111 and 113 or PHY 112 and 114 must be taken to secure S1 or S2 credit.

Fourth Year²

General elective courses	4
Supporting courses (AGB) ...	15
Upper division courses	12
Total	31

² See "Veterinary College Acceptance" after this table.

Veterinary College Acceptance. Assuming the student has applied and has been accepted to a veterinary college during the beginning of the third year, the courses from the first year of the veterinary program are substituted for the classes of the fourth year for the B.S. degree.

AGRIBUSINESS**AGB 101 Food Chain.** (2) F

Dependence of the quality, quantity, and cost of national food supplies on technology, marketing, and world agricultural policies *General Studies G*

150 Animal Science. (3) F

Comparative growth, development, and propagation of farm animals. Lecture/lab

160 Veterinary Medicine Today. (3) F

Introduction to the role of the veterinarian as related to the fields of food supply and veterinary medicine

300 Livestock Management. (3) F

Methods of managing livestock enterprises, economics, loss prevention, and marketing. Prerequisites: BIO 100

302 Introduction to Agribusiness. (3) F

Impact of national policy and world agriculture on the cost, quantity, and quality of the U.S. food resources

305 Cultural Diversity in Agribusiness. (3) F

A critical look at how different cultural traditions as practiced in the Southwest have impacted and continue to shape regional agricultural economies. Prerequisites: ENG 101 102

310 Crop Management. (3) S

Crop production, management principles, and the application to crop growth and development. Prerequisites: BIO 100.

312 Agribusiness Marketing. (3) F

Marketing arrangements for agricultural products. Prerequisite: ECN 111

332 Agribusiness Finance. (3) S

Agribusiness investment management and financial institutions that serve agriculture. Prerequisites: ECN 111

335 Establishing an Agribusiness. (3) F

Establishing entrepreneurship in agriculture including legal status, financing, planning, marketing, and management. Prerequisite: junior standing

342 Agribusiness Management I. (4) S

Principles of management including planning, organizing, integrating, measuring, and developing people in agribusiness organizations. Lecture, computer lab

353 Wildlife and Domestic Animal Nutrition. (3) S

Feedstuffs, feeding standards, and the application in meeting nutritional needs of animals producing food and fiber.

364 Agribusiness Technology. (3) S

Biotechnology and other technologies of the three sectors of agribusiness including input, production, and commodity/food processing and distribution. Prerequisites: BIO 100.

368 Food Processing. (3) F

An introduction to processed food quality assurance, statistical sampling, and inspection procedures. Prerequisites: AGB 364

369 Food Analysis. (3) F

Processing control and scientific instrumentation used in food quality assurance laboratories. Lecture/lab. Prerequisites: CHM 101.

390 Agribusiness Accounting. (3) N

Introduction to managerial accounting for agribusiness using computerized accounting systems for the development of financial data required for management decision making. Prerequisite: computer literacy

402 Agricultural Cooperatives. (3) N

Organization, operation, and management of agricultural cooperatives

404 Sales and Merchandising in Agribusiness. (3) N

The principles and techniques of selling and commodity merchandising in the agricultural industries

412 Agricultural Commodities. (3) F

Trading on futures markets. Emphasis on the hedging practices with grains and meats. Prerequisite: AGB 312 or 1 market or finance course

413 Financial Commodities. (3) S

Trading on futures markets. Emphasis on the hedging practices with financial and currency instruments. Prerequisite: AGB 332 or FIN 300

414 Advanced Commodity Trading. (3) N

Advanced analysis of trading techniques, with emphasis on hedging in the futures markets. Prerequisite: AGB 412 or 413.

423 Food and Industrial Microbiology. (4) F

Food and industrial related microorganisms, deterioration, and preservation of industrial commodities. Lecture/lab. Prerequisite: MIC 205 or 206 or instructor approval

424 Food and Industrial Fermentations. (4) S

Management, manipulation, and metabolic activities of industrial microorganisms and their processes. Lecture/lab. Prerequisite: AGB 423 or instructor approval.

425 Food Safety. (3) S

Control, prevention, and prediction of microbial and chemical foodborne diseases. Prerequisite: AGB 423 or instructor approval

426 Food Chemistry. (4) S

The biochemical and chemical interactions that occur in raw and processed foods. Lecture/lab. Prerequisites: CHM 115, 231

428 Comparative Nutrition. (3) N

Effects of nutrition on animal systems and metabolic functions. Prerequisite: CHM 231

433 Diseases of Domestic Animals. (3) N

Control and prevention of infectious and non-infectious diseases of domestic animals. Prerequisite: MIC 206 or 220.

435 Animal Physiology I. (4) F

Control and function of the nervous, muscular, cardiovascular, respiratory, and renal systems of domestic animals. Prerequisites: BIO 181, CHM 113

439 Veterinary Practices. (3) F

Observation of and participation in veterinary medicine and surgery supervised by local veterinarians. Prerequisite: advanced pre-veterinary student

440 Food Marketing. (3) S

Food processing, packaging, distribution, market research, new food research and development, and social implications. Prerequisite: AGB 312

443 Agribusiness Management II. (3) F

Principles of human resource management, with emphasis on the special problems of agribusiness systems. Prerequisite: AGB 302.

444 Agribusiness Analysis. (3) S

Analysis of agribusiness firm decisions in the ecological, economic, social, and political environments. Special emphasis on ethical issues surrounding food production and consumption. Prerequisites: AGB 312 and 332 or equivalent. *General Studies L2.*

450 International Agricultural Development. (3) F

Transition of developing countries from subsistence to modern agriculture. Technology transfer and food improvement programs are emphasized. *General Studies G.*

452 World Food Dynamics. (3) N

Transition and development of raw agricultural commodities into nutritional food products. Emphasis given to food expansion in developing countries. *General Studies G*

453 World Agricultural Resources. (3) S

World production and consumption of agricultural products, international relations, and agencies concerned with world agricultural development problems. *General Studies: G*

454 International Agricultural Trade. (3) N

Demands, locations, mix, methods, and changes of international trade in agricultural products. Prerequisite: AGB 312.

455 Agricultural Marketing Channels. (3) S

Operational stages of agricultural commodities in normal distribution systems and implementation of marketing strategies. Prerequisite: AGB 312

458 International Agribusiness. (3) N

Identification and analysis of methods, problems, and future of international agribusiness operations. Emphasis on special problems associated with international agribusiness systems. Prerequisite: AGB 312. *General Studies G.*

460 Agribusiness Management Systems. (4) S

The development and use of decision support systems for agribusiness management and marketing. Lecture/lab. Prerequisite: AGB 302

474 Agribusiness Policy and Government Regulations. (3) F

The development and implementation of government food, drug, pesticide, and farm policies and regulations that affect the management of agribusiness. Prerequisite: AGB 302

490 Recent Advances in Agribusiness. (1) F

Reports and discussions of current topics and problems associated with agribusiness. May be repeated for credit

505 Commodity Analysis. (3) N

Analysis of commodity markets. Prerequisites: 1 year of economics or marketing

508 Advanced Agribusiness Marketing. (3) F

Theory and analysis of marketing farm commodities and the effect of future trading on cash prices

509 Advanced Agribusiness Marketing Channels. (3) S

Analysis of agribusiness market channel systems. Formulation of marketing strategies

510 Advanced Agribusiness Management I.

(4) F

Managing and financing agribusiness emphasizing environmental and economic sustainability in a global economy undergoing radical change. Prerequisite: AGB 342

511 Advanced Agribusiness Management II. (3) S

Analysis of organization behavior, change and resource requirements within agribusiness systems. Prerequisite: AGB 342.

512 Food Industry Management. (3) S

Operations and management of food processing factories, food distribution centers, and retail food-handling firms

516 International Agricultural Techniques. (3) N

Coordination of production and marketing techniques to consume on objectives within agricultural products in foreign countries.

518 World Agricultural Development. (3) N

Factors that influence production, processing, and marketing of agricultural products in developing countries.

520 Advanced Agribusiness Analysis I. (4) S

Vertical integration and differentiation in food and agricultural industries. Lecture/recitation. Prerequisites: AGB 508 or 510.

521 Agribusiness Coordination. (4) N

Organization alternatives for agribusiness with emphasis on cooperatives and trading companies. Lecture/recitation. Prerequisites: AGB 508 or 510

525 Advanced Agribusiness Management Systems. (3) N

Development and use of decision support systems for agribusiness management decision making. Prerequisite: AGB 510.

527 Agribusiness Research Methods. (3) N

The use of modeling, hypothesis testing, and empirical analysis in solving agribusiness problems

530 Advanced Agribusiness Policy. (3) N

Policy making history, structure, and process. Prerequisite: AGB 342

532 Advanced Agribusiness Finance. (3) F

Financial management of agribusiness firms. Agribusiness financial analysis, investment analysis, agricultural risk management, and introduction to agricultural financial derivatives. Prerequisites: computer literacy and 1 finance course or instructor approval.

535 Advanced Food Science. (3) N

Chemical and physical nature of processed foods. Emphasis on food product development. Prerequisite: AGB 364

School of Technology

Albert L. McHenry

Director

(ASU East) 602/965-3874

PURPOSE

The primary purpose of the school is to provide students the opportunity to obtain a quality education in technology and to qualify them directly for positions of leadership and responsibility in industrial, commercial, educational, and government activity.

The technology programs provide the opportunity to earn a degree that stresses theory reinforced by laboratory application—a more applied approach than engineering students experience. The technology programs assist in preparing for challenging career opportunities in industry and government for the forward-looking student. The technology graduate in industry becomes a member of the total engineering effort, contributing an applications orientation to complement the engineer's more theoretical concepts. The student is educated to render practical decisions with safety and economy in mind, to install and operate technical systems, to develop or improve a product, to revise systems, and to provide customer support when needed.

DEGREES

Bachelor of Science degree programs and options within each major are offered in the three departments as shown on pages 266–268. Each curriculum includes some elective courses that are reserved for the student's use to add a unique emphasis or dimension. These credits are traditionally referred to as technical electives and are normally restricted to upper division courses in technology, engineering, and computer science. In each case, the choice of technical electives must be approved by the student's faculty advisor and department chair. Requirements for each of the majors offered are described on the following pages.

In addition to the undergraduate degrees offered in the School of Technol-

ogy, the Master of Technology degree (M.Tech.) is offered by each of the three departments in technology in accordance with the details given on page 269. See the *Graduate Catalog* for complete details.

ADMISSION

See pages 47–52, 63–64, and 264–265 for information regarding requirements for admission, transfer, retention, disqualification, and reinstatement.

A preprofessional category is available for applicants deficient in regular admission requirements.

Entry into a program in one of the departments of technology as a freshman student requires three years of high school math (algebra I and II and geometry). High school chemistry and physics are recommended. Students without the required math background must take appropriate deficiency courses before entry or immediately upon enrollment at ASU. Associate degree transfer students are expected to have completed college algebra and trigonometry.

Students who begin their college education at institutions other than ASU with intent to transfer to ASU should consult the given major requirements and seek equivalent courses at the transfer institution. Any transfer courses from a community college are applied only as lower division credit.

The GPA requirement for admission of transfer students into the School of Technology is 2.25 for Arizona residents and 2.50 for nonresidents. The freshman and sophomore programs of study are designed to facilitate transfer of junior and community college students or associate degree graduates.

In addition, international students are required to have a TOEFL score of 500 for admission to a technology major.

DEGREE REQUIREMENTS

All baccalaureate degree programs in the School of Technology require completion of the university First Year Composition requirement, a General Studies component, and a core component related to each program. The engineering technology programs also require completion of an engineering

technology core. Refer to the individual department descriptive material for specific departmental degree requirements. All programs require a minimum of 128 semester hours.

Graduation Requirements

In order to qualify for graduation from the School of Technology, a student must have an overall GPA of at least 2.00 and a GPA of at least 2.00 for the required courses in the major field.

Course Requirements

The specific course requirements for First-Year Composition, General Studies, technology core, and the engineering technology core are listed below. Refer to the individual majors or options for their additional required courses.

First-Year Composition

ENG 101, 102	First-Year Composition	6
	or ENG 105	
	Advanced First-Year Composition	(3)

General Studies

Literacy and Critical Inquiry

ITC 200	Impact of Communication Technology in Society	
	<i>L1</i>	3

ETC 400	Technical Communications	<i>L2</i>	3
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Numeracy

ETC 100	Languages of Technology	4	
MAT 170	Precalculus	<i>N1</i>	3

Humanities and Fine Arts and Social and Behavioral Sciences
(15 semester hours minimum)

At least one course must be of upper-division level, two courses must be from the same department, and two or more departments must be represented in total selection.

HC and awareness area courses	6-9	
SB and awareness area course(s)	3-6	
ECN 111	Macroeconomic Principles <i>SB</i>	3
<i>Natural Sciences</i>		
PHY 111	General Physics <i>S1/S2</i> ¹	3
PHY 112	General Physics <i>S1/S2</i> ²	3
PHY 113	General Physics Laboratory <i>S1/S2</i> ¹	1
PHY 114	General Physics Laboratory <i>S1/S2</i> ²	1
Total General Studies		36

¹ Both PHY 111 and 113 must be taken to secure S1 or S2 credit.
² Both PHY 112 and 114 must be taken to secure S1 or S2 credit.

Engineering Technology Core

The following courses constitute the engineering technology core and are required in all baccalaureate degree programs in the engineering technologies:

CHM 113	General Chemistry or CHM 114 General Chemistry for Engineers	(4)	4
ETC 201	Applied Electrical Science or EET 208 Electric Circuits	(3)	4
ETC 211	Applied Engineering Mechanics: Statics		3
ETC 340	Applied Thermodynamics and Heat Transfer		3
MAT 260	Technical Calculus <i>IN1</i>		3
MAT 261	Technical Calculus II		3
Total			19-20

PROFESSIONAL ACCREDITATION AND AFFILIATIONS

The undergraduate programs in Aeronautical Engineering Technology, Electronics Engineering Technology, and Manufacturing Engineering Tech-

nology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology.

SPECIAL PROGRAMS

ASU 2+2 Programs. The School of Technology maintains a cooperative agreement with most community colleges within Arizona and also with selected out-of-state colleges and universities to structure courses that are directly transferable into the technology programs at ASU.

ENGINEERING TECHNOLOGY CORE

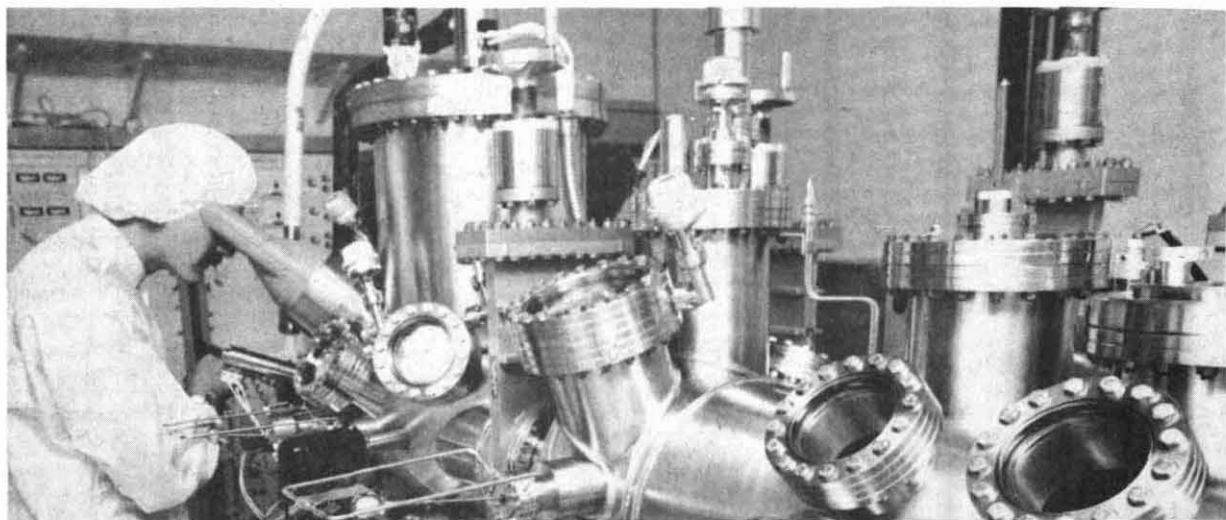
ETC 100 Languages of Technology. (4) F, S Introduction to computer-aided design, programming, modeling, and technical documentation. Lecture, lab.

201 Applied Electrical Science. (4) F, S, SS Principles of electricity, passive elements, and d-c/a-c circuit analysis. Laboratory exploration of circuits using instrumentation and the computer as tools. Lecture, lab. Prerequisites: ETC 100; MAT 170; PHY 112, 114.

211 Applied Engineering Mechanics: Statics. (3) F, S, SS Vectors, forces and moments, force systems, equilibrium, analysis of basic structures and structural components, friction, centroids, and moments of inertia. Prerequisites: MAT 261 or equivalent; PHY 111, 113.

340 Applied Thermodynamics and Heat Transfer. (3) F, S Thermodynamic systems and processes, first and second laws of thermodynamics, properties of pure substances, and applications to heat engines and special systems. Fundamentals of conduction, radiation, and convection. Prerequisites: MAT 261; PHY 112, 114.

400 Technical Communications. (3) F, S, SS Planning and preparing technical publications and oral presentations based on directed library research related to current technical topics. Prerequisites: completion of first-year English requirements; L1 course; senior standing as a CEAS major. *General Studies: L2.*



**Department of
Aeronautical
Technology**

William K. McCurry
Program Coordinator
(ASU East) 602/965 7775

PROFESSOR
GESELL

ASSOCIATE PROFESSORS
McCURRY, REED

ASSISTANT PROFESSOR
JACKSON

LECTURERS
DOUGLAS HOMAN, KARP, SPENCE

PROFESSORS EMERITI
CARLSEN, COX MATTHEWS
PEARCE, ROPER, SALMRS
SCHOEN, THOMASON

The Department of Aeronautical Technology offers two majors leading to a Bachelor of Science degree. The majors are Aeronautical Management Technology and Aeronautical Engineering Technology. The Aeronautical Management Technology major includes options in airway science aircraft systems management, airway science management, and *ab initio* airline pilot flight management.

Graduates are prepared for entry into the aviation and aerospace industry in productive, professional employment or, alternatively, for graduate study. The curricula emphasize the recognized principles underlying the application of technical knowledge as well as current technology, preparing the graduate to adapt to the rapid and continual changes in aviation and aerospace technology.

Admission

New and transfer students who have been admitted to the university, who meet the requirements for admission to the School of Technology, and who have selected Aeronautical Technology are admitted to Aeronautical Technology without separate application to the Department of Aeronautical Technology. Transfer credits are reviewed by department faculty advisors. To be ac-

ceptable for department credit, transfer courses must be equivalent in both content and level of offering.

Identified Lower-Division Courses

The 48 semester hours of *identified lower division courses*, listed below, should be completed satisfactorily before any upper division courses can be taken. Each of the *identified lower division courses* must be completed with a grade of C or better.

Identified Lower-Division Courses

AET 187	Private Pilot Ground School .. 3	
	or AET 184 <i>Ab Initio</i>	
	Theoretical Preparation I (3)	
AET 280	Aeronautical Structures, Materials, and Systems 4	
AET 287	Aircraft Powerplants 4	
CHM 114	General Chemistry for Engineers S1 S2 4	
CSE 181	Applied Problem Solving with BASIC N3 3	
	or CSE 183 Applied Problem Solving with FORTRAN V3 3	
ECN 111	Macroeconomics Principles SB 3	
ENG 01	First Year Composition 3	
ENG 102	First Year Composition 3	
ETC 100	Languages of Technology 4	
MAT 170	Precalculus VI 3	
MAT 260	Technical Calculus I VI 3	
PGS 101	Introduction to Psychology SB 3	
PHY 111	General Physics S1/S2 ¹ 3	
PHY 112	General Physics S1 S2 ² 3	
PHY 113	General Physics Laboratory S S2 1	
PHY 114	General Physics Laboratory S1 S2 ² 1	
Total		48

¹ Both PHY 111 and 113 must be taken to secure S1 or S2 credit

² Both PHY 112 and 114 must be taken to secure S1 or S2 credit.

AERONAUTICAL MANAGEMENT TECHNOLOGY—B.S.

The Aeronautical Management Technology curriculum is designed to provide a thorough technical background combined with an interdisciplinary general university education. The graduate is prepared to assume responsibilities in a wide area of managerial and technically related areas of aviation. The student gains a background

in aircraft structures, reciprocating and turbine engines, aircraft performance, design, management skills, business principles, systems analysis, and a variety of course work specific to aircraft flight, airport operations, and air transportation systems. The degree offers three options: *ab initio* airline pilot flight management, airway science management, and airway science aircraft systems management. Airway science management and airway science aircraft systems management curricula have the approval of the Federal Aviation Administration as airway science programs and can lead to employment in that agency. The options are described separately below.

All degree requirements are shown on Curriculum Check Sheets for the options. The requirements (see pages 277-278) include First Year Composition, General Studies, technology core, and aeronautical management technology core. Refer to the individual option degree requirements for additional required courses.

Aeronautical Management Technology Core

AET 182	Private Pilot Ground School .. 3
AET 280	Aero Structures, Materials, and Systems 4
AET 287	Aircraft Powerplants 4
AET 342	Aviation Law/Regulations 3
CSE 181	Applied Problem Solving with BASIC 3
	or CSE 100 Introduction to Computer Science (3)
	or CSE 183 Applied Problem Solving with FORTRAN (3)
ETC 100	Languages of Technology 4
ETC 201	Applied Electrical Science 4
MET 230	Engineering Materials 3
Total	28

Ab Initio Airline Pilot Flight Management Option

Flight training is certified by the Federal Aviation Administration

Ab initio airline pilot flight management combines academic studies and flight training to prepare graduates for positions within the air transportation industry, primarily in the area of flight operations. Theoretical preparation and flight training are specifically intended to prepare the student for employment in the scheduled airline industry.

NOTE: For the General Studies requirement codes (such as L1, N3, C, and H) and courses see pages 71-94. For graduation requirements see pages 66-70. Omnibus courses are offered that are not listed in the catalog; see pages 44-45.

This curriculum concentrates on flying plus the technical, management, and computer related applications necessary to operate in the high density environment of modern airspace. The program emphasizes critical thinking and cognitive, analytical, and communication skills. The career option leads to airline piloting and the development, administration, and enforcement of safety regulations including airworthiness and operational standards in civil aviation.

Ground classes and flight training in the *ab initio* airline pilot flight management option are tightly integrated and highly organized as a single, continuous training program. Each student begins actual flight training with the first lesson of the flight training syllabus and completes each lesson block in sequence, throughout the training. Flight experience and certificates received before entering *ab initio* training at ASU may or may not allow the individual student to progress more easily through the training, but may not be used to replace training requirements in the ASU program.

While enrolled at ASU, students do not receive college credit for flight instruction received at flight schools other than schools under contract with the university for *ab initio* flight instruction.

Flight instruction costs are not included in university tuition and fees. The estimated cost of ab initio flight training is \$60,000 in addition to normal university costs.

Degree Requirements

Ab initio airline pilot flight management students are required to complete a minimum of 128 semester hours, including at least 50 semester hours of upper division courses. Students in the *ab initio* airline pilot flight management option must also successfully complete qualification screening examinations before beginning *ab initio* flight training. Qualification screening includes a first-class medical examination, psychological evaluation, and a psychomotor skills tests. Students who do not pass the qualification screening examinations but are otherwise qualified may continue in Aeronautical Engineering Technology or in Aeronautical Management Technology, in either

the airway science management option or the airway science aircraft systems management option.

Course Requirements

All degree requirements are shown on the student's Curriculum Check Sheet.

In addition to the required courses (see pages 277-278) for First Year Composition, General Studies, and the aeronautical management technology core, the following additional courses are required:

AET	183	Private Pilot Certificate	1
AET	220	Aviation Meteorology	3
AET	222	Instrument Pilot Ground School	3
AET	300	Aircraft Design I	3
AET	304	<i>Ab Initio</i> Theoretical Preparation II	6
AET	314	Commercial Pilot Ground School	3
AET	324	<i>Ab Initio</i> Theoretical Preparation III	6
AET	330	<i>Ab Initio</i> Theoretical Preparation IV	3
AET	335	<i>Ab Initio</i> Airline Pilot Flight Training II	2
AET	362	<i>Ab Initio</i> Theoretical Preparation V	6
AET	363	<i>Ab Initio</i> Airline Pilot Flight Training III	6
AET	382	Air Navigation	3
AET	387	Multi engine Ground School	3
AET	462	<i>Ab Initio</i> Theoretical Preparation VI	6
AET	463	<i>Ab Initio</i> Airline Pilot Flight Training IV	6
AET	487	Aircraft Design II	3
CHM	114	General Chemistry for Engineers <i>SI/S2</i>	4
MAT	260	Technical Calculus <i>INI</i>	3

Suggested Course Pattern for Freshmen

First Semester

AET	182	Private Pilot Ground School	3
ECN	111	Macroeconomic Principles <i>SB</i>	3
ENG	101	First Year Composition	3
MAT	170	Precalculus <i>NI</i>	3
PHY	111	General Physics <i>SI/S2</i> ¹	3
PHY	113	General Physics Laboratory <i>SI/S2</i> ¹	1
Total.			16

Second Semester

AET	183	Private Pilot Certificate	1
AET	220	Aviation Meteorology	3
ENG	102	First Year Composition	3
ETC	100	Languages of Technology	4
MAT	260	Technical Calculus <i>INI</i>	3

PHY	112	General Physics <i>SI/S2</i> ²	3
PHY	114	General Physics Laboratory <i>SI/S2</i> ²	1
Total			18

¹ Both PHY 111 and 113 must be taken to secure S1 or S2 credit.
² Both PHY 112 and 114 must be taken to secure S1 or S2 credit

Airway Science Aircraft Systems Management Option

Flight training is certified by the Federal Aviation Administration.

Airway science aircraft systems management combines academic studies and flight training to prepare graduates for a wide variety of positions within the air transportation industry, including military, airline, and general aviation. Ground school and flight training are available, allowing the student to obtain private pilot, commercial pilot, and flight instructor certificates and also the instrument pilot, instrument instructor, and multiengine pilot ratings. Type rating in the Boeing 737 airliner is optionally available.

This curriculum concentrates on flying plus the technical, management, and computer-related applications necessary to operate in the high density environment of modern airspace. This career leads to the development, administration, and enforcement of safety regulations, including airworthiness and operational standards in civil aviation. The program emphasizes critical thinking, and cognitive, analytical, and communication skills. The airway science aircraft systems management option is approved by the Federal Aviation Administration as an Airway Science Program.

While enrolled at ASU, students do not receive college credit for flight activity or instruction received at flight schools other than schools with which the university has currently contracted for such instruction. Consideration is given for flight experience received before enrollment at the university. *Flight instruction costs are not included in university tuition and fees. The estimated cost of flight training is \$25,000 in addition to normal university costs.*

Degree Requirements

Airway science flight systems management students are required to complete a minimum of 128 semester hours, including at least 50 semester

hours of upper-division courses. All degree requirements are shown on the student's Curriculum Check Sheet.

Course Requirements

In addition to the required courses (see pages 277-278) for First Year Composition, General Studies, the technology core, and the aeronautical management technology core, the following additional courses are required:

AET 183	Private Pilot Certificate	1
AET 220	Aviation Meteorology	3
AET 222	Instrument Pilot Ground School	3
AET 283	Instrument Pilot Rating	1
AET 300	Aircraft Design I	3
AET 308	Air Transportation G	3
AET 314	Commercial Pilot Ground School	3
AET 344	Airport Management and Planning	3
AET 382	Air Navigation	3
AET 383	Commercial Pilot Certificate	2
AET 385	Flight Instructor Ground School	3
AET 386	Flight Instructor Certificate	1
AET 387	Multi engine Ground School	1
AET 389	Multi engine Rating	1
AET 391	Multi engine Instructor Ground School	2
AET 392	Flight Instructor Instrument Ground School	2
AET 393	Flight Instructor Instrument Rating	1
AET 395	Multi engine Land, Airplane Flight Instructor Rating	1
AET 408	National Airspace System	2
AET 410	Aviation Safety	3
AET 489	Airline Administration	2
CHM 114	General Chemistry for Engineers S1/S2	4
IST 346	Management Dynamics	3
IST 452	Industrial Human Resource Management	3
MAT 260	Technical Calculus I/NI	3
STP 420	Introductory Applied Statistics N2	3
Technical electives		2

Suggested Course Pattern for Freshmen

First Semester		
AET 182	Private Pilot Ground School	3
ECN 111	Macroeconomic Principles SB	3
ENG 101	First Year Composition	3
MAT 170	Precalculus NI	3
PHY 111	General Physics S1/S2 ¹	3
PHY 113	General Physics Laboratory S1/S2 ¹	1
Total		16

Second Semester

AET 183	Private Pilot Certificate	1
AET 220	Aviation Meteorology	3
ENG 102	First Year Composition	3
ETC 100	Languages of Technology	4
MAT 260	Technical Calculus I/NI	3
PHY 112	General Physics S1/S2 ²	3
PHY 114	General Physics Laboratory S1/S2 ²	1
Total		18

- ¹ Both PHY 111 and 113 must be taken to secure S1 or S2 credit
- ² Both PHY 112 and 114 must be taken to secure S1 or S2 credit

Airway Science Management Option

The airway science management option is designed to prepare graduates for managerial and supervisory positions throughout the air transportation industry. A depth of technical education is included along with a broad exposure to business and management courses. This program of study, interdisciplinary in nature, prepares the aeronautical career oriented student for such positions as air traffic control specialist, air carrier manager, airport manager, and general aviation operations manager.

Degree Requirements

Airway science management students are required to complete a minimum of 128 semester hours, including at least 50 semester hours of upper division courses. All degree requirements are shown on the student's Curriculum Check Sheet.

Course Requirements

In addition to the required courses (see pages 277-278) for First-Year Composition, General Studies, the technology core, and the aeronautical management technology core, the following additional courses are required:

ACC 230	Uses of Accounting Information I	3
AET 201	Air Traffic Control	3
AET 308	Air Transportation G	3
AET 344	Airport Management and Planning	3
AET 408	National Airspace System	2
AET 410	Aviation Safety	3
AET 489	Airline Administration	2
CHM 114	General Chemistry for Engineers S1/S2	4
HIS 304	American Cultural History SB, H	3

IEE 431	Engineering Administration	3
IST 346	Management Dynamics	3
IST 430	Ethical Issues in Technology	3
IST 452	Industrial Human Resource Management	3
IST 480	Organizational Effectiveness	3
IST 491	Introduction to Labor Concerns	3
MAT 260	Technical Calculus I/NI	3
PGS 101	Introduction to Psychology SB	3
STP 420	Introductory Applied Statistics N2	3
Technical electives		9

Suggested Course Pattern for Freshmen

First Semester

ECN 111	Macroeconomic Principles SB	3
ENG 101	First Year Composition	3
MAT 170	Precalculus VI	3
PGS 101	Introduction to Psychology SB	3
PHY 111	General Physics S1/S2 ¹	3
PHY 113	General Physics Laboratory S1/S2 ¹	1
Total		16

Second Semester

AET 182	Private Pilot Ground School	3
ENG 102	First Year Composition	3
ETC 100	Languages of Technology	4
MAT 260	Technical Calculus I/NI	3
PHY 112	General Physics S1/S2 ²	3
PHY 114	General Physics Laboratory S1/S2 ²	1
Total		17

- ¹ Both PHY 111 and 113 must be taken to secure S1 or S2 credit
- ² Both PHY 112 and 114 must be taken to secure S1 or S2 credit

AERONAUTICAL ENGINEERING TECHNOLOGY—B.S.

The Aeronautical Engineering Technology degree program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The curriculum is designed to prepare the graduate for professional-level technical support of engineering activities throughout the aerospace field. Areas of responsibility include the application of applied engineering practice related to aircraft and aerospace vehicle design, internal combustion engines, combustion processes, turbomachinery,

NOTE: For the General Studies requirement, codes (such as L1, N3, C, and H), and courses, see pages 71-94. For graduation requirements, see pages 66-70. Omnibus courses are offered that are not listed in the catalog, see pages 44-45.

systems analysis, computer modeling, quality assurance and nondestructive testing, and wind tunnel applications

Degree Requirements

Aeronautical Engineering Technology students are required to complete a minimum of 128 semester hours, including at least 50 semester hours of upper division courses. All degree requirements are shown on the student's Curriculum Check Sheet

GRADUATION REQUIREMENTS

In addition to fulfilling school and major requirements, majors must satisfy all university graduation requirements. See pages 66–70.

COURSE REQUIREMENTS

In addition to the required courses listed on pages 277–278 for First Year Composition, General Studies, and the engineering technology core, the following courses are required:

AET 182	Private Pilot Ground School	3
AET 280	Aerospace Structures, Materials, and Systems	4
AET 287	Aircraft Powerplants	4
AET 300	Aircraft Design I	3
AET 312	Applied Engineering Mechanics: Dynamics	3
AET 320	Applied Aerodynamics and Wind Tunnel Testing	4
AET 415	Gasdynamics and Propulsion	3
AET 487	Aircraft Design II	3
CET 483	UNIX Utilities Using C Language	3
CHM 114	General Chemistry for Engineers S1/S2	4
EET 406	Control System Technology	4
IEE 300	Economic Analysis for Engineers	3
MAT 262	Technical Calculus III	3
MET 230	Engineering Materials and Processing	3
MET 313	Applied Engineering Mechanics: Materials	4
MET 432	Applied Thermodynamics and Heat Transfer	3
MET 434	Applied Fluid Mechanics	3
MET 438	Design for Manufacturing II	4
Technical electives		10

Suggested Course Pattern for Freshmen

First Semester

ECN 111	Macroeconomics Principles SB	3
ENG 111	First Year Composition	3
MAT 170	Precalculus NI	3
PHY 111	General Physics S1/S2 ¹	3
PHY 113	General Physics Laboratory S1/S2 ¹	1
HU, SB, and awareness	area course	3
Total		16

Second Semester

AET 182	Private Pilot Ground School	3
ENG 102	First Year Composition	3
ETC 100	Languages of Technology	4
MAT 260	Technical Calculus NI	3
PHY 112	General Physics S1/S2 ²	3
PHY 114	General Physics Laboratory S1/S2 ²	1
Total		7

¹ Both PHY 111 and 113 must be taken to secure S1 or S2 credit

² Both PHY 112 and 114 must be taken to secure S1 or S2 credit

STUDENT ORGANIZATIONS

The department hosts the local chapter of Alpha Eta Rho, the international professional aviation fraternity, open to all with an interest in aviation. Students also are eligible for membership in Tau Alpha Pi, the national honor society for engineering technology, American Association for Airport Executives (AAAE), and the Precision Flight Team, which competes in regional and national flying safety competitions.

AERONAUTICAL TECHNOLOGY

Flight instruction costs are not included in university tuition and fees

AET 100 Primary Flight Course. 0 F, S, SS. Allows student to accrue flight time in preparation for the Private Pilot Certificate. Flight participation required. May be repeated. Prerequisite: AET 182 (equivalent)

182 Private Pilot Ground School. 3 F, S, SS. Ground school preparation for Private Pilot Certificate. Aerodynamics navigation performance and regulations

183 Private Pilot Certificate. 1 F, S, SS. Flight training for the FAA Private Pilot Certificate. Prerequisites: AET 182, passed FAA written; satisfactory completion of FAA tests

184 Ab Initio Theoretical Preparation I. (3) N. Theoretical background material preparation for the pre-soo phase of ab initio flight training

Available to Ab Initio Airline Pilot Flight Management majors only. Prerequisites: MAT 170, PHY 111, 113. Corequisites: AET 185. Prerequisite: PHY 112, 114

185 Ab Initio Airline Pilot Flight Training I. 1 N

Pre-soo introduction to ab initio airne pilot flight training. Requires approximately 17 flight hours with ab initio training provider. Majors only. Lab. Prerequisite: AET 184

200 Interim Flight Course. (0) F, S, SS. Allows students to accrue flight experience in preparation for the Commercial Pilot Certificate. Flight participation required. May be repeated. Prerequisite: AET 182, 183 or instructor approval

201 Air Traffic Control. (3) S. Ground and air operations. Weather services, communications and routing. Flight plans and IFR operations. Departures and arrivals. Airport conditions and emergencies. Prerequisite: AET 182.

220 Aviation Meteorology. (3) F, S. Evaluation, analysis, and interpretation of atmospheric phenomena. Low and high altitude weather from the pilot's viewpoint. Nephology. Prerequisite: AET 182

222 Instrument Pilot Ground School. (3) F. Ground school leading to the FAA Instrument Pilot Rating. 10 hours ground trainer included. Prerequisite: Private Pilot Certificate. Prerequisite: AET 220.

280 Aerospace Structures, Materials, and Systems. (4) F. Basic aerodynamics, aerospace vehicle structures, materials and systems. Inspection requirements and methods. Lecture/lab. Prerequisites: PHY 111, 113

283 Instrument Pilot Rating. (1) F, S, SS. Flight training for FAA Instrument Pilot Rating. Flight participation and satisfactory completion of FAA Instrument Rating required. Prerequisites: AET 222; passed FAA written

287 Aircraft Powerplants. (4) F, S. Theory and performance analysis of gas turbine and reciprocating aircraft engines. Engine accessories, systems, and environmental control. Lecture/lab. Prerequisites: CHM 113 or 114, PHY 112, 114. Prerequisite: MAT 260

300 Aircraft Design I. (3) F, S. Basic applied aerodynamics, proper performance, and airplane performance analysis. Prerequisites: AET 280, 287, ETC 100, MAT 260, PHY 112, 114

304 Ab Initio Theoretical Preparation II. (3) F

The second of a series of six courses providing theoretical background in preparation for ab initio flight training. Available to Ab Initio Airline Pilot Flight Management majors only. Lecture/recitation. Prerequisites: AET 184, 185, junior standing

308 Air Transportation. (3) F. Study of the historical and international development of air transportation and its social, political, and economic impact upon global interrelationships. Prerequisite: junior standing. General Studies: G.

310 Instrumentation. (3) F

Measurement systems components system response and the characteristics of experimental data. Methods of collecting and analyzing data. Lecture lab. Prerequisites ETC 201; MAT 261. Pre or corequisite MET 313

312 Applied Engineering Mechanics: Dynamics. (3) F, S

Masses; motion kinematics dynamics of machinery Prerequisites ETC 211; MAT 261

314 Commercial Pilot Ground School. (3) S

Ground school leading to Commercial Pilot certification 10 hours ground trainer included. Prerequisite Private Pilot Certificate Pre or corequisite: AET 222

320 Applied Aerodynamics and Wind Tunnel Testing. (4) S

Introduction to viscous and inviscid flow and their relationship to a aircraft lift and drag Wind tunnel design and testing. Lecture, lab Prerequisites AET 300 ETC 100 MAT 262

324 Ab Initio Theoretical Preparation III. (3) S

Third of a series of six courses providing theoretical background for *ab initio* flight training Available to *Ab Initio* Airline Pilot Flight Management majors only. Lecture, recitation. Prerequisites: AET 304, junior standing

330 Ab Initio Theoretical Preparation IV. (3) F, S, SS

Fourth in a series of six courses providing theoretical background for *ab initio* flight training Available to *Ab Initio* Airline Pilot Flight Management majors only. Lecture, recitation. Prerequisites: AET 324; junior standing Corequisite: AET 335.

335 Ab Initio Airline Pilot Flight Training II. (2) F, S, SS

Continuation of *ab initio* airline pilot flight training, beginning after first solo flight. Requires approximately 111 flight hours with *ab initio* training provided. Majors only. Lab Prerequisites: AET 184, 185 Corequisite: AET 330

342 Aviation Law/Regulations. (3) F

Study which encompasses the field of aviation within the context of the U.S. Common Law system. Public law administrative rule making sovereignty, enforcement, and case law analysis. Prerequisite: junior standing.

344 Airport Management and Planning. (3) S

Career orientation into administrative and management of modern public airports. to include an overview of planning funding and development of airport facilities Prerequisite: AET 308 or instructor approval

360 Introduction to Helicopter Technology. (3) N

Introduction to the work functions of modern rotary wing aircraft. Rotary wing flight theory aerodynamics controls flight and power requirements Prerequisites: PHY 111, 113; junior standing

362 Ab Initio Theoretical Preparation V. (6) F, S, SS

Fifth in a series of six courses providing theoretical background for *ab initio* flight training Available to *Ab Initio* Airline Pilot Flight Management majors only. Lecture, recitation. Pre

requisites: AET 330 335 senior standing Corequisite: AET 363

363 Ab Initio Airline Pilot Training III. (6) F, S, SS

Intermediate phase of *ab initio* airline pilot flight training Requires approximately 96 flight hours with *ab initio* training provided. Majors only. Lab Prerequisites: AET 330 senior standing Corequisite: AET 362

382 Air Navigation. (3) F

Advanced DR including theory application of modern navigation systems pressure pattern, and grid navigation Prerequisite: AET 222

383 Commercial Pilot Certificate. (2) F, S, SS

Flight training for the FAA Commercial Pilot Certificate satisfactory completion of FAA Commercial Pilot Certificate required to pass the class Prerequisites: AET 222 314, passed FAA written exam 150 hours flight

385 Flight Instructor Ground School. (3) F

Ground school preparation for the FAA Flight Instructor Certificate Prerequisite: corequisite: AET 383

386 Flight Instructor Certificate. (1) F, S, SS

Flight training for FAA Flight Instructor Certificate Certificate required for course completion Prerequisites: AET 385 passed FAA written

387 Multiengine Ground School. (1) F

Ground school preparation for the FAA Multiengine Rating Prerequisite: AET 383 or instructor approval

389 Multiengine Rating. (1) F, S, SS

Flight training for addition of an unrestricted FAA Multiengine Rating to a commercial pilot certificate FAA rating required for course completion. Corequisite: AET 387.

391 Multiengine Instructor Ground School. (2) F, S

Ground school preparation for the FAA Multiengine Flight Instructor Rating Prerequisites: AET 386 387 389

392 Flight Instructor Instrument Ground School. (2) S

Ground School preparation for the FAA Instrument Flight Instructor Rating Prerequisite: AET 386 or instructor approval

393 Flight Instructor Instrument Rating. (1) F, S, SS

Flight training for the FAA CFII. CFII Rating required for course completion Prerequisites: AET 386, 392; passed FAA written

395 Multiengine Land, Airplane Flight Instructor Rating. (1) F, S, SS

Normal and emergency flight operations instruction techniques and procedures associated with flight multiengine and airplane CFII Rating required for course completion. Prerequisites: AET 386, 389

408 National Airspace System. (2) F

Airway facilities Operations and communications air route traffic control centers and flight service stations. Navigation aids airport environment certification and security Prerequisites: AET 201 or 222 344

409 Nondestructive Testing and Quality Assurance. (1) S

Purpose of inspection and quality assurance. Theory and application of nondestructive inspection methods. Application of pertinent standards specifications, and codes. Lecture lab Prerequisite: AET 280 or MET 230.

410 Aviation Safety. (3) F

Aviation accident prevention human factors, life support fire prevention, accident investigation and crash survivability Development and analysis of aviation safety programs. Prerequisite: junior standing; completion of 1 semester of literacy and critical inquiry (L1) requirement

415 Gasdynamics and Propulsion. (3) F

Introduction to compressible flow, internal and external flow, and aerothermodynamic analysis of propulsion systems Prerequisites: ETC 340; MAT 262

417 Aerospace Structures. (3) F

Analysis and design of aircraft and aerospace structures Shear flow. Semimonocoque structures Effects of dynamic loading Prerequisites: AET 300 312, 320; MAT 262; MET 313

462 Ab Initio Theoretical Preparation VI. (6) F, S, SS

Last of a series of six courses providing theoretical background for *ab initio* flight training Available to *Ab Initio* Airline Pilot Flight Management majors only. Lecture, recitation. Prerequisites: AET 362 363 senior standing Corequisite: AET 463.

463 Ab Initio Airline Pilot Flight Training IV. (6) F, S, SS

Completion phase of *ab initio* airline pilot flight training Student must demonstrate mastery of the practical and regulatory background of flight activities and achieve a high level of competence as a pilot. Lab. Prerequisites: AET 362, 363, senior standing Corequisite: AET 462.

484 Aeronautical Internship. (1-3) F, S, SS

Work experience assignment at a airport or with aerospace industry commensurate with student's program. Specific projects guided by industry with university supervision. Prerequisites: advisor approval junior standing

487 Aircraft Design II. (3) S

Basic aerodynamics and airplane performance analysis methods applied to practical design project Prerequisite: AET 300.

489 Airline Administration. (2) S

Administrative organizations economics of airline administration, operational structure, and relationship with federal government agencies Prerequisite: AET 308 or instructor approval

490 Advanced Applied Aerodynamics. (3) S

Study of fluid motion and aerodynamics. Essential aspects of compressible aerodynamics and computational fluid dynamics. Elements of laminar and turbulent flows. Lecture lab. Prerequisites: AET 312, ETC 100 MAT 262

Department of Electronics and Computer Technology

Robert W. Nowlin
Program Coordinator
(ASU East) 602/965-3137
Fax 602/965-0723

PROFESSORS

MAISEL, McHENRY, MUNUKUTLA

ASSOCIATE PROFESSORS

FORDEMWALT, McBRIEN,
NOWL N, WOOD

ASSISTANT PROFESSORS

LIPARI, MACIA, PETERSON ZENG

PROFESSORS EMERITI

BAXTER, EDWARDS, STRAWN

Purpose. Electronics engineering technology is a technological field of specialization that requires the application of scientific and engineering knowledge and methods combined with technical skills in support of electrical/electronics engineering activities. It lies in the occupational spectrum between the craftsman and the engineer at the end of the spectrum closest to the engineer. The electronics engineering technologist is a member of the electronics engineering team that consists of electronics engineers, electronics engineering technologists, and electronics engineering technicians.

The electronics engineering technologist is applications oriented, and builds upon a background of applied science and mathematics including the concepts and applications of calculus. Using state of the art technology, the electronics engineering technologist is able to produce practical, workable, and safe results quickly and economically, to install and operate technical systems, to configure hardware for unique applications, to develop and produce products, to service machines and systems, to manage manufacturing processes, and to provide customer support to technical products and systems

Degrees. The Department of Electronics and Computer Technology offers the Bachelor of Science degree in Electronics Engineering Technology (B.S./EET). Four options are available: computer systems, electronic systems, microelectronics, and telecommunications.

The *computer systems* option combines applied electronics and computer hardware-software concepts and applications. It has been formulated to meet the needs of persons who wish to engage in digital and computer systems applications as a career focus.

The *electronic systems* option is aimed at preparing persons for careers in instrumentation, control, and power systems applications. This option allows a student to develop a broad-based knowledge of electrical/electronic fundamentals with an applications perspective. The Department of Electronics and Computer Technology has had a concentration in electronic systems or instrumentation and systems control for many years. The course patterns in support of these emphasis areas have been well developed and continue to provide strong support for the electronic systems option under the B.S./EET program.

The *microelectronics* (UET) option combines applied electronics, monolithic and hybrid integrated circuit processing and applications, device and component fabrication, and manufacturing. The objective of this option is to prepare persons to assume positions in the area of microelectronics manufacturing with immediately applicable knowledge as well as to develop a strong foundation of electronic fundamentals and methods. Students should be interested in the design, fabrication, and manufacture of imprinted circuitry, monolithic integrated circuits (bipolar and MOS), and hybrid thick film and thin film circuitry, components, and systems. The continuing explosion in semiconductor and related technologies and their applications to electronic and computer-related products offers unique and challenging opportunities. Graduates of this program option secure positions in processing, manufacturing, operations, and applications areas in industry as members of the diverse scientific engineering team.

The *telecommunications* option has been structured to take advantage of the recent changes in the telecommunications industry. The program encompasses the fundamentals of information and signal processing, modern bandwidth efficient digital radio analysis with RF and microwave circuits and systems. Applications include telephone pulse code modulation, cable TV, fiber optic links, and satellite transmission circuits and systems.

A Master of Technology degree program with a concentration in electronics engineering technology is available for qualified B.S. graduates. The undergraduate program options are supported as emphasis areas in the master's degree program. See the *Graduate Catalog* for more information.

ELECTRONICS ENGINEERING TECHNOLOGY—B.S.

The departmental curriculum is organized into two categories, technical studies and General Studies. Technical studies consist of core areas and the option specialty area. General Studies consist of courses selected to meet the university General Studies requirement as well as the math/science requirement of TAC/ABET. A minimum of 50 upper division hours is required, including at least 24 semester hours of EET, CET, or UET upper division hours to be taken at ASU. Complete program of study guides with typical four year patterns are available from the department.

The General Studies portion of the B.S./EET curriculum has been carefully structured to meet the specific requirements of the university and to include the content required by TAC/ABET, the professional accrediting agency for such curricula.

DEGREE REQUIREMENTS

In addition to the courses listed for First Year Composition and General Studies, the following courses are required.

Engineering Technology Core

The following courses are required as part of the engineering technology core:

CHM	113	General Chemistry <i>S1/S2</i>	4
EET	208	Electronic Circuits	3
ETC	211	Applied Engineering Mechanics Statics	3
ETC	340	Applied Thermodynamics and Heat Transfer	3
MAT	260	Technical Calculus <i>1N1</i>	3
MAT	261	Technical Calculus II	3
Total		.....	19

Electronics Engineering Technology Core Requirements

CET	150	Digital Systems and Microprocessors <i>N3</i>	3
CET	350	Digital Logic Principles	4
CET	354	Microcomputer Principles	4
CSE	294	C++ Programming	3

EET 301	Electric Networks	3
EET 310	Electronic Circuits	4
EET 372	Communication Systems	4
EET 394	Electronic Circuits II	3
EET 396	Professional Orientation*	1
EET 407	Electrical Power Systems	4
UET 331	Semiconductor Materials Science/Devices.	3
UET 415	Electronic Manufacturing Engineering Principles	3
Total.....		39

* Students must take EET 396 the semester in which they are enrolled in the 87th hour of credit (ASU plus transfer hours). If this occurs in summer session, students should take EET 396 the prior spring semester.

Electronics Engineering Technology Options

Computer Systems

CET 452	Digital Logic Applications	4
CET 456	Assembly Language Applications	3
CET 457	Microcomputer Systems Interfacing	4
CET 473	Digital/Data Communications	4
CET 483	UNIX Utilities Using C Language	3
Approved technical electives		7

Electronic Systems

CET 483	UNIX Utilities Using C Language	3
EET 406	Control System Technology	4
EET 430	Instrumentation Systems	4
EET 460	Power Electronics	4
Approved technical electives		10

Microelectronics

CHM 116	General Chemistry <i>SI/S2</i>	4
UET 416	Monolithic Integrated Circuit Devices	3
UET 417	Monolithic Integrated Circuit Laboratory	2
UET 418	Hybrid Integrated Circuit Technology	4
UET 432	Semiconductor Packaging and Heat Transfer	3
Approved technical electives...		9

Telecommunications Systems

CET 473	Digital/Data Communications	4
EET 304	Transmission Lines and Waveguides	4
EET 401	Digital Filters and Applications... ..	3
EET 470	Communication Circuits	4
Approved technical electives.....		10

Electronics Engineering Technology Program of Study Typical First- and Second-Year Sequence Freshman Year

First Semester

CET 150	Digital Systems and Microprocessors <i>N3</i>	3
ENG 101	First Year Composition	3
MAT 170	Precalculus <i>NI</i>	3
PHY 111	General Physics <i>SI/S2</i> ¹	3
PHY 113	General Physics Lab <i>S2/S2</i> ¹	1
HU, SB, and awareness area courses		3
Total		16

Second Semester

EET 208	Electric Circuits	3
ENG 102	First Year Composition	3
ETC 100	Languages of Technology	4
MAT 260	Technical Calculus <i>INI</i>	3
PHY 112	General Physics <i>SI/S2</i> ²	3
PHY 114	General Physics Laboratory <i>SI/S2</i> ²	1
Total.....		17

Sophomore Year

First Semester

CHM 113	General Chemistry <i>SI/S2</i>	4
CSE 294	C++ Programming	3
ECN 111	Macroeconomic Principles <i>SB</i>	3
MAT 261	Technical Calculus II.....	3
HU, SB, and awareness area courses		3
Total		16

Second Semester

ITC 200	Impact of Communications Technology on Society <i>LI</i>	3
EET 301	Electric Networks	3
ETC 211	Applied Engineering Mechanics: Statics	3
MAT 262	Technical Calculus III	3
HU, SB, and awareness area courses		3
Total.....		15

¹ Both PHY 111 and 113 must be taken to secure S1 or S2 credit
² Both PHY 112 and 114 must be taken to secure S1 or S2 credit

STUDENT ORGANIZATIONS

The department hosts one of the local chapters of the Institute of Electrical and Electronics Engineers (IEEE), the International Society for Hybrid Microelectronics (ISHM), and the Instrument Society of America (ISA). Students may also be elected to membership in Tau Alpha Pi, the national honor society for engineering technology.

ELECTRONICS ENGINEERING TECHNOLOGY

EET 205 Electronic Devices and Circuits. (4) F, S
Active device characteristics, models, and basic circuit analysis. Lecture, lab. Prerequisite: ETC 201

208 Electrical Circuits. (3) F, S
Graphical and analytical solutions of electronic circuits, transients and sinusoidal excitation. Applications of circuit theorems and computer solutions. Pre or corequisite: MAT 261.

301 Electric Networks. (3) F, S
Analysis of electronic networks: transients steady state sinusoidal frequency response, and transfer function using Laplace transforms and Fourier Series. Prerequisite: EET 208 Pre or corequisite: MAT 262.

304 Transmission Lines and Waveguides. (4) S
Theory and application of transmission lines, waveguide, antennas, microwave components, and impedance matching techniques. Lecture, lab Prerequisite: EET 301.

310 Electronic Circuits I. (4) F, S
Multistage amplifier analysis and design using models and computer simulation. Lecture, lab Prerequisites: EET 208.

372 Communication Systems. (4) F, S
Systems analysis and design of AM, FM, PCM, and SSB communication systems. Noise and distortion on performance of communication systems. Lecture lab Pre and corequisites: EET 301 310.

396 Professional Orientation. (1) F, S
Technical professional economic and ethical aspects of electronics/computer engineering technology practice and industrial organization. Lecture, projects Prerequisite: junior standing

401 Digital Filters and Applications. (3) S
Analysis and design of digital filters. Time frequency and Z-transform techniques and waveform analysis Computer applications Prerequisites: EET 301; MAT 262.

406 Control System Technology. (4) S
Control system components analysis of feedback control systems, stability, performance, and application. Lecture, lab, computer simulations Prerequisites: EET 301; MAT 262

407 Electrical Power Systems. (4) F
Electrical power systems analysis, generation transmission, distribution, and utilization, including system protection. Lecture lab Prerequisite: EET 208.

410 Linear Filters and Applications. (3) A
Frequency response and feedback design of multistage electronic circuits. Active and passive filter design. Computer analysis Prerequisites: EET 301 310.

420 Operational Amplifier Theory and Application. (4) A
Differential and operational amplifiers feedback configurations, op amp errors and compensation and linear and nonlinear applications. Lecture, lab. Prerequisites: EET 301, 310

NOTE For the General Studies requirement, codes (such as L1, N3, C, and H), and courses, see pages 71-94. For graduation requirements see pages 66-70. Omnibus courses are offered that are not listed in the catalog; see pages 44-45.

422 Electronic Switching Circuits. (4) A
Analysis and design of electronic circuits operating in a switching mode. Waveshaping, timing, and logic. Computer simulation. Lecture, lab. Prerequisites: CET 350; EET 301, 310.

430 Instrumentation Systems. (4) F
Measurement principles and instrumentation, techniques. Signal and error analysis. Lecture, lab. Prerequisites: EET 301, 310.

440 Electrical Power Systems Technology. (4) S

Principles and analysis of rotating machines, transformers, and related control equipment. Lecture, lab. Prerequisite: EET 307.

460 Power Electronics. (4) S
Analysis of circuits for control and conversion of electrical power and energy. Lecture, lab. Prerequisites: EET 301, 307, 310.

470 Communication Circuits. (4) S
Analysis and design of passive and active communication circuits. Coupling networks, filters, and impedance matching. Modulation and demodulation techniques. Computer solutions. Lecture, lab. Prerequisites: EET 372; MAT 262.

478 Digital Communication Systems. (3) S
Theory, design, and application of digital, data, and fiber optics communication systems. Prerequisites: EET 304, 372; MAT 262.

482 Industrial Practice: Internship/Coop.

(1-4) F, S, SS
Specially assigned or approved activities in electronic industries or institutions. Report required. Maximum of 10 credits. Prerequisite: majors only enrolled at junior-senior level.

490 Electronics Project. (1-4) F, S, SS
Individual or small group projects in applied electronics, with emphasis on laboratory practice or hardware solutions to practical problems. Prerequisite: instructor approval.

501 Digital Signal Processing and Applications I. (3) F
Applications of discrete-time signals and systems, design of IIR and FIR filters using computer aided design techniques. Prerequisites: EET 401 or instructor approval; MAT 262.

502 Digital Signal Processing and Applications II. (3) S
Application of FFT, fundamentals of probability theory and random processes, and quantization effects in digital filters. Prerequisite: EET 501.

506 System Dynamics and Control. (3) S
Time, frequency, and transform domain analysis of physical systems. Transfer function analysis of feedback control systems performance and stability. Compensation. Prerequisites: EET 301, 501 (or MAT 262).

508 Digital Real-Time Control. (3) A
Sample data control techniques and applications to process control. Prerequisites: CET 354; EET 406.

510 Linear Integrated Circuits and Applications. (3) F
Analysis, design, and applications of linear integrated circuits and systems. Prerequisites: CET 350; EET 301, 310.

522 Digital Integrated Circuits and Applications. (3) S
Analysis, design, and applications of integrated circuits and systems. Prerequisites: CET 350; EET 301, 310.

530 Electronic Test Systems and Applications. (3) F
Analysis, design, and application of electronic test equipment, test systems, specifications, and documentation. Prerequisites: CET 354; EET 301, 310.

540 Electrical Power Systems. (3) S
Electrical power system analysis, transmission, distribution, instrumentation, protection, and related system components. Prerequisites: EET 301, 307.

560 Industrial Electronics and Applications. (3) A
Analysis, design, and application of special electronic devices and systems to industrial control, power, communications, and processes. Prerequisites: CET 350; EET 301, 307, 310.

574 Microwave Amplifier-Circuits Design. (3) F
Analysis and design of microwave amplifier-circuits using s-parameter theory and computer aided design. Prerequisites: EET 304, 470.

576 Modern Telecommunication Systems. (3) F
Applied design and integration of microwave and satellite communication systems. Prerequisites: CET 473; MAT 262; or instructor approval.

578 Digital Filter Hardware Design. (3) S
Hardware design of FIR and IIR filters, including adaptive filters, based on DSP chips. Develop new applications using DSP microprocessor systems. Prerequisites: EET 401; CET 354.

COMPUTER ENGINEERING TECHNOLOGY

CET 150 Digital Systems and Microprocessors. (3) F, S
Fundamentals of digital systems and microprocessors, with Boolean Algebra and combinatorial logic. Microprocessor programming and applications. Lecture, lab. Prerequisite: freshman standing. *General Studies: N3.*

350 Digital Logic Principles. (4) F, S
Combinational and sequential logic analysis, design concepts, and applications. Lecture, lab. Prerequisite: CET 150.

354 Microprocessor Principles. (4) F, S
Microprocessor organization, programming, and interfacing. Prerequisite: CET 150.

452 Digital Logic Applications. (4) S
Design of sequential machines using system design techniques and complex MSI/LSI devices with lab. Prerequisite: CET 350.

456 Assembly Language Applications. (3) F
Programming using BIOS and DOS routines. High level language interfacing. Disk operations, TSR routines, and device drivers. Prerequisite: CET 354.

457 Microcomputer Systems Interfacing. (4) S
Applications of microcomputer hardware and software. Special purpose controllers, interface design. Lecture, lab. Prerequisites: CET 354; CSE 183; EET 310.

458 Digital Computer Networks. (3) A
Network technology, topologies, protocols, control techniques, reliability and security. Prerequisite: CET 354.

473 Digital/Data Communications. (4) F, S
Signals, distortion, noise, and error detection/correction. Transmission and systems design. Interface techniques and standards. Lecture, lab. Prerequisites: CET 354; EET 372.

483 UNIX Utilities Using C Language. (3) S
Applications of C language to the development of practical programs for the UNIX operating system. Prerequisite: senior standing in technology or equivalent.

485 Digital Testing Techniques I. (3) A
Hardware/software aspects of digital testing technology: systems, board, and logic testing and equipment. Lecture, lab. Cross-listed as UET 485. Prerequisites: CET 350; EET 310.

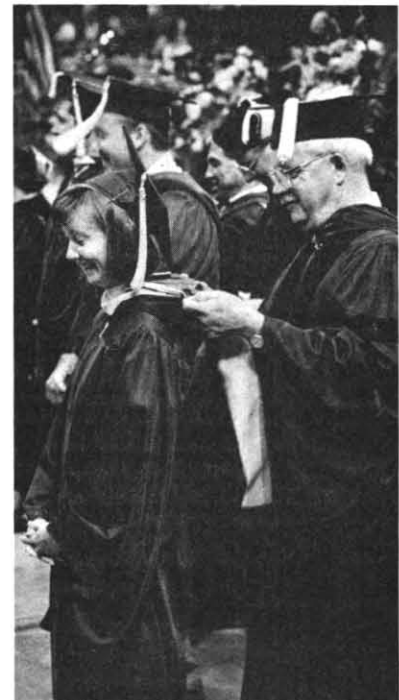
486 Electronics Computer Aided Design. (3) F
CAD/EHDL for digital logic simulations and electronic circuit designs. Various software packages will be used. Prerequisites: CET 350; EET 310.

552 Digital Systems Design. (3) S
Digital system design techniques and applications. Prerequisite: CET 452 or instructor approval.

556 Computer Software Technology. (3) A
Assembly language programming techniques and operations, operating system characteristics, and systems software applications. Prerequisite: CET 456.

557 Microcomputers and Applications. (3) F
Applications of small computer systems, mini- and microcomputer hardware and software. Prerequisites: CET 354; CSE 100 or 183; EET 310.

583 UNIX Utilities Using C Language II. (3) S
C language applications using the UNIX operating system. Also Fourth Generation languages and other UNIX utilities. Prerequisite: graduate standing in technology.



585 Digital Testing Techniques II. (3) F
Testing technology as applied to digital systems boards, and chips. Lecture, lab Prerequisite: CET 354.

586 Digital Modeling Techniques. (3) S
Digital system modeling and simulation using hardware description languages Prerequisites: CET 350, 354

**MICROELECTRONICS
ENGINEERING TECHNOLOGY**

UET 331 Electronic Materials. (3) F, S
Physical, chemical, electromagnetic, and mechanical properties of electronic materials. Solid state device characteristics and their material properties Prerequisites: CHM 113, EET 205; PHY 112, 114.

415 Electronic Manufacturing Engineering Principles. (3) F, S
Electronic equipment design and fabrication principles and practice. Comparison of electronics hardware design project and report Lecture, lab. With lab fee. Prerequisite: EET senior standing (113 hours)

416 Monolithic Integrated Circuit Devices. (3) F
Physics and electronics of bipolar and MOS devices used in integrated circuits. Prerequisite: UET 331. Corequisite: UET 417.

417 Monolithic Integrated Circuit Laboratory. (2) F
Laboratory practice in the fabrication of integrated circuits Lab Prerequisite: UET 331. Corequisite: UET 416

418 Hybrid Integrated Circuit Technology. (4) S
Layout fabrication design, and manufacture of thin and thick film hybrid circuits Lecture lab. Prerequisites: EET 310; UET 331.

432 Semiconductor Packaging and Heat Transfer. (3) S
Packaging theory and techniques, hermetic and plastic assembly; thermal management; electrical characteristics and reliability. Prerequisite sites: ETC 340, UET 331; or equivalent.

437 Integrated Circuit Testing. (3) S
Principles techniques and strategies employed at wafer level and final product testing, both destructive and nondestructive. Prerequisite: UET 416.

513 Microelectronics Technology. (3) S
Special processes, techniques, and advances in monolithic and hybrid technology Emphasis on manufacturing practice and product application for LSI and VLSI. Seminar Prerequisite: UET 416.

516 IC Processing Technology and Integration. (3) F
Monolithic IC process integration and fabrication on technology. Lecture, lab Prerequisite: UET 416

518 Hybrid IC Technology and Applications. (3) S
Theory, processing fabrication, and manufacturing of hybrid microelectronics devices and products. Applications. Prerequisite: UET 331 or equivalent or instructor approval

**Department of
Manufacturing and
Industrial Technology**

Tom Schildgen
*Program Coordinator, Industrial
Technology*
(ASU East) 602/965-3781

Dale Palmgren
*Program Coordinator, Manufacturing
Technology*
(ASU East) 602/965-6584

PROFESSORS

COLLINS HILD,
HOROWITZ, SCHILDGEN

ASSOCIATE PROFESSORS

BARCHILON, DAHL, GROSSMAN,
HIRATA, HUMBLE, KELLEY, MATSON,
OLSON, PALMGREN, SCHMIDT

ASSISTANT PROFESSOR

ROGERS

LECTURERS

BIEKERT, OKONKWO

PROFESSORS EMERITI

AUTORE, BROWN, BURDETTE,
BURK, CAVALLERE, KEITH KIGIN,
KISIELEWSKI, LAWLER, MINTER,
PARDINI, PRUST, ROE, ROOK,
SHELLER, STADMILLER,
WATKINS, WILCOX

Purpose. Technology is the application of science, systematic methods, techniques, procedures, machines, materials, and devices for the development, improvement, and implementation of state-of-the-art solutions to industrial problems. Increased complexity and sophistication have created great demand for those individuals who possess a working knowledge of the technical phases of planning, testing, production, and fabrication of consumer and industrial products and equipment. Emphasis is placed on health and safety within the workplace.

The mission of the department is to prepare graduates who are able to develop and communicate technological solutions to industrial problems, to perform management functions in systems operations, to improve and evaluate products, to provide customer support,

and to facilitate technology transfer in industry and government.

Majors and Emphases. To accomplish the mission, the department offers two majors leading to the Bachelor of Science degree, Industrial Technology and Manufacturing Engineering Technology. Three emphasis areas are available under the Industrial Technology major, which is accredited by the North Central Association of Colleges and Secondary Schools (NCACSS): graphic communications, industrial management, and interactive computer graphics. Five emphasis areas are available under the Manufacturing Engineering Technology (MET) major, which is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology: computer integrated manufacturing engineering technology, manufacturing engineering technology, mechanical engineering technology, robotic and automation engineering technology, and welding engineering technology

The department fosters research in disciplines of technology to support its educational programs, offers courses in support of the general education requirements of the university, and offers Master of Technology degree programs.

DEGREE REQUIREMENTS

**Manufacturing Engineering
Technology—B.S.**

Engineering technology core	14
General Studies/Department Requirements	45
Manufacturing Engineering Technology major	51
Selected emphasis area	12
First Year Composition	6
Total	128

The following courses constitute the Manufacturing Engineering Technology major and are required of all Manufacturing Engineering Technology students. Refer to the specific emphasis areas below for additional requirements.

**Manufacturing Engineering
Technology Major**

EET 406 Control System Technology ..	4
MET 231 Manufacturing Processes	3

NOTE: For the General Studies requirement, codes (such as L1, N3, C, and H), and courses, see pages 71-94. For graduation requirements, see pages 66-70. Omnibus courses are offered that are not listed in the catalog, see pages 44-45.

MET 300	Applied Material Science	4
MET 302	Welding Survey	3
MET 313	Applied Engineering Mechanics Materials	4
MET 331	Design for Manufacturing I	3
MET 341	Manufacturing Analysis	3
MET 344	Casting and Forming Processes	3
MET 345	Advanced Manufacturing Processes	3
MET 346	Numerical Control Point to Point and Continuous Path Programming	3
MET 401	Statistical Process Control	3
MET 416	Applied Computer Integrated Manufacturing	3
MET 444	Production Tooling	3
MET 451	Introduction to Robotics	3
MET 460	Manufacturing Capstone Project I	3
MET 461	Manufacturing Capstone Project II	3
Total		51

Computer-Integrated Manufacturing Engineering Technology. Computer integrated manufacturing (CIM) has proved to be a powerful tool for increasing productivity in manufacturing. This impact will be greater in the future as the full potential of computers is integrated into the manufacturing factory. Computer integrated manufacturing engineering technology is concerned with the coordination of computer information and computer implementation in manufacturing.

Required courses: MET 448 Expert Systems in Manufacturing (3), MET 452 Implementation of Robots in Manufacturing (3), and six hours approved technical electives.

Manufacturing Engineering Technology. This emphasis area is designed to prepare technologists with both conceptual and practical applications of processes, materials, and products related to metalworking industries. Accordingly, this concentration is intended to prepare students to meet the responsibilities in planning the processes of production, developing the tools and machines, and integrating the facilities of production or manufacturing.

Another area within manufacturing engineering technology prepares the student for the implementation of design and manufacturing strategies that favorably impact the environment prior to manufacturing and during manufacturing. Students will be able to address design, materials, and manufacturing problems with a focus on the environment. Concepts like design for

recyclability, manufacturing fluids, and air quality control during manufacturing will be addressed.

Required courses: MET 442 Specialized Production Processes (3) and nine hours approved technical electives.

Mechanical Engineering Technology. The primary objective of the mechanical engineering technology emphasis area is to prepare the student for entry level work in mechanical design and testing either in engineering or manufacturing departments in product oriented industries. Major emphasis is placed on reducing the amount of time required by industry to make the graduate productive in any area of work. The student obtains a well rounded academic background with an emphasis in mechanics and thermal sciences.

Required courses: AET 415 Gas Dynamics and Propulsion (3), MET 434 Applied Fluid Mechanics (3), MET 438 Design for Manufacturing II (4), and two hours of approved technical electives.

Robotic and Automation Engineering Technology. The challenges to improve productivity, product quality, and reliability and to reduce costs must be addressed by integrating robots and automation in manufacturing. This emphasis area addresses the field of automating manufacturing processes.

Required courses: MET 448 Expert Systems in Manufacturing (3), MET 453 Safety Management (3); six hours approved technical electives.

Welding Engineering Technology. This emphasis area is designed primarily to prepare individuals for technical positions in industries utilizing welding and related processes. The focus is on the application of welding technology as applied to current and near future industrial needs. The program is structured to provide the individual with a balance of theory, application, and hands on experience. The general areas covered by the courses are welding processes, materials, nondestructive testing, and weldment design. The student also has the opportunity to work with robots in robotic welding applications. Also, a laser is available for investigating the area of high energy welding processes.

Graduates of this program have the capability to function in a variety of technical positions related to welding and manufacturing. Typically, a gradu-

ate from this program may work in the areas of robotic welding, metallurgy, quality control, nondestructive evaluation, welding process evaluation, and technical sales.

Graduates may find employment in the aerospace, automotive, heavy machinery, heavy fabrication, and energy production industries.

Required courses: MET 321 Engineering Evaluation of Welding Processes (3), MET 420 Welding Metallurgy I (4), MET 421 Welding Metallurgy II (3); two hours of approved technical electives.

Industrial Technology—B.S.

The curriculum consists of General Studies and technical courses. The technical part of the curriculum includes a required core by all Industrial Technology majors and an emphasis area. The technical emphasis part of the curriculum specifies the required courses for each emphasis area and electives selected with approval of an advisor. Three emphasis areas are available: graphic communications, industrial management, and interactive computer graphics. The following is a summary of degree requirements:

First Year Composition requirement	.....	6
General Studies/Department Requirements	.....	39
Industrial Technology core	.....	19
Industrial Technology major emphasis	....	64
Total	.....	128

The following courses constitute the Industrial Technology Core and are required of all Industrial Technology students. Refer to the specific emphasis areas for additional requirements.

Industrial Technology Core

ETC 100	Languages of Technology	.....	4
GRC 294	Desktop Publishing and Information Graphics		3
GRC 331	Quality Assurance for the Reproduction Processes	..	3
GRC 337	Production Management	.....	3
IST 346	Management Dynamics	.....	3
IST 494	ST: Project Management	.....	3
Total	.....	.....	19

Graphic Communications (GRC).

The purpose of the graphic communications emphasis is to prepare people for a wide variety of professional positions in the printing and graphic communications industry. This area of emphasis offers a blend of technological and managerial skills and knowledge.

It has been specifically designed to prepare graduates to address the opportunities and increased competitive challenges taking place in the industry as a result of technological change and turbulent economic and human relations concerns.

All courses are industry responsive. The students are exposed to case histories and problems related to actual industry issues. Throughout the entire four year curriculum, students are exposed to practical, situational analysis and effective problem solving techniques. As a prerequisite for graduation, students are expected to acquire job related industry experience as practical preparation for making an immediate contribution to an employer's business.

The graphic communications curriculum is an integral part of the future trends in computer graphics, imaging, and technical communications. To achieve its objectives, the graphic communications emphasis area requires 27 semester hours of related courses and 37 semester hours of technical GRC elective courses to be determined by advising.

Typical career paths may include operations management, sales and marketing, and technology described below:

Operations Management. Computer graphics applications; conformance requirements for government regulation; decision making in a manufacturing environment; industrial cost accounting, instrumentation for graphic arts manufacturing, manufacturing strategy; materials testing and performance prediction; optimization of production systems; organizations and layout; planning and scheduling for manufacturing, plant design, plant information systems; printing systems maintenance; product development and management; production management; production coordination; supervisory techniques, traffic management.

Sales/Marketing. Customer education; estimating and job costing; finance, personnel and human relations; markets for printing; print and electronic media, sales management; sales service; strategic planning; market planning.

Technology. Analytical modeling for manufacturing systems; applied elec-

tronics for the graphic communications industry creation, management and transmission of digital imaging information, environmental control, evaluation of new technologies, integrated computer graphics; printing plant engineering; quality management and process control, scientific properties of graphic communications materials, technological planning and forecasting.

Industrial Management. The purpose of this emphasis is to prepare supervisors and high level personnel for management functions in industry, manufacturing, and public service organizations.

The industrial management emphasis area courses are articulated with the Maricopa Community College District, Pima Community College, and Yavapai College. Consultation with an advisor is required to coordinate the course selection for transfer to the industrial management areas of emphasis.

To achieve its objectives, the industrial management emphasis area requires 31 semester hours of related courses and 33 semester hours of technical IST elective courses to be determined by advising.

Technical electives to support the area of emphasis must be chosen by the student in consultation with an advisor. Typical areas for technical electives are aeronautics, construction electronics, fire science, graphic communications, hazardous materials and waste management, interactive computer graphics, safety and health, technology, and manufacturing. Articulation agreements are to be followed by consulting an advisor.

Interactive Computer Graphics. The purpose of the interactive computer graphics (ICG) emphasis is to prepare students for entry into the diverse field of computer graphics. The ICG emphasis provides a strong academic foundation in the technological, managerial, and discipline specific applications of graphics analysis, communication, databases, design, documentation, image generation, modeling, programming, visualization, and multimedia.

Graduates are qualified computer graphics technologists who have acquired extensive knowledge and technical competency, thereby preparing

them to advance into professional positions of leadership within the industry. The ICG courses are industry responsive and provide a high level of technical applicability in the use of computer graphics systems, hardware, and software within a variety of discipline environments.

Typical career paths may include: applications development, applications management and supervision; business and analytical graphics; design (specialty areas such as electronics, advertising/graphics design, mechanical, manufacturing, multimedia, animation, rendering and illustration, and computer-aided design and drafting); field engineering, service and support; graphics systems and database analysis; sales and marketing; technical graphics and publication; testing, and implementation; training (administration and instruction).

The interactive computer graphics curriculum is an integral part of future trends in computer graphics, imaging, and technical communications. To achieve its objectives, the interactive computer graphics emphasis area requires 27 semester hours of related courses and 37 semester hours of technical ICG elective courses to be determined by advising.

Technical electives to support the emphasis area must be chosen by the student in consultation with an advisor.

Certificate Program in Hazardous Materials and Waste Management.

The Certificate Program in Hazardous Materials and Waste Management is designed to provide current and prospective employees of industry and government with a comprehensive and practical curriculum of study in hazardous materials management. The certificate program features instruction by ASU faculty, attorneys and professionals who work in the specific area in which they teach. The program is offered through the Department of Manufacturing and Industrial Technology.

Participation in the certificate program is available in three options: a certificate program for noncredit, and undergraduate degree in Industrial Management with a Certificate in Hazardous Materials and Waste Management, and a Master of Technology degree in Industrial Management and

Supervision with a Certificate in Hazardous Materials and Waste Management. Candidates for option one should call 602/965 3781 to request a registration form. Candidates for options 2 and 3 should apply for admission through the Office of Undergraduate Admissions or the Graduate College respectively.

Students must complete seven selected courses (five required and two electives) and earn a grade of "C" or better to receive the certificate. Except for the introductory course, IST 501 Principles of Hazardous Materials and Waste Management, the remainder of the courses may be taken in any sequence.

Details of this program and the registration form are available from the Department of Manufacturing and Industrial Technology, 602/965 3781.

INDUSTRIAL TECHNOLOGY

ITC 200 Impact of Communications Technology on Society. (3) F, S
Organizational issues and development of technical communication. Activities include research evaluations, and presentation of oral arguments in support of positions. Prerequisite: ENG 102 or 105 or 108 *General Studies L1*

202 Creative Thinking and Design. (3) F, S
Fundamental methods, concepts, and techniques of creative thinking design and problem solving. Also includes communication management, cultural, and social influences. Lecture/lab. Prerequisite: ECE 106 or instructor approval.

343 Occupational Safety. (3) F
Accident prevention, accident factors methods of recording and reporting, analysis, psychological aspects attitudes, recent legislation safety consciousness and liability. Prerequisite: junior or status.

444 Industrial Organization. (3) S
Industrial organization concepts. Topics relate to industrial relations, governmental regulations organizational structure labor relations, human factors, and current industrial practices. Field trips. Prerequisite: junior or status.

GRAPHIC COMMUNICATIONS

GRC 135 Graphic Communications. (3) F, S
Introduction to the technologies involved in the design image generation transmission and production of multiple images for consumer utilization. Lecture/lab, field trips.

237 Introduction to Composition Systems. (3) F
An introduction to traditional and electronic composition systems and procedures used in the graphics communication industry including desktop publishing. Lecture/lab.

331 Quality Assurance for the Reproduction Processes. (3) S
Instrumentation and methodologies for materials testing and quality control in the major reproduction processes. Field trips.

332 Film Assembly and Platemaking. (3) F
Stripping negatives and positives line, half-tone duo-tone, and full color, contact negatives onto various types of image carriers. Lecture/lab, field trips. Prerequisite: GRC 135.

333 Sheetweb Press Technology. (3) S
Function of the offset printing equipment. Lithographic dynamics of both sheetfed and sheetweb systems. Lecture/lab. Prerequisite: GRC 332 or instructor approval.

334 Image Conversion. (3) F
Theory and production of line work, halftones contact work, and special effects for the graphic arts industry. Lecture/lab.

335 Printing and Finishing Techniques. (3) S
Analysis of major printing processes of flexography screen process, and reproduction bindery and finishing procedures. Prerequisite: GRC 135.

336 Color Separation. (3) S
Methods of producing separation negatives and positives. Prerequisite: GRC 334.

337 Production Management. (3) F
Planning and controlling work flow of manufacturing processes. Prerequisite: ITC 200.

339 Estimating and Cost Analysis. (3) S
Management relationship between financial production and sales departments in printing industries; analysis of equipment, labor, and material costs; use of paper and standard pricing catalogs. Prerequisite: GRC 135.

433 Production Techniques. (3) N
Systematic product planning experience. Lecture/lab. Prerequisites: GRC 333 334.

435 Plant Management. (3) F
Concepts, practices, and processes used by the commercial printing plant manager relating to the operation of the plant. Prerequisite: GRC 135 or instructor approval.

436 Gravure Technology. (3) S
In-depth study of the market profile and product on sequences related to the gravure method of printing. Prerequisite: GRC 336.

437 Advanced Color Reproduction. (3) F
Scientific analysis for the engineering of color reproduction systems used in the graphic arts industry. Field trips. Prerequisite: GRC 336.

438 Graphic Arts Techniques and Processes. (3) F, S, SS
Survey of production sequences and profile of the printing and publishing industry. Lecture/lab. Prerequisite: junior standing.

439 Electronic Publishing Systems. (3) S
The study of electronic publishing systems and how text and graphics are integrated into a publication using desktop publishing technologies.

537 Current Issues in Quality Assurance. (3) N
Directed group study of selected issues relating to quality assurance in the printing and publishing industry.

INDUSTRIAL MANAGEMENT

IST 346 Management Dynamics. (3) S
Management challenges and the leadership skills needed to achieve organizational objectives in the changing industrial and technical environments.

402 Industrial Laws, Contracts, and Regulations. (3) F

Review of city state county and federal laws that affect industrial and construction operations materials supplies and acquisition procedures.

430 Ethical Issues in Technology. (3) N
Topics in social responsibility for industrial technology and engineering.

445 Industrial Internship. (1-10) F, S, SS
Work experience assignment in industry commensurate with student's program. Specialized instruction by industry with university supervision. Prerequisites: advisor approval, junior status, 2.50 GPA.

451 Materials Control. (3) N
Activities of material handling including purchasing receiving, warehousing, traffic plan layout, inventory, and production control and shipping related to technical procedures.

452 Industrial Human Resource Management. (3) F, S
Concepts and practices of human resource management in a global industrial environment.

453 Safety Management. (3) N
Development and management of safety programs, education and training, and relationship with an organization. Prerequisite: TC 343 or instructor approval.

454 Occupational Hygiene. (3) S
Offers an overview of occupational health hazards, their recognition evaluation, and control. Discusses how industries are regulated and how occupational health standards are promulgated. Prerequisites: CHM 101 or 113 or 114 MAT 170.

455 Industrial Sales and Demand. (3) N
Customer and sales strategies for industrial organizations including current practice and future planning. Prerequisites: ECN 111 advisor and instructor approval, junior or standing.

461 Production Supervision Principles. (3) F
Introduction to supervisory principles as applied to production of goods and services. Prerequisite: ITC 444.

480 Organizational Effectiveness. (3) F, S
Human aspects of supervisory behavior in the industrial setting and how they influence efficiency morale, and organizational practice. Prerequisite: IST 346.

491 Introduction to Labor Concerns. (3) S
Introduction to labor relations, organization of labor unions and federations, collective bargaining, grievances and arbitration and applicable labor legislation.

501 Principles of Hazardous Materials and Waste Management. (3) F
Foundation for courses in curriculum. Topics include definitions of toxic and hazardous substances and wastes RCRA classification, and OSHA criteria. Pre- or corequisites: CHM 113 and 115; MAT 170.

502 Regulatory Framework for Toxic and Hazardous Substances. (3) F
Provides an in-depth examination of federal state, and local regulations and requirements for hazardous materials and wastes. Includes an overview of legislative history and trends, industry's role in regulatory development, and its impact. Prerequisite: ST 501.

503 Principles of Toxicology. (3) S
Interaction of chemicals with life and environment. Mechanisms of toxic action, dose response relationships, toxicity testing modes, predictive toxicology, epidemiology. Prerequisite: CHM 113 and 115

504 Technology for Storage, Treatment, and Disposal of Hazardous Materials. (3) F
Current and state-of-the-art technologies, and future trends for storage, treatment and disposal of hazardous materials and waste. Prerequisites: CHM 113 and 115. ST 501

505 Quantitative Analysis and Practical Laboratory Techniques. (3) F S
Examines laboratory techniques for evaluation of hazardous materials and discusses how to interpret data from analytical processes and regulatory requirements. Like SW 846. Lab will be arranged off site. Prerequisites: CHM 101 or 113 or 114. MAT 170

506 Chemistry of Hazardous Materials. (3) F
Chemical information needed for handling spilled hazardous substances. Response needs for oxidizers, organics and inorganics and basic toxicology needs. Prerequisites: CHM 113 and 115. ST 501. MAT 170. Corequisite: CHM 231.

522 Air Pollution and Toxic Chemicals. (3) F
Examines issues in the measurement, analysis and control of toxic chemicals in air pollution. Prerequisites: CHM 113 and 115. ST 501; MAT 170.

523 Soils and Groundwater Contamination. (3) N
Theoretical and practical hydrogeology as it applies to cleaning up contamination. Investigative techniques, monitoring, risk assessment, and assessment methodology. Prerequisites: CHM 113 and 115; IST 501; MAT 170. Corequisite: CHM 231

524 Emergency Preparedness, Response, and Planning for Hazardous Materials. (3) S
In-house or on-site emergency response contingency planning, pre-emergency assessment, resources for cooperation, equipment requirements, and coordination with other agencies. Prerequisites: CHM 113 and 115. ST 501. MAT 170

525 Risk Assessment for Hazardous Materials. (3) F
Examines the risk assessment process and its application in various situations ranging from controlling hazardous facilities to control of toxic substances in the environment. Prerequisites: CHM 101 or 113 or 114. ST 501. MAT 170.

526 Current Issues: Radon, Asbestos. (3) S
Deals with the latest up-to-date topics in toxic management. New subjects may be added and others deleted as issues of the day become apparent. Prerequisites: CHM 101 or 113 or 114. ST 501. MAT 170

527 Environmental/Resources Regulations Concepts. (3) S
Covers development of environmental, natural resources and water law from common law to modern statutory requirements. Specifics on

Superfund, hazardous materials and toxic regulations and liability contracts. Prerequisites: CHM 101 or 113 or 114. ST 501

542 Global Management Philosophies. (3) N
Analysis and comparison of significant supervisory philosophies developed in various industrial nations and their potential application in the United States

549 Research Techniques and Applications. (3) F S
Selection of research problems, analysis of literature and individual investigations, preparing reports, and proposal writing.

550 Industrial Training. (3) N
Training techniques and learning processes. Planning, development and evaluation of training programs in industry and governmental agencies. Prerequisite: advisor approval.

570 Project Management. (3) S
Planning, organizing, coordinating and controlling staff and project groups to accomplish the project objective

INTERACTIVE COMPUTER GRAPHICS

ICG 212 Design Documentation. (3) S
Using microcomputer-based graphics systems for product design and documentation. Geometric shape analysis and description. Documentation on techniques and standards. Demonstration. Lecture/lab/trips. Prerequisite: ECE 106

310 Computer Graphics Fundamentals. (3) S
Computer image creation, transformation, and manipulation. Current techniques for database generation. Concepts of applications software development. Hands-on experience. Lecture/lab/trips. Prerequisite: programming background helpful but not necessary. *General Studies: N3.*

312 Computer-Aided Design and Drafting. (3) F
Using computer-aided design and drafting application software for advanced geometric construction. System and workstation configuration and productivity. Modeling applications. Lecture/lab/trips. Prerequisite: CG 212. *General Studies: N3.*

313 Technical Illustration. (3) F
Pictorial drawing, shades and shadows, and multimedia rendering techniques. Lecture/lab. Prerequisite: ICG 212

314 Computer Graphics Database. (3) S
Preparing the product definition on database for computer-integrated manufacturing. Documentation and process requirements, systems and standards. Precision dimensioning. Lecture/lab/trips. Prerequisite: ICG 212 or instructor approval.

412 Computer Graphics Modeling. (3) F
Establishing and manipulating 3-dimensional computer models. Applications, including solid modeling concepts, design analysis, dynamics simulation, and graphics data exchange files. Lecture/lab/trips. Prerequisite: CG 312. *General Studies: N3*

413 MicroCADD Applications. (3) F
Student selected modules, including architecture, construction, civility and electronic drawing, mechanical manufacturing, animation, computer graphics, and others. Lecture/lab, field trips. Prerequisite: ICG 212.

417 Graphics Systems Management. (3) S
Planning, implementing and managing computer graphics systems. Applications, needs assessment, analysis of components, system ergonomics, interfacing, maintenance and human resources management. Lecture/lab, field trips. Prerequisite: instructor approval.

461 Computer Animation. (3) F
Fundamental technology used in creating 2-dimensional and 3-dimensional animation through modeling, scripting and rendering as related to engineering simulation. Lecture/lab/trips. Prerequisite: ICG 310 or instructor approval.

517 Graphics Systems Development. (3) S
Research and development in computer graphics systems. Applied project management development evaluation, and implementation. Lecture/lab, field trips. Prerequisite: ICG 412 or instructor approval

MANUFACTURING TECHNOLOGY

MET 230 Engineering Materials and Processing. (3) F, S, SS
Materials, their structures, properties, fabrication characteristics and applications. Material forming, joining and finishing processes. Automation and quality control. Prerequisite: CHM 101 or 113 or 114

231 Manufacturing Processes. (3) F
Metal removal processes emphasizing drilling, milling, and lathe processes, including tool grinding. Emphasis on production speeds and feeds. Lecture/lab. Prerequisites: ETC 100; MET 230

300 Applied Material Science. (4) F
Principles of material science emphasizing concepts relevant to manufacturing and use. Discuss metals, polymers, ceramics and composites. 3 hours lecture, 1 hour lab. Prerequisite: MET 230 or instructor approval.

302 Welding Survey. (3) F
Theory and application of industrial welding processes; introductory welding metalurgy and weldment design; SMAW, GTAW, GMAW, oxyacetylene, and brazing experiences. Lecture/lab. Prerequisite: upper-class standing.

303 Machine Control Systems. (3) S
Theory and application of electromechanical, hydraulic, pneumatic, fluidic, and electrical control systems for manufacturing. Lecture/lab. Prerequisites: ETC 201 or PHY 112; MAT 260

313 Applied Engineering Mechanics: Materials. (4) F, S, SS
Stress, strain relations between stress and strain, shear, moments, deflections, and combined stresses. 3 hours lecture, 1 hour lab. Prerequisite: ETC 211

321 Engineering Evaluation of Welding Processes. (3 N)

Theory and application of the arc welding processes and oxy fuel cutting, fxturing, procedures, safety codes and experimental techniques are covered. Lecture/lab. Prerequisite: MET 302 PHY 112.

322 Engineering Evaluation of Nontraditional Welding Processes. (3 N)

Theory and applications of EBW, LBW, solid state bonding, brazing, and soldering. Lecture/lab. Prerequisites: MET 302 PHY 112.

325 Electrical Power Source Analysis. (4 S) Design and operating characteristics of electrical power sources and related equipment. Equipment selection, setup and troubleshooting procedures covered. Lecture, lab. Prerequisites: ETC 201 MET 302 PHY 112, 114

331 Design for Manufacturing I. (3 S)

Introduction to design of machines and structures with emphasis on layout design drawing. Basics of gears, cams, fasteners, springs, bearings, cylindrical fits, flat pattern development and surface finish requirements emphasized. Prerequisite: MET 313

341 Manufacturing Analysis. (3 S)

Introduction to the organization and functional requirements for effective production. Includes writing production operation plans. Prerequisite: MET 231

343 Material Processes. (4 S)

Industrial processings as applied to low, medium and high volume manufacturing. Basic and secondary processing, fastening and joining, coating and quality control. Lecture/lab.

344 Casting and Forming Processes. (3 S)

Analysis of various forming processes to determine load requirements necessary for a particular metal forming operation. This information is used to select equipment and design tooling. Metal casting processes and design of castings. Introduction to powder metallurgy. Prerequisites: MET 300 313 or instructor approval.

345 Advanced Manufacturing Processes. (3 S)

Metal removal processes emphasizing milling, grinding, turret and tracer lathes, and cutter sharpening. Application of machinability theory to practice. Product on feeds, speeds and tool wear measurement. Lecture, lab. Prerequisites: MET 231 300 or instructor approval.

346 Numerical Control Point to Point and Continuous Path Programming. (3 N)

Methods of programming, setup and operation of numerical control machines emphasizing lathes and mill systems. Lecture, lab. Prerequisite: MET 231

354 Mechanics of Materials. (4 F)

Vectors, force systems, friction, equilibrium, centroids and moment of inertia. Concepts of stress, strain, and stress analysis as applied to beams, columns, and combined loading. Nonmaors only. Prerequisites: MAT 170; PHY 111.

401 Statistical Process Control. (3 S)

Introduction to statistical quality control methods as applied to tolerances, process control, sampling, and reliability. Prerequisite: MAT 117 or 170

416 Applied Computer Integrated Manufacturing. (3 F)

Techniques and practices of Computer Integrated Manufacturing, with an emphasis on Computer Aided Design and Computer Aided Manufacturing. Prerequisite: MET 346 or instructor approval. *General Studies N3*

420 Welding Metallurgy I. (4 N)

Metallurgical principles as applied to structural and alloy steel and aluminum weldments. Laboratory emphasis on welding experiments, metallography and mechanical testing. Lecture, lab. Prerequisites: MET 300, 302

421 Welding Metallurgy II. (3 N)

Metallurgical principles as applied to stainless steel, superalloy titanium and other refractory metal weldments and braze joints. Prerequisite: MET 300.

425 Welding Codes. (2 N)

Familiarization with and application of the various codes, standards and specifications applicable to weldments. Prerequisite: MET 302 or equivalent.

432 Applied Thermodynamics and Heat Transfer. (3 F S)

Thermodynamics of mixtures, combustion process. Applications of thermodynamics to power and refrigeration cycles. Heat transfer including steady state conduction, convection and radiation. Prerequisite: ETC 340

433 Thermal Power Systems. (4 N)

Analysis of gas power, vapor power and refrigeration cycles. Components of a refrigeration system. Direct energy conversion. Psychrometry. Analysis of internal combustion engines and fluid machines. Lecture/lab. Prerequisite: MET 432 or instructor approval.

434 Applied Fluid Mechanics. (3 N)

Fluid statics. Basic fluid flow equations. Viscous flow in pipes and channels. Compressible flow. Applications to fluid measurement and flow conduits. Prerequisite: ETC 340

436 Turbomachinery Design. (3 N)

The application of thermodynamics and fluid mechanics to the analysis of machinery design and power cycle performance predictions. Prerequisite: MET 432 or instructor approval.

438 Design for Manufacturing II. (4 F)

Application of mechanical design of machine elements and structures. Use of experimental stress analysis in design evaluation. Lecture/lab. Prerequisite: AET 312 or MET 331 or instructor approval.

442 Specialized Production Processes. (3 F)

Nontraditional manufacturing processes, emphasizing EDM, ECM, ECG, CM, PM, HERF, EBW and LBW. Prerequisite: MET 230

443 N/C Computer Programming. (3 F)

Theory and application of computer-aided N/C languages with programming emphasis with APT and substitute postprocessors. Lecture/lab. Prerequisite: MET 346 or instructor approval.

444 Production Tooling. (3 F)

Fabrication and design of jigs, fixtures and special industrial tooling related to manufacturing methods. Lecture/lab. Prerequisite: MET 345

448 Expert Systems in Manufacturing. (3 F)

Introduction to expert systems through conceptual analysis, with an emphasis on manufacturing applications. Prerequisite: MET 231

451 Introduction to Robotics. (3 F)

Introduction to industrial robots. Topics included are robot geometry, robot workspace, trajectory generation, robot actuators and sensors, design of end effectors, and economic justification. Prerequisite: MET 303 or instructor approval.

452 Implementation of Robots in Manufacturing. (3 N)

Robot cell design, including end effectors, parts presenters, and optimum material flow. Prerequisite: MET 451 or instructor approval.

453 Robotic Applications. (3 S)

Lab course utilizing robots and other automated manufacturing equipment to produce a part. Students are required to program robots as well as interface the robots with other equipment. Prerequisite: MET 303 or 325 or instructor approval.

460 Manufacturing Capstone Project I. (3 F)

Small group projects to design, evaluate and analyze components, assemblies and systems. Lecture, lab. Prerequisite: MET 303 or instructor approval.

461 Manufacturing Capstone Project II. (3 S)

Small group projects applying manufacturing techniques with an emphasis on demonstrating state of the art technology. Lecture, lab. Prerequisite: MET 460 or instructor approval.

462 Capstone Project/Weldment Design. (3 S)

Design of welded structures and machine elements in terms of allowable stresses, joint configurations, process capabilities, and cost analysis, welding procedures emphasized. Prerequisites: MET 302, 313.

517 Applied Computer Integrated Manufacturing. (3 F)

Techniques and practices of Computer Integrated Manufacturing with an emphasis on Computer Aided Design and Computer Aided Manufacturing. Prerequisite: MET 346 or instructor approval.

542 N/C Computer Programming. (3 F)

Theory and application of computer-aided N/C languages with programming emphasis with APT and substitute postprocessors. Application case studies are included. Lecture, lab. Prerequisite: MET 346 or instructor approval.

552 Introduction to Robotics. (3 F)

Introduction to industrial robots. Topics included are robot workspace, trajectory generation, robot actuators and sensors, design of end effectors and economic justification. Application case studies. Prerequisite: MET 303 or instructor approval.

ASU East Directory

For the ASU Main "Directory," see pages 522-524.
 For the "ASU West Directory," see page 509.

Administrative and Academic Offices

General Information	ASU East	965-3278
Admissions, Undergraduate	SSV C111	965-7788
Admissions, Graduate	WILSN 101	965-6113
Bookstore	ASU East	965-7928
ASU East Valley Center	ASU East	965-9781
Agribusiness and Resource Management, School of	ASU East	965-3585
Technology, School of	ASU East	965-3874
Aeronautical Technology, Department of	ASU East	965-7775
Electronics and Computer Technology, Department of	ASU East	965-3137
Manufacturing and Industrial Technology, Department of	ASU East	965-3781



Faculty and Academic Professionals

The faculty and academic professionals listed are involved in undergraduate and graduate instruction and research. The year of first appointment follows the name. Emeriti are included.

Aannestad, Per 1975 . Associate Professor of Physics and Astronomy; B.S., University of Oslo (Norway); Ph.D., University of California, Berkeley

Abbott, David R. 1994 . Adjunct Faculty of Anthropology; B.A. Adelphi University; M.S., University of Arizona, M.A., Ph.D., Arizona State University

Abele, Deborah 1990 . Faculty Associate of Planning and Landscape Architecture; B.A., Vassar College

Aberle, James T. 1989 . Associate Professor of Electrical Engineering; B.S., M.S., Polytechnic Institute of New York, Ph.D., University of Massachusetts, Amherst

Abraham, Willard (1953), Professor Emeritus of Special Education; B.S., Illinois Institute of Technology; M.Ed., Chicago Teachers College, Ph.D., Northwestern University

Abston, Deborah (1990 . Assistant Librarian - Access Services; B.S., M.S.L.S., Wayne State University

Acevedo, Roberto M. 1964 . Professor Emeritus of Foreign Languages; B.A., University of California, Berkeley; M.A., Ph.D., University of Arizona

Acharya, Raghunath 1976 . Associate Professor of Physics and Astronomy; B.Sc. M.Sc., University of Delhi (India) . Ph.D., University of Rochester

Acker, Barbara 1991 . Assistant Professor of Theatre; B.F.A., University of Texas, Austin, M.A., Case Western Reserve University, Ph.D. Wayne State University

Acker, William J. 1970 . Professor Emeritus of Geography; B.S., Purdue University; M.S., University of Kansas; M.A., Ph.D., Syracuse University

Adams, Donna 1983 . Assistant Professor of Nursing; B.S.N. University of Missouri, Columbia, M.S., Arizona State University; D.N.Sc., University of San Diego

Adams, Karen L. (1984 . Associate Professor of English; B.A., M.A., Ph.D., University of Michigan

Adelson, Roger D. 1974 . Associate Professor of History; B.A., George Washington University, B.Litt., University of Oxford (England); M.A., Ph.D., Washington University

Agadjanian, Victor 1995 . Assistant Professor of Sociology; B.A., Moscow State University . M.S., Ph.D., University of Southern California

Aguilar, John L. 1976 . Associate Professor of Anthropology; B.A., University of California, Los Angeles; M.A., California State University, Los Angeles, Ph.D., University of California, San Diego

Ahn, Seung C. 1990), Assistant Professor of Economics; B.A., Sogang University, M.A., Ph.D., Michigan State University

Aiken, Leona S. 1985 . Professor of Psychology; B.S., Virginia Commonwealth University, M.S., Ph.D., Purdue University

Akers, Lev A. 1980 . Professor of Engineering, B.S.E.E., M.S.E.E., Ph.D., Texas Tech University

Akins, William H. 1975 . Professor of Theatre; B.A., Duke University . M.A., Ph.D., University of Denver

Aksentowitz, Gloria J. 1987 . Assistant Learning Resources Specialist, Video Resources; B.F.A., University of Nebraska, M.Ed., Arizona State University

Alarcon, Justo 1968 . Professor of Languages and Literatures; B.A., M.A., Salamanca (Spain); M.A., Laval University (Canada), Arizona State University; Ph.D., University of Arizona

Alarcon, Ricardo O. 1989 . Associate Professor of Physics and Astronomy; B.S., M.S., University of Chile (Chile) . Ph.D., Ohio University

- Alberts, Jess K.** (1989), Associate Professor of Communication, Chair, Department of Communication, B.S. Ed., M.A. Abilene Christian University, Ph.D., University of Texas, Austin
- Alcock, John** 1972, Regents' Professor of Zoology, B.A., Amherst College; Ph.D., Harvard University
- Alcorn, Marianne S.** (1981), Law Librarian, Reference; B.A., University of Washington; M.L.S., University of Southern California
- Aldrich, Frank T.** (1969), Associate Professor of Geography, B.A., University of Texas, Austin, M.S., Ph.D., Oregon State University
- Alexander, Robert J.** (1975), Professor of German, B.A., Macalester College, M.A., Ph.D., University of Wisconsin, Madison
- Alford, Terry L.** 1993, Assistant Professor of Engineering, B.S., M.S., North Carolina State University, Raleigh, Ph.D., Cornell University
- Alisky, Marvin** (1957), Professor Emeritus of Political Science, B.A., M.A., Ph.D., University of Texas, Austin
- Allee, David R.** (1991), Assistant Professor of Electrical Engineering, B.S.E.E., University of Cincinnati, M.S.E.E., Ph.D., Stanford University
- Allen, Craig M.** (1991), Associate Professor of Journalism and Telecommunication, B.A., Linfield College; M.S., University of Oregon; Ph.D., Ohio University
- Allen, James P.** (1989), Associate Professor of Chemistry and Biochemistry; B.S., Saint Joseph's University, M.S., Ph.D., University of Illinois
- Allen, Stephen G.** (1988), Adjunct Assistant Professor of Botany, B.S., M.S., Montana State University; Ph.D., University of Arizona
- Allison, Maria T.** (1984), Professor of Recreation Management and Tourism, B.S., M.S., University of New Mexico, Ph.D., University of Illinois
- Alozie, Nicholas O.** 1991, Associate Professor of Public Affairs, B.A., M.P.A., Texas Southern University, M.A., Ph.D., University of Texas, Dallas
- Alpers, Rojann** (1995), Assistant Professor of Nursing, B.S.N., M.S., Arizona State University, Ph.D., University of Iowa
- Alquist, Lewis R.** (1984), Professor of Art; B.F.A., Florida Atlantic University; M.F.A., Cranbrook Academy of Art
- Altheide, David L.** (1973), Regents' Professor of Justice Studies; B.A., Central Washington State College; M.A., University of Washington; Ph.D., University of California, San Diego
- Alvarado, Ronald H.** 1974, Professor of Zoology; Interim Associate Dean, College of Extended Education; B.A., University of California, Riverside, M.S., Ph.D., Washington State University
- Alvarez, Robert R. Jr.** (1989), Associate Professor of Anthropology, B.A., Northern Arizona University; M.A., San Diego State University; M.A., Ph.D., Stanford University
- Ames, James G.** (1985), Senior Research Associate, Computer Integrated Manufacturing Systems Research Center; B.S., San Diego State University
- Amin, Omar M.** 1994, Adjunct Faculty of Zoology, B.S., M.S., Cairo University (Egypt); Ph.D., Arizona State University
- Amundson, Susan D.** 1995, Assistant Professor of Operations Management, B.S., Moorhead State University, M.B.A., College of St. Thomas, Ph.D., University of Minnesota
- Anderson, Douglas A.** (1979), Cronkite Endowment Board of Trustees Professor of Journalism and Telecommunication, Director, Walter Cronkite School of Journalism and Telecommunication; B.A., Hastings College; M.S., Kearney State College, Ph.D., Southern Illinois University, Carbondale
- Anderson, Gary** (1975), Associate Professor of Reading and Library Science, B.S., M.Ed., Edinboro State College; Ph.D., University of Pittsburgh, Pittsburgh
- Anderson, James R.** (1984), Associate Research Scientist of Chemistry and Biochemistry, B.A., Williams College; Ph.D., California Institute of Technology
- Anderson, Karen** (1987), Faculty Associate of Nursing, B.S., M.S., Arizona State University
- Anderson, Marcia L.** 1986, Librarian: Head, Acquisitions/Bibliographic Records, A.B., University of Michigan; M.S., Wayne State University
- Anderson-Rowland, Mary R.** 1974, Associate Professor of Engineering, Associate Dean, Student Affairs and Special Programs, B.A., Hope College, M.S., Ph.D., University of Iowa
- Anderson, Melvin S.** (1967), Professor Emeritus of Finance, B.S., M.S., Oklahoma State University, Ed.D., University of Arkansas
- Andress, Barbara L.** 1972, Professor Emeritus of Music; B.A., M.A., Arizona State University
- Andrews, Johnester, SSG** (1996), Instructor of Military Science
- Angell, C. Austen** (1989), Professor of Chemistry and Biochemistry, B.S., M.S., Melbourne University (Australia); Ph.D., University of London, England
- Appleton, Nicholas R.** (1972), Professor of Educational Policy Studies, Associate Dean for Teacher Preparation Program, College of Education, B.A., San Francisco State University; M.A., California State University, Northridge, Ed.D., University of Massachusetts, Amherst
- Aranda, Luis** (1975), Associate Professor of Legal and Ethical Studies, B.M., M.Ed., University of Arizona; J.D., Arizona State University
- Arciniega, G. Miguel** (1979), Associate Professor of Counselor Education, B.S., M.A., New Mexico State University; Ph.D., University of Arizona
- Arias, M. Beatriz** (1989), Associate Professor of Multicultural Education, Director, Center for Bilingual and Bicultural Education, B.A., M.A., Occidental College, Ph.D., Stanford University
- Armbruster, Dieter** (1989), Professor of Mathematics, Abitur, Zeppelin Gymnasium (West Germany), Diplom, Ph.D., University of Tübingen (West Germany)
- Armendt, Brad** (1989), Associate Professor of Philosophy, B.A., William Marsh Rice University; Ph.D., University of Illinois, Chicago
- Armstrong, Robert L.** (1967), Professor Emeritus of Secondary Education, B.A., State Teachers College of Iowa; M.S., University of Iowa; Ed.D., University of Arizona
- Arner, Douglas G.** 1959, Professor Emeritus of Philosophy, B.S., Creighton University, M.A., Ph.D., University of Michigan
- Arnold, William E.** (1973), Professor of Communication, B.S., M.A., Northern Illinois University, Ph.D., Pennsylvania State University
- Aronson, Jerome M.** 1966, Professor of Botany, Acting Chair, Department of Botany, B.A., Ph.D., University of California, Berkeley
- Arreola, Daniel** (1990), Professor of Geography, B.A., University of California, Los Angeles, M.A., California State University, Hayward; Ph.D., University of California, Los Angeles
- Arrowsmith, Ramon** 1995, Assistant Professor of Geology, B.A., Whittier College; Ph.D., Stanford University
- Arterian, Hannah** 1979, Professor of Law, Associate Dean, College of Law, B.A., Elmira College; J.D., University of Iowa

- Ashcraft, Robert F.** (1995), Assistant Professor of Recreation Management and Tourism; B.A., University of Arizona, M.A., Northern Arizona University; Ph.D., Arizona State University
- Ashcroft, Edward A.** 1988, Professor of Computer Science and Engineering; B.A., Cantab (England), Ph.D., Imperial College of London (England)
- Ashe, Robert W.** (1955), Professor Emeritus of Education, A.B., M.A., Arizona State University, Ed.D., University of Southern California
- Ashford, Jose B.** (1984), Professor of Social Work, B.A., Loyola University, New Orleans, M.S.W., Ohio State University, Ph.D., Bowling Green State University
- Ashley, Richard** (1981), Associate Professor of Political Science, B.A., University of California, Santa Barbara, M.A., Ph.D., Massachusetts Institute of Technology
- Ashur, Suleiman A.** 1994, Faculty Associate, Center for Environmental Studies, B.S., An-Najah National University, Israel, M.S.E., University of Michigan, Ph.D., Arizona State University
- Ater, Steven** 1992, Assistant Professor of Art, B.A., Central Washington University, M.F.A., University of Illinois
- Atsumi, Takayori P.** (1968), Professor of Music; B.F.A., Kunitachi Music College (Japan), M.M., New England Conservatory of Music
- Au, Chih-Chun** 1970, Law Librarian, Head, Technical Services, LL.B., National Taiwan University (Taiwan), M.A., University of Chicago
- Aulerich, Christopher E.** (1989), Faculty Associate, Del E. Webb School of Construction
- Autore, Donald D.** (1959), Professor Emeritus of Technology, B.S.E., University of Michigan; M.S.E., Arizona State University
- Ax, Leland S.** (1959), Professor Emeritus of Engineering, B.S.E., B.S.R.E., Tri-State College; M.S., Kansas State College
- Axelrod, Morris** (1972), Professor Emeritus of Sociology, B.A., Ph.D., University of Michigan
- Axford, Roger W.** (1975), Professor Emeritus of Secondary Education; B.A., Nebraska Wesleyan University; M.A., Ph.D., University of Chicago
- Ayres, James E.** (1982), Adjunct Professor of Anthropology, B.A., Fresno State University, M.A., University of Arizona
- Backhaus, Ralph A.** (1977), Professor of Botany; B.S., Rutgers, The State University, M.S., Ph.D., University of California, Davis
- Backus, Charles E.** 1968, Professor of Engineering; Associate Dean, Industrial and Professional Development, College of Engineering and Applied Sciences, B.S.M.E., Ohio University; M.S., Ph.D., University of Arizona
- Bacon, Sid P.** (1988), Professor of Speech and Hearing Science; B.G.S., M.A., University of Kansas, Ph.D., University of Minnesota, Twin Cities
- Bacon, Thomas** 1993, Professor of Theater, B.S., Oakland University
- Badger, William W.** (1985), Professor of Construction, Director, Del E. Webb School of Construction, B.S.M.E., Auburn University, M.S.C.E., Oklahoma State University, Ph.D., Iowa State University
- Baer, Steven M.** (1988), Associate Professor of Mathematics, B.S., M.S., Ph.D., University of Illinois
- Bagwell, Marilyn** (1972), Associate Professor of Nursing, B.S.N., University of California, Los Angeles; M.A., Arizona State University; Ph.D., Texas Woman's University
- Bahr, Donald M.** (1967), Professor of Anthropology; A.B., M.A., Ph.D., Harvard University
- Bailey, James E.** (1974), Professor of Engineering, B.S.I.E., M.S.I.E., Ph.D., Wayne State University
- Baier, Leslie** (1990), Adjunct Professor, Microbiology; B.A., Lawrence University, Ph.D., University of Michigan
- Baker, Dale R.** (1989), Associate Professor of Secondary Education, B.A., University of Oklahoma, M.A.T., Trenton State College, Ed.D., Rutgers, The State University
- Baker, Georgianne R.** 197, Professor Emeritus of Family Resources and Human Development; B.S., Marygrove College, M.S., Ohio State University, Ph.D., Michigan State University
- Baker, Lawrence A.** 1997, Assistant Professor of Civil Engineering, B.S., Pennsylvania State University; M.S., Utah State University, Ph.D., University of Florida
- Baker, Marc A.** 1988, Adjunct Assistant Professor of Botany, B.A., San Jose State University, M.A., Humboldt State University, Ph.D., Arizona State University
- Balanis, Constantine A.** (1983), Regents' Professor of Electrical Engineering, Director, Telecommunications Research Center; B.S.E.E., Virginia Polytechnic Institute and State University; M.E.E., University of Virginia, Ph.D., Ohio State University
- Balasubramanian, Krishnan** (1983), Professor of Chemistry and Biochemistry; M.Sc., Birla Institute of Technology Science (India); M.A., Ph.D., Johns Hopkins University
- Balcazar, Hector** (1989), Associate Professor of Family Resources and Human Development, B.S., Iberoamericana University Mexico, M.S., Ph.D., Cornell University
- Baldini, Pier Raimondo** 1978, Professor of Italian, Chair, Department of Languages and Literatures; B.A., San Francisco State University, M.A., University of British Columbia (Canada), Ph.D., University of California, Los Angeles
- Balling, Robert C.** 1987, Associate Professor of Geography; Director, Climatology Laboratory, A.B., Wittenberg University, M.A., Bowling Green State University, Ph.D., University of Oklahoma
- Ballon-Aguirre, Enrique** 1992, Associate Professor of Foreign Languages, Bachiller en Letras, Bachiller en Derecho, University of Arequipa (Peru); Doctor en Literatura, The National University of San Marcos (Peru); Doctorat en Études Iberiques, University of Paris III, France
- Bantz, Charles R.** 1986, Professor of Communication; Vice Provost, Office of the Senior Vice President and Provost, B.S., M.A., University of Minnesota, Twin Cities, Ph.D., Ohio State University
- Bao, Qingcheng** 1988, Associate Research Professional, Chemistry and Biochemistry, B.S., Tsinghua University (China), M.S., Semiconductor Institute, C.A.S. China, Ph.D., Chinese University of Science and Technology (China)
- Barcelo, Hélène** (1990), Assistant Professor of Mathematics, M.S.C., University of Quebec (Canada); Ph.D., University of California, San Diego
- Barchilon, Marian G.** (1989), Associate Professor of Manufacturing and Industrial Technology; B.S., State University of New York, Binghamton, M.S., Northeastern University
- Bardewyck, Loretta A.** 1957, Professor Emeritus of Nursing; Dean Emeritus, College of Nursing, P.H.N., B.S., University of Minnesota, Twin Cities; M.S., Cornell University
- Bardrick, Richard A.** (1956), Professor Emeritus of Psychology, A.B., Ph.D., University of California, Los Angeles
- Barker, David** 1983, Associate Professor of Theatre; B.S.E., Duquesne University, M.F.A., Rutgers, The State University

- Barkley, Margaret V.** (1963), Professor Emeritus of Family Resources and Human Development, B.S., Millikin University, M.S., Ed.D., University of Illinois
- Barkson, Joseph A.** (1958), Professor Emeritus of Engineering, B.S.E.E., University of Michigan, M.S., Ph.D., University of Illinois
- Barlow, Richard B.** (1964), Professor Emeritus of History; B.A., M.A., Ph.D., University of Pennsylvania
- Barnard, John P.** (1991), Assistant Learning Resources Specialist, Video Resources, B.S., State University of New York, M.Ed., Arizona State University
- Barnhill, Robert** (1986), Professor of Computer Science and Engineering, Vice President for Research and Strategic Initiatives, B.A., University of Kansas, M.A., Ph.D., University of Wisconsin, Madison
- Barona, Andrés** (1986), Professor of Education, Academic Program Coordinator, School Psychology, B.S., M.Ed., Texas A&M University; Ph.D., University of Texas, Austin
- Barone, Thomas** (1990), Professor of Curriculum and Instruction, B.A., Loyola University, New Orleans, M.A., University of New Orleans; Ed.D., Stanford University
- Barrera, Manuel** (1977), Professor of Psychology; B.S., University of Wisconsin, Eau Claire; M.A., Ph.D., University of Oregon
- Barrett, Marianne** (1994), Assistant Professor of Journalism and Telecommunication, B.S., Kutztown University, M.P.S., Syracuse University, Ph.D., Michigan State University
- Barrett, Thomas W.** (1950), Professor Emeritus of Agribusiness and Resource Management, B.S., Brigham Young University; M.S., Ph.D., Cornell University
- Barroll-Aschaffenburg, Rayna** (1980), Associate Professor of Music; B.M., University of Texas; D.M.A., University of Maryland, College Park
- Bartels, Robert D.** (1981), Professor of Law, B.A., University of Michigan; J.D., Stanford University
- Barton, C. Michael** (1987), Associate Professor, Anthropology, Collections Administrator, B.A., University of Kansas, M.A., Ph.D., University of Arizona
- Bartz, Donna R.** (1968), Professor of Theatre, B.F.A., M.A., University of Colorado
- Batalden, Stephen K.** (1976), Professor of History, Coordinator of Russian, East European Studies Consortium; B.A., Augsburg College; M.A., Ph.D., University of Minnesota
- Bates, Dawn W.** (1989), Associate Professor of English; B.A., Ph.D., University of Washington
- Baty, Wayne M.** (1962), Professor Emeritus of General Business; B.S., Southwest Missouri State College, M.A., Northwestern University, Ph.D., University of Southern California
- Bauer, Ernst** (1990), Distinguished Research Professor of Physics and Astronomy; Diplom., Dr. rer. nat., University of Munich (West Germany)
- Baxter, Harry R.** (1982), Professor Emeritus of Engineering, B.A., New York University, M.B.A., Fairleigh Dickinson University, M.Tech., Arizona State University
- Beakley, George C. Jr.** (1956), Professor Emeritus of Engineering; Associate Dean Emeritus, College of Engineering and Applied Sciences, B.S.M.E., Texas Tech University; M.S.M.E., University of Texas, Austin; Ph.D., Oklahoma State University, P.E.
- Beardmore, Gary D.** (1979), Associate Research Technologist, Geology, B.A., Arizona State University
- Beaudoin, Stephen P.** (1995), Assistant Professor of Chemical, Bio and Materials Engineering, B.S., Massachusetts Institute of Technology, M.S., University of Texas, Austin; Ph.D., North Carolina State University
- Beck, Lasca** (1984), Faculty Associate of Nursing, B.S.N., Texas Woman's University, M.S., East Texas State University
- Becker, R. James** (1965), Professor Emeritus of Public Affairs; B.S.M.A., Bradley University; Ph.D., University of Illinois
- Beckman, James R.** (1980), Associate Professor of Engineering, B.S., M.S., University of Wisconsin; Ph.D., University of Arizona
- Bedard, Roger L.** (1990), Professor of Theatre, B.A., University of Northern Iowa; M.F.A., University of Oregon, Ph.D., University of Kansas
- Bedient, Jack D.** (1963), Professor Emeritus of Mathematics, A.B., Albion College, M.B.S., Ed.D., University of Colorado
- Bedworth, David D.** (1963), Professor Emeritus of Engineering, B.S.I.E., Lamar College of Technology, M.S.I.E., Ph.D., Purdue University
- Behrens, John T.** (1994), Assistant Professor of Psychology in Education, Academic Program Coordinator, Measurement, Statistics, and Methodological Studies, B.A., University of Notre Dame, M.A., Ph.D., Arizona State University
- Belgarde, Mary Jiron** (1993), Assistant Professor of Curriculum and Instruction, B.S., M.A., New Mexico State University; Ph.D., Stanford University
- Bell, George H.** (1976-82, 1989), Librarian, Noble Science Reference Service; B.A., William Paterson College, M.L.S., Pratt Institute
- Bell, James W.** (1966), Professor Emeritus of Secondary Education, A.B., Washburn University of Topeka, M.Ed., Ed.D., University of Kansas
- Bell, Janet L.** (1994), Assistant Professor of Social Work, B.A., City University of New York; M.S.W., Arizona State University, Ph.D., Case Western Reserve
- Bell, John E.** (1965), Professor Emeritus of Secondary Education, B.S., University of Nebraska, Lincoln; M.A., Ed.D., University of Wyoming
- Bell, Mary E.** (1970), Professor Emeritus of Education, B.S., Indiana State Teachers College; M.S., Butler University; Ed.D., Indiana University, Bloomington
- Bell, Shirley** (1988), Faculty Associate of Nursing; B.S., University of Cincinnati; M.S., Wayne State University; Ed.D., West Virginia University
- Bellamy, Lynn** (1976), Associate Professor of Engineering, B.S., Texas A&M University, M.S., Ph.D., Tulane University
- Belok, Michael V.** (1959), Professor Emeritus of Education, B.S., Indiana University, Bloomington; M.A., Arizona State University; Ph.D., University of Southern California
- Benavides, Alfredo H.** (1988), Associate Professor of Multicultural Education; Academic Program Coordinator, Multicultural Education, B.A., Texas A&I University; M.A., Ph.D., Michigan State University
- Bender, Bert A.** (1971), Professor of English, B.A., University of Washington, Ph.D., University of California, Irvine
- Bender, Gordon L.** (1953), Professor Emeritus of Zoology, B.S., Iowa State College, M.S., University of Wisconsin, Ph.D., University of Illinois
- Bender, Paul** (1984), Professor of Law; A.B., LL.B., Harvard University

- Benedict, Joel A.** (1946), Professor Emeritus of Education, B.A., M.A., Arizona State University; Ed.D., Stanford University
- Benin, David B.** (1970), Associate Professor of Physics and Astronomy; A.B., Cornell University, M.A., Ph.D., University of Rochester
- Benin, Mary B.** (1979), Associate Professor of Sociology, B.A., Vanderbilt University, M.A., Ph.D., University of Nebraska, Lincoln
- Bennett, ElDean** (1970), Professor Emeritus of Journalism and Telecommunication, B.A., Brigham Young University; M.A., Ph.D., Michigan State University
- Bennett, Gordon R.** (1993), Assistant Professor of Aerospace Studies; B.A., University of Portland; M.B.A., University of South Dakota
- Bennett, Peter A.** (1984), Associate Professor of Physics and Astronomy; B.A., University of Minnesota, Twin Cities; Ph.D., University of Wisconsin, Madison
- Benzinger, Robert P.** (1970), Professor Emeritus of Design, B.S.M.E., University of Wisconsin, Madison, M.A.E., Chrysler Institute of Engineering
- Berch, Michael A.** (1969), Professor of Law; B.A., J.D., Columbia University
- Berens, Michael E.** (1995), Adjunct Faculty of Zoology; B.S., Arizona State University, Ph.D., University of Arizona
- Berkheiser, Mary E.** (1995), Visiting Professor of Law, B.A., J.D., University of Arizona
- Berkowitz, Harold L.** (1990), Faculty Associate, Center for Environmental Studies; B.Ch.E., Polytechnic Institute of Brooklyn; M.Ch.E., Bucknell University
- Berliner, David C.** (1987), Regents' Professor of Educational Leadership and Policy Studies and Psychology in Education, B.A., University of California, Los Angeles, M.A., California State University, Los Angeles; Ph.D., Stanford University
- Berman, David R.** (1966), Professor of Political Science, B.A., Rockford College; M.A., Ph.D., American University
- Berman, Neil S.** (1964), Professor of Engineering; B.S., University of Wisconsin; M.S., M.A., Ph.D., University of Texas
- Bernal, Martha E.** (1986), Professor of Psychology; B.A., University of Texas, El Paso, M.A., Syracuse University; Ph.D., Indiana University, Bloomington
- Bernard, Stephen Z.** (1994), Faculty Associate of Construction; B.S., Arizona State University
- Bernardi, Jose** (1995), Assistant Professor of Design, B.Arch., National University of Cordoba, M.S., University of Cincinnati
- Bernier, Allen** (1995), Instructor of Spanish; B.A., University of Wisconsin, Oshkosh, M.A., Arizona State University
- Bernstein, Bianca L.** (1987), Professor of Counseling Psychology; Dean, Graduate College; B.A., University of California, Berkeley; M.Ed., Ph.D., University of California, Santa Barbara
- Berry, David** (1987), Adjunct Professor of Geography; B.A., Syracuse University, M.A., Ph.D., University of Pennsylvania
- Bertelsen, Wendle R.** (1964), Assistant Professor of Architecture; B.Arch., University of Michigan, M.Arch., University of Arizona
- Bessembinder, Hendrik** (1989), Associate Professor of Finance, B.S., Utah State University; M.B.A., Washington State University, Ph.D., University of Washington
- Bessom, Richard M.** (1968), Professor Emeritus of Marketing, A.B., Cornell University, M.B.A., Stanford University; Ph.D., University of Washington
- Betz, M. Austin** (1974), Associate Professor of Education, B.S., Lock Haven State College, M.Ed., Pennsylvania State University; M.A.T., Brown University; M.A., Ph.D., University of Illinois
- Betz, Mathew J. III** (1961), Professor Emeritus of Engineering; B.S., M.S., Ph.D., Northwestern University
- Bhattacharya, Sourav** (1996), Associate Professor of Computer Science and Engineering; B.E., Jadavpur University (India); M.Tech., Indian Institute of Technology (India); M.S., University of Southwestern Louisiana; Ph.D., University of Minnesota
- Biblarz, Dora** (1980), Librarian; Associate Dean, TQS/CI, University Libraries; B.A., M.L.S., University of California, Los Angeles, M.A., University of California, Davis
- Bickford, William B.** (1966), Professor of Engineering, B.S., M.S., Kansas State University, Ph.D., University of Illinois
- Bieber, Allan L.** (1963), Professor of Chemistry and Biochemistry; Director, Interdisciplinary Committee on Molecular and Cellular Biology, B.S., M.S., North Dakota State University, Ph.D., Oregon State University
- Biekert, Russell G.** (1993), Lecturer of Manufacturing and Industrial Technology; B.S., M.S., Southern Illinois University, Ed.D., Arizona State University
- Biln, John** (1991), Assistant Professor of Architecture, M.Des., D.Des., Harvard University
- Binder, Gregory** (1989), Faculty Associate of Public Affairs, B.S., U.S. Military Academy; M.S., University of Arizona
- Bingham, Scott** (1989), Assistant Research Scientist, Botany; B.S., Brown University; Ph.D., Brandeis University
- Birge, Edward A.** (1972), Associate Professor of Microbiology; Chair, Department of Microbiology; B.A., Ph.D., University of Wisconsin, Madison
- Birk, James P.** (1973), Professor of Chemistry and Biochemistry; B.A., St. John's University; Ph.D., Iowa State University
- Birtcher, Craig R.** (1987), Assistant Research Specialist, Electrical Engineering, B.S.E., M.S., Arizona State University
- Bitner, Mary J.** (1987), Associate Professor of Marketing; B.A., M.B.A., Ph.D., University of Washington
- Bitter, Gary G.** (1970), Professor of Educational Media and Computers, Academic Program Coordinator, Educational Media and Computers; B.S., Kansas State University, M.A., Kansas State Teachers College; Ph.D., University of Denver
- Bjork, Robert E.** (1983), Professor of English; Director, Arizona Center for Medieval and Renaissance Studies; B.A., Pomona College, M.A., Ph.D., University of California, Los Angeles
- Bjotvedt, George** (1987), Adjunct Professor of Bioengineering; Director, Animal Care Program; B.S., Widener University, V.M.D., University of Pennsylvania
- Blackburn, Jack B.** (1972), Professor Emeritus of Engineering; B.S.C.E., Oklahoma University, M.S.C.E., Ph.D., Purdue University
- Blackham, Garth J.** (1962), Professor Emeritus of Counselor Education; B.S., M.S., Utah State University, Ph.D., Cornell University
- Blackledge, Vernon O.** (1969), Professor of Computer Science and Engineering, B.S.E.E., University of Illinois; M.S.E.E., University of Santa Clara; Ph.D., Arizona State University
- Blackman, William C.** (1988), Research Professor, Center for Environmental Studies, B.S., M.S., University of Missouri, M.P.A., University of Southern California; D.P.A., University of Colorado
- Blackson, Thomas** (1995), Assistant Professor of Philosophy; B.A., De Pauw University, Ph.D., University of Massachusetts

- Blair, Sampson** (1995), Assistant Professor of Sociology; B.S., M.S., Virginia Polytechnic Institute, Ph.D., Pennsylvania State University
- Blakemore, Arthur E.** (1979), Professor of Economics, Chair, Department of Economics, B.S., M.A., University of Detroit; Ph.D., Southern Illinois University, Carbondale
- Blancero, Donna** (1993), Assistant Professor of Management; B.S., College of Old Westbury, M.S., New York Institute of Technology, Ph.D., Cornell University
- Blanchard, Jay S.** (1988), Associate Professor of Reading Education, M.S.T., Drake University, Ph.D., University of Georgia
- Blankenship, Robert E.** (1985), Professor of Chemistry and Biochemistry, B.S., Nebraska Wesleyan College, Ph.D., University of California, Berkeley
- Blasko, Vincent J.** (1980), Associate Professor of Marketing, B.S., M.B.A., Arizona State University; Ph.D., University of Texas, Austin
- Bloom, David** (1995), Assistant Professor of Microbiology, B.S., University of North Carolina, Chapel Hill; Ph.D., Vanderbilt University
- Bloom, Linda** (1996), Assistant Professor of Chemistry and Biochemistry, B.A., University of North Carolina, Chapel Hill, Ph.D., University of Florida
- Blouin, Deborah K.** (1971), Associate Librarian, Reference Service, B.A., Cedar Crest College, M.L.S., State University of New York, Albany
- Blount, Douglas J.** (1990), Assistant Professor of Mathematics; B.S., M.S., Ph.D., University of Wisconsin, Madison
- Blumenfeld-Jones, Donald** (1990), Assistant Professor of Curriculum and Instruction, B.A., Rutgers, The State University, M.F.A., Ed.D., University of North Carolina, Greensboro
- Boatsman, James R.** (1986), Peat Marwick Professor of Accountancy; B.S., M.S., Oklahoma State University, Ph.D., University of Texas, Austin
- Bodell, Leonard S.** (1992), Adjunct Professor of Anthropology; B.A., Hobart and William Smith Colleges; M.D., New York Upstate Medical Center
- Boetto, Laurel B.** (1956), Professor Emeritus of Education; B.A., M.A., Arizona State University
- Bogardus, Clifton** (1992), Adjunct Professor of Zoology; M.D., University of Rochester
- Bogart, Quentin J.** (1970), Professor Emeritus of Educational Leadership and Policy Studies; B.A., M.S., Fort Hayes State College; Ph.D., University of Texas, Austin
- Boggs, Lohnie J.** (1959–65, 1966), Professor Emeritus of General Business; B.S., M.A., Ph.D., Ohio State University
- Bohlander, George W.** (1977), Professor of Management; B.A., San Francisco State College; M.B.A., University of Southern California; Ph.D., University of California, Los Angeles
- Bohlman, Herbert M.** (1964), Associate Professor of Legal and Ethical Studies; B.S., B.A., Drake University, M.B.A., J.D., Indiana University
- Bolef, Lawrence** (1990), Associate Research Specialist, Geology, B.A., Cornell University
- Bolivar, Maria** (1994), Assistant Professor of Spanish; B.A., San Diego State University, M.A., Ph.D., University of California, San Diego
- Booth, James R.** (1980), Associate Professor of Finance, B.S., M.A., Ph.D., University of Alabama
- Borgo, Philip E.** (1967), Professor Emeritus of Engineering, B.S.C.E., University of Cincinnati, M.S., Ohio State University
- Borovansky, Vladimir R.** (1968), Librarian, Collection Development; M.L.S., Ph.D., Charles University, Prague (Czechoslovakia)
- Bortner, M.A.** (1979), Associate Professor of Justice Studies, B.A., Edinboro State College, M.A., Ohio University; Ph.D., Washington University
- Boswell, Jacquelyn** (1982), Professor of Music; B.M.E., Murray State University; M.M.E., Louisiana State University; Ed.D., University of Illinois
- Boulin-Johnson, Leonor** (1988), Associate Professor of Family Resources and Human Development; B.S., East Tennessee State University, M.S., Ph.D., Purdue University
- Bower, Lisa C.** (1990), Assistant Professor of Political Science, B.A., Vassar College, M.A., University of Maryland, Ph.D., University of Wisconsin, Madison
- Bowers, Charles O.** (1948), Professor Emeritus of Music, B.S., Southeast Missouri State College; M.M., D.M.A., University of Rochester
- Boychuk, Tascha D.** (1995), Faculty Associate of Nursing, B.S., University of Alberta (Canada); M.S., Ph.D., Arizona State University
- Boyd, Gertrude A.** (1958), Professor Emeritus of Education, A.B., M.S., Florida State University, Ed.D., Colorado State College
- Boyd, James H.** (1976), Professor of Accountancy, B.B.A., Texas Christian University, M.S., Northeastern University, Ph.D., University of Texas, Austin, C.P.A., Texas
- Boyer, Don L.** (1988), Professor of Mechanical and Aerospace Engineering; Chair, Department of Mechanical and Aerospace Engineering, B.S., Rensselaer Polytechnic Institute, Ph.D., Johns Hopkins University
- Boyer, Jay M.** (1976), Professor of English, B.A., St. Louis University, M.A., Ph.D., State University of New York, Buffalo
- Boyes, William J.** (1974), Professor of Economics; B.S., Idaho State University; Ph.D., Claremont Graduate School
- Boylan, Amy** (1986), Coordinator of Outreach Advising, B.S.W., M.C., Arizona State University
- Boyle, Bernard M.** (1969), Professor of Architecture; B.Arch., University of Sydney (Australia); M.Arch., M.A., Ph.D., Yale University
- Brack, Gay W.** (1992), Assistant Director, Division of Undergraduate Academic Services; B.A., M.A., Ph.D., Arizona State University
- Brack, O.M. Jr.** (1973), Professor of English, B.A., M.A., Baylor University, Ph.D., University of Texas, Austin
- Brada, Josef C.** (1978), Professor of Economics; Director, International Programs, B.S., M.A., Tufts University; Ph.D., University of Minnesota, Twin Cities
- Brady, Ward W.** (1973), Professor of Environmental Resources, B.S., M.S., Ph.D., Colorado State University
- Bramlett-Solomon, Sharon** (1986), Associate Professor of Journalism and Telecommunication; B.A., M.A., Memphis State University; Ph.D., Indiana University, Bloomington
- Brandon, Tedd A.** (1981), Senior Research Specialist, Chemical, Bio and Materials Engineering, Supervisor, Bioengineering Laboratory, B.S., University of California, Davis

- Brandt, Beverly K.** (1987), Associate Professor of Design; Director, Herberger Center for Design Excellence; B.F.A., University of Michigan; M.A., Michigan State University, Ph.D., Boston University
- Brandt, Elizabeth A.** (1974), Professor of Anthropology, B.A., Florida State University, M.A., Ph.D., Southern Methodist University
- Branstetter, Ellamae** (1967), Professor Emeritus of Nursing, B.S., St. Louis University, M.P.H., University of Minnesota, Twin Cities; Ph.D., University of Chicago
- Braun, J. Jay** (1973), Professor of Psychology, Chair, Department of Psychology, B.A., University of Oregon, M.A., Ph.D., Ohio State University
- Braver, Sanford L.** (1970), Professor of Psychology, B.A., Wayne State University; Ph.D., University of Michigan
- Bray, Sandra** (1987), Associate Librarian, Acquisitions/Bibliographic Records Department; B.A., Ottawa University, M.L.S., Indiana University, Bloomington
- Brazel, Anthony J.** (1974), Professor of Geography, Chair, Department of Geography, B.A., M.A., Rutgers, The State University, Ph.D., University of Michigan
- Brazel, Sandra W.** (1974), Faculty Research Associate of Geography, B.S., University of Michigan
- Breckenridge, Jack D.** (1962), Professor of Art, B.S., University of Wisconsin, Milwaukee, M.F.A., University of Iowa
- Bremner, Andrew** (1984), Professor of Mathematics; B.A., M.A., University of Oxford (England); Ph.D., University of Cambridge, England
- Brenenstuhl, Daniel C.** (1978), Associate Professor of Management, B.S., M.B.A., Ohio University, M.S., St. Bonaventure University, D.B.A., Indiana University
- Bresina, Bertha M.** (1960), Professor Emeritus of Family Resources and Human Development, B.S., M.S., Stout State University, Ph.D., Iowa State University
- Briley, Lane D.** (1970), Associate Research Professional, Chemistry and Biochemistry; B.A., Arizona State University
- Brink, Daniel T.** (1976), Professor of English, Associate Dean, Technology Integration, College of Liberal Arts and Sciences; B.A., Lawrence University, M.A., Ph.D., University of Wisconsin, Madison
- Brink, Jean R.** (1974), Professor of English, B.A., Northwestern University, M.A., Harvard University, Ph.D., University of Wisconsin, Madison
- Brito, Tonya Lynn** (1995), Associate Professor of Law, A.B., Columbia University, J.D., Harvard University
- Britton, Daniel R.** (1976), Professor of Art, B.F.A., M.F.A., University of Colorado
- Britton, David** (1987), Professor of Music, B.M., North Texas State University
- Britton, Mervin W.** (1956), Professor of Music, B.S., M.S., University of Illinois
- Broadley, Hugh T.** (1969), Professor Emeritus of Art, A.B., Park College, M.A., Yale University, Ph.D., New York University
- Brock, John H.** (1977), Professor of Environmental Resources, B.S., M.S., Fort Hayes State University, Ph.D., Texas A&M University
- Brook, Weston L.** (1966), Professor Emeritus of Education, B.A., M.A., Ed.D., University of Wyoming
- Brooks, Daniel G.** (1977), Associate Professor of Statistics, B.S., M.S., Colorado School of Mines; M.B.A., Ph.D., Indiana University, Bloomington
- Brose, Marianna F.** (1963), Professor Emeritus of English; B.A., College of William and Mary, Diploma, Royal Academy of Dramatic Art (England), M.A., Arizona State University
- Brown, Alan R.** (1968), Associate Professor of Education; Director, Office of Research and Strategic Planning, College of Education; B.A., M.A., California State University, Los Angeles, Ph.D., University of Texas, Austin
- Brown, Brent W.** (1972), Associate Professor of Public Affairs; Vice President for Institutional Advancement, B.A., Brigham Young University; M.A., Arizona State University, Ph.D., University of Illinois
- Brown, David E.** (1993), Adjunct Professor of Zoology; B.A., San Jose State College
- Brown, Donald E.** (1963), Professor Emeritus of Journalism and Telecommunication, B.A., M.A., University of Iowa
- Brown, Duane** (1950), Professor Emeritus of Chemistry and Biochemistry, B.S., Brigham Young University; Ph.D., Cornell University
- Brown, Jean C.** (1991), Faculty Associate of Speech and Hearing Science, B.S., University of Montevallo, M.A., University of Tennessee; M.S.W., Arizona State University
- Brown, Richard L.** (1982), Professor of Law; Director, Law Library; B.A., University of California, Los Angeles; J.D., Indiana University, Bloomington; M.L.L., University of Washington
- Brown, Stephen W.** (1974), Professor of Marketing, Director, First Interstate Center for Services Marketing, B.S., M.B.A., Ph.D., Arizona State University
- Brown, Theodore M.** (1963), Professor of Chemistry and Biochemistry; B.S., M.S., University of Toledo, Ph.D., Iowa State University
- Brown, Walter C.** (1966), Professor Emeritus of Technology; B.S., Northwest Missouri State University, M.Ed., Ed.D., University of Missouri, Columbia
- Brownson, Charles W.** (1980), Librarian, Collection Development; B.A., South Dakota State University, M.A., University of Oregon, M.L.S., University of California, Berkeley
- Broyles, Susan M.** (1984), Librarian, Government Documents, B.A., Florida State University, M.L.S., Louisiana State University
- Brune, Daniel C.** (1986), Associate Research Specialist, Chemistry and Biochemistry, B.A., University of Kansas, Ph.D., Indiana University, Bloomington
- Bruner, May I.** (1961), Professor Emeritus of Nursing, B.S., University of Hawaii, Honolulu, M.S., University of Colorado
- Brunning, Dennis R.** (1984), Librarian, Library Instruction, Systems, and Technology (L.I.S.T.), B.A., University of Iowa, M.A., M.L.S., University of Illinois
- Bruns, Gilbert H.** (1974), Professor Emeritus of Justice Studies, B.S., M.Ed., South Dakota State University; Ed.D., Arizona State University
- Bryan, Tanis** (1992), Adjunct Professor of Speech and Hearing Science; B.S., M.A., Ph.D., Northwestern University
- Bryant, Fred O.** (1950), Professor Emeritus of Exercise Science and Physical Education; B.S., Springfield College, M.S., University of Illinois, Ed.D., Arizona State University
- Bryant, Sally L.** (1992), Interim Director, Residential Life; Assistant Dean, Student Development, B.S., M.S., University of Kansas

- Brzuzy, Stephanie** 1995, Visiting Assistant Professor of Social Work, B.S.W., Indiana University, Bloomington, M.S.W., University of Illinois, Urbana, M.S.W., Ohio State University
- Buchanan, Michael T.**, Capt 1994, Assistant Professor of Military Science; B.S., University of Southern Mississippi
- Buckingham, Willis J.** 1969, Professor of English; A.B., Harvard University, M.S., University of Wisconsin, Madison, Ph.D., Indiana University
- Budrzyski, Julie A.** (1991), Faculty Associate of Speech and Hearing Science; B.S., Central Michigan University, M.A., Michigan State University
- Buley, Jerry L.** (1973), Associate Professor of Communication, B.A., University of Colorado, M.A., Michigan State University, Ph.D., Florida State University
- Burdette, Walter E.** (1956) Professor Emeritus of Technology; B.S., M.S., Kansas State College of Pittsburg; Ed.D., University of Missouri, Columbia
- Burdick, Richard K.** (1976), Professor of Statistics, B.S., University of Wyoming, M.S., Ph.D., Texas A&M University
- Burg, B. Richard** 196, Professor of History, B.A., University of Colorado, M.A., Western State College of Colorado, Ph.D., University of Colorado
- Burgess, Paul L.** 1969 Professor of Economics; B.A., Ph.D., University of Colorado
- Burgoyne, Edward E.** (1951), Professor Emeritus of Chemistry and Biochemistry, B.S., Utah State University, M.S., Ph.D., University of Wisconsin, Madison
- Burk, Karl W.** (1949, Professor Emeritus of Technology, B.A., M.A., Arizona State University, Ed.D., Bradley University
- Burke, Rebecca J.** (1981), Associate Librarian; Head, Government Documents, B.A., San Jose State University, M.L.S., University of Arizona
- Burke, William F. Jr.** 1977 Professor of Microbiology, B.A., University of Dallas, M.A., North Texas State University, Ph.D., Arizona State University
- Burkett, Lee N.** 1974, Professor of Exercise Science and Physical Education, B.A., M.A., San Diego State University, Ph.D., Washington State University
- Burnham, Maralou E.** 1988, Assistant Research Scientist, Center for Advanced Research in Transportation, B.A., University of Southern California, M.A., Ph.D., Arizona State University
- Burns, Elizabeth K.** (1983), Professor of Geography; Director, Center for Advanced Transportation Research, B.A., Smith College; M.A., Ph.D., University of California, Berkeley
- Burrows, Veronica** (1986), Associate Professor of Engineering, B.S., Drexel University, Ph.D., Princeton University
- Burstein, David** (1982), Professor of Physics and Astronomy; B.A., Wesleyan University, Ph.D., University of California, Santa Cruz
- Burt, Donald M.** (1974), Professor of Geology, A.B., Princeton University, A.M., Ph.D., Harvard University
- Burton, Dora** (1976), Assistant Professor of Russian, M.D., First Leningrad and Kazan Medical Institute (Russia), M.A., Ph.D., University of Washington
- Burton, Foster M.** 1969), Professor Emeritus of Construction; B.S.C.E., B.S., Carnegie Institute of Technology; M.B.A., New York University, Ph.D., University of Pittsburgh
- Buseck, Peter R.** (1963), Regents' Professor of Chemistry and Biochemistry and Geology, B.A., Antioch College, M.A., Ph.D., Columbia University
- Bush, Donald J.** 1975, Professor of Design, B.S., Arizona State University, M.A., University of Notre Dame, Ph.D., University of New Mexico
- Bustoz, Joaquin** 1975, Professor of Mathematics; B.A., M.A., Ph.D., Arizona State University
- Butler, Jay Q.** (1972), Associate Professor of Real Estate; Director, Arizona Real Estate Center, B.B.A., M.B.A., University of New Mexico, Ph.D., University of Washington
- Cabianca, William A.** 1967, Professor of Counselor Education; Academic Program Coordinator, Counselor Education; B.Ed., Gonzaga University, M.Ed., Ph.D., Washington State University
- Cady, Linell E.** (1983), Professor of Religious Studies; Chair, Department of Religious Studies, B.A., Newton College, M.T.S., Th.D., Harvard University
- Cafarella, Robert J.** 1991, Faculty Associate of Planning and Landscape Architecture, B.S., Northeastern University, M.U.P., New York University
- Cale, Timothy S.** (1981), Professor of Engineering; Interim Director, Center for Solid State Electronics Research; B.S., Arizona State University; Ph.D., University of Houston
- Calkins, Jerry M.** 1992, Adjunct Professor, Chemical, Bio and Materials Engineering, B.S.Ch.E., M.S.Ch.E., University of Wyoming; Ph.D., University of Maryland, College Park, M.D., University of Arizona
- Callarman, Thomas E.** 1980, Associate Professor of Operations, B.B.A., West Texas State University, M.B.A., Arizona State University, Ph.D., Purdue University
- Calleros, Charles R.** (1980), Professor of Law, B.A., University of California, Santa Cruz, J.D., University of California, Davis
- Calliss, Frank** (1990), Assistant Professor of Computer Science and Engineering, B.S., University of Ulster at Coleraine (Northern Ireland), Ph.D., University of Durham, England
- Campbell, Ashley** 1990, Faculty Associate of Planning and Landscape Architecture, B.A., Trinity College; M.P.A., Arizona State University
- Campbell, Heather E.** (1991), Assistant Professor of Public Affairs; B.A., University of California, San Diego; M.Phil., Ph.D., Carnegie-Mellon University
- Candelaria, Cordelia** 1991, Professor of English; B.A., Fort Lewis College; M.A., Ph.D., University of Notre Dame
- Candela, Giuseppe** 1995, Assistant Professor of Languages and Literatures, M.A., Ph.D., University of Wisconsin
- Canright, James E.** 1964, Professor Emeritus of Botany, B.A., Miami University, A.M., Ph.D., Harvard University
- Capco, David G.** 1984, Professor of Zoology, B.S., Edinboro State College; M.S., University of Houston; Ph.D., University of Texas, Austin
- Cardy, Robert L.** (1988), Professor of Management; B.S., Central Michigan University, Ph.D., Virginia Polytechnic Institute and State University
- Carlsen, Paul A.** (1978), Professor Emeritus of Technology; B.A.E., M.N.S., Ed.D., Arizona State University
- Carlson, A. Cheree** (1988), Associate Professor of Communication; B.A., M.A., Colorado State University; Ph.D., University of Southern California
- Carlson, Ingeborg L.** 1964, Professor Emeritus of German, Abitur, Holderlin School (West Germany), Vorsemester and Landphil., University of Heidelberg (West Germany); Dr. phil., University of Erlangen Nuremberg (West Germany)

- Carlson, Marilyn** (1995), Assistant Professor of Mathematics, Director, Freshman Mathematics, B.S., Central Missouri State University, M.S., Ph.D., University of Kansas
- Carlson, Ron** (1986), Professor of English, Director, Creative Writing Program, B.A., M.A., University of Utah
- Carney, James D.** (1967), Professor Emeritus of Philosophy; B.A. equivalent, Northern Baptist Theological Seminary; M.A., Roosevelt University, Ph.D., University of Nebraska, Lincoln
- Carpenter, Elon D.** (1988), Associate Professor of Music, B.A., Denison University; M.A., Kent State University; Ph.D., University of Pennsylvania
- Carpenter, Ray W.** (1981), Professor of Chemical, Bio and Materials Engineering; Director, Science and Engineering of Materials; B.S., M.S., Ph.D., University of California, Berkeley
- Carr, Christopher** (1985), Professor of Anthropology, B.A., University of Illinois, M.A., Ph.D., University of Michigan
- Carroll, Kevin K.** (1975), Assistant Professor of History, B.A., Canisius College, M.A., Ph.D., Harvard University
- Carroll, Steven** (1985), Associate Professor of Statistics, B.S., Tuane University, M.S., Oregon State University, M.B.A., Ph.D., University of Oregon
- Carter, Carolyn S.** (1992), Assistant Professor of Social Work; B.A., Southern University; M.S.W., D.S.W., Tulane University
- Carter, Joseph R.** (1991), Professor of Business Administration; B.S., M.B.A., Northeastern University; Ph.D., Boston University
- Carter, Phillip L.** (1995), Professor of Purchasing and Logistics Management, Harold E. Fearon Chair, Purchasing Management, Director, Center for Advanced Purchasing Studies, B.S.E.E., Rose-Hulman Institute of Technology; M.B.A., D.B.A., Indiana University
- Carver, George L.** (1965), Professor Emeritus of Classical Languages; B.A., M.A., University of Texas, Austin, S.T.B., St. Mary's Seminary, Ph.D., St. Louis University
- Casanova, Ursula** (1987), Associate Professor of Educational Administration and Supervision and Educational Policy Studies, B.A., Hunter College, M.S., State University of New York, Brockport, Ph.D., Arizona State University
- Casavantes, Michael D.** (1990), Lecturer of Journalism and Telecommunication, B.A., University of Texas, El Paso, M.A., New Mexico State University
- Case, James L.** (1969), Professor of Speech and Hearing Science; B.S., Weber State College; M.S., Ph.D., University of Utah
- Castaneda, Eddie** (1990), Assistant Professor of Psychology; B.S., M.A., University of Texas, El Paso, Ph.D., University of Michigan
- Castle, Gregory** (1992), Assistant Professor of English; B.A., California State University, Fresno; M.A., Ph.D., University of California, Los Angeles
- Castro, Felipe G.** (1991), Associate Professor of Psychology, Director, Hispanic Research Center, B.A., University of California, Santa Barbara, M.S.W., University of California, Los Angeles, Ph.D., University of Washington
- Cavalliere, William A.** (1946), Professor Emeritus of Technology; B.A., M.A., Arizona State University
- Cavender, Gray** (1977), Professor of Justice Studies, B.S., University of Tennessee, M.S., Middle Tennessee State University; Ph.D., Florida State University; J.D., University of Tennessee, Knoxville
- Cayer, N. Joseph** (1980), Professor of Public Affairs; B.A., M.P.A., University of Colorado, Ph.D., University of Massachusetts, Amherst
- Cervený, Randall S.** (1986), Associate Professor of Geography, B.S., M.A., Ph.D., University of Nebraska, Lincoln
- Cesarotti, Evelyn L.** (1992), Assistant Professor of Nursing; B.S., University of West Florida; M.S., Ph.D., University of Arizona
- Cesiel, Kenneth H.** (1989), Faculty Associate of Manufacturing and Industrial Technology; B.S., M.A., Arizona State University
- Cesta, John R.** (1975), Associate Professor of Finance; B.S., Capital University, M.B.A., Ph.D., Florida State University
- Cevette, Michael J.** (1989), Adjunct Professor of Speech and Hearing Science, B.A., University of Nevada, Las Vegas; M.S., Utah State University, Ph.D., University of Utah
- Chakrabarti, Chaitali** (1990), Assistant Professor of Electrical Engineering; B.Tech., Indian Institute of Technology (India), M.S., Ph.D., University of Maryland, College Park
- Chalquest, Richard R.** (1971), Professor of Agribusiness and Resource Management, B.S., D.V.M., Washington State University, M.S., Ph.D., Cornell University
- Chamberlin, Ralph V.** (1986), Associate Professor of Physics and Astronomy, B.S., University of Utah; M.S., Ph.D., University of California, Los Angeles
- Chan, Kalok** (1990), Associate Professor of Finance, B.S., Chinese University of Hong Kong (Hong Kong); Ph.D., Ohio State University
- Chance, John K.** (1987), Professor of Anthropology, A.B., University of Pennsylvania, A.M., Ph.D., University of Illinois
- Chandler, Douglas E.** (1980), Professor of Zoology, B.S., University of Rochester, M.A., Johns Hopkins University, Ph.D., University of California, San Francisco
- Chartier, George M.** (1971), Associate Professor of Psychology; B.S., University of Illinois; M.A., Ph.D., University of Oregon
- Chasey, Allan D.** (1995), Assistant Professor of Construction; B.S., Arizona State University, M.S., Air Force Institute of Technology; Ph.D., Virginia Polytechnic Institute and State University
- Chasey, Eugene F.** (1965), Professor Emeritus of Education, B.S., Northwestern State College, M.A., Colorado State College; Ed.D., University of Wyoming
- Chassin, Laurie** (1979), Professor of Psychology, B.A., Brown University, M.S., Ph.D., Columbia University
- Chattopadhyay, Aditi** (1990), Associate Professor of Mechanical and Aerospace Engineering; M.S., Ph.D., Georgia Institute of Technology
- Chen, Stanley S.** (1967), Professor Emeritus of Engineering; Diploma, Taipei Institute of Technology (Taiwan), M.S., Ohio University, Ph.D., University of Wisconsin, Madison
- Childress, Nancy** (1991), Assistant Professor of Mathematics, B.S., B.S.Ed., M.S., Ph.D., Ohio State University
- Ching, Chee** (1989), Assistant Professor of Decision and Information Systems; B.B.A., National Taiwan University (Taiwan); M.S., University of South Carolina; Ph.D., Purdue University
- Chlistowa, Xenia** (1980), Professor Emeritus of Dance
- Choi, Jaehoon** (1989), Assistant Research Engineer, Telecommunication Research Center; B.S., Han Yang University (South Korea); M.S., Ph.D., Ohio State University
- Choi, Kwan-Yiu** (1987), Assistant Research Scientist, Center for Solid State Electronics Research; B.S., The Chinese University of Hong Kong (Hong Kong), M.S., Rutgers, The State University, Ph.D., Arizona State University
- Chou, Ju-Hsi** (1975), Professor of Art; B.A., University of Kentucky; M.A., Ph.D., Princeton University

- Christensen, George** (1975) Professor Emeritus of Architecture B Arch, Illinois Institute of Technology
- Christensen, Philip R.** 1987, Professor of Geology, B.S., M.S. Ph.D., University of California, Los Angeles
- Christian, Charles W.** 1985, Associate Professor of Accountancy, B.B.A., University of Georgia; J.D., University of Virginia, Ph.D., University of Georgia
- Christiansen, Kent** (1967) Professor Emeritus of Psychology in Education
- Christie, James F.** 1988, Professor of Reading Education B.A., University of California Berkeley, M.A., Syracuse University, Ph.D., Claremont Graduate School
- Christine, Ray O.** 1958, Professor Emeritus of Elementary Education; A.B., A.M., Northern Colorado University Ed.D., Arizona State University
- Christopher, F. Scott** 1986, Associate Professor of Family Resources and Human Development B.S., M.S., University of Nebraska, Ph.D., Oregon State University
- Chubrich, Robert E.** 1971, Professor Emeritus of Speech and Hearing Science; B.A., Grinnell College, M.A., Indiana University, Bloomington; Ph.D., State University of New York, Buffalo
- Church, Kathleen K.** 1969, Professor of Zoology, Vice Provost Office of the Senior Vice President and Provost, B.S., M.A., University of Utah, Ph.D., University of California Berkeley
- Cialdini, Robert B.** 1971, Regents Professor of Psychology B.S. University of Wisconsin Milwaukee, M.A., Ph.D., University of North Carolina Chapel Hill
- Claiborn, Charles D.** (1990) Professor of Counseling Education and Counseling Psychology, Academic Program Coordinator, Counseling Psychology, A.B. University of Missouri M.A., Ohio State University, Ph.D., University of Missouri
- Clark, Debra A., Maj.** 1994, Assistant Professor of Military Science, B.S., Florida State University
- Clark, Geoffrey A.** 1971, Professor of Anthropology, B.A., M.A. University of Arizona, Ph.D., University of Chicago
- Clark, James C.** 1978, Associate Research Professional, Chemistry and Biochemistry
- Clark, Robert C.** 1981, Professor of Music, B.Mus., Central Methodist College, S.M.M., Union Theological Seminary
- Clark, William Dennis** 1976, Associate Professor of Biology B.A., Sacramento State College, Ph.D., University of Texas
- Clark-Steffen, Laura** 1994, Assistant Professor of Nursing B.S., M.S., University of Missouri, Ph.D., Oregon Health Sciences University
- Clay, J. Eugene** 1993, Assistant Professor of Religious Studies, A.B., A.M., Ph.D., University of Chicago
- Clewell, Paul J.** 1988, Faculty Research Associate, Cancer Research Institute, B.S., University of Leicester England, Ph.D., University College, England
- Close, Richard A.** (1985), Adjunct Professor of Architecture, M Arch, University of Wisconsin, Milwaukee
- Clothier, Ronald R.** 1955, Professor Emeritus of Zoology, A.B., Fresno State College, M.A., Montana State University; Ph.D., University of New Mexico
- Cluff, Gordon L.** (1963), Professor Emeritus of Speech and Hearing Science, B.A., Arizona State University, M.S., Ph.D., Southern Illinois University
- Coates, Karen** 1983, Faculty Associate of Music B.M., Brigham Young University M.M., Arizona State University
- Cobas, José A.** 1975, Associate Professor of Sociology, B.A., Maryville College, M.A., University of Tennessee, Knoxville, Ph.D., University of Texas, Austin
- Cochran, Douglas** 1989, Associate Professor of Electrical Engineering, M.A., University of California, San Diego, Ph.D., Harvard University
- Cochran, Douglas L.** 1968, Professor Emeritus of Management, B.S., Ohio State University, M.B.A., Harvard University, Ph.D., University of Oregon
- Cochran, Jeffery K.** 1984, Associate Professor of Engineering; B.S.E., M.S.N.E., M.S.I.E., Ph.D., Purdue University
- Cochran, John A.** 1962, Professor Emeritus of Economics; A.B., Drake University, A.M., Ph.D., Harvard University
- Cocke, Robert D.** 1983, Associate Professor of Art; B.F.A., University of Arizona, M.A., M.F.A., University of Iowa
- Codell, Julie F.** 1991, Professor of Art, Director, School of Art, A.B., Vassar College, M.A., University of Michigan, M.A., Ph.D., Indiana University, Bloomington
- Coghlan, William A.** (1990), Adjunct Associate Professor of Engineering, B.S., Montana College of Mineral Science and Technology; M.S., Ph.D., Stanford University
- Cohen Williams, Anita G.** (1987), Assistant Librarian, Reference Service, B.A., University of California, Santa Cruz, M.L.S., University of Arizona
- Cohen, Herbert G.** 1978, Associate Professor of Elementary Education, Academic Program Coordinator, Elementary Education; B.S., Muhlenberg College, M.A., Hofstra University, Ph.D., University of Iowa
- Cohen, Stewart M.** 1989, Associate Professor of Philosophy, B.A., Wayne State University, M.A., University of California, Santa Barbara, Ph.D., University of Arizona
- Cohn, Sanford J.** (1979), Associate Professor of Special Education and Psychology in Education, B.A., M.Ed., Ph.D., Johns Hopkins University
- Colby, Arthur L.** 1965, Assistant Professor of English, B.A., University of Massachusetts Amherst, M.A., Ph.D., University of North Carolina, Chapel Hill
- Cole, Gerald A.** 1958, Professor Emeritus of Zoology, A.B., Middlebury College; M.S., St. Lawrence University, Ph.D., University of Minnesota, Twin Cities
- Cole, V. Scott** 1995, Faculty Associate of Construction, B.S., Arizona State University; M.S., Central Michigan University
- Coles, Jeffrey L.** 1994, Professor of Finance; B.A., Pomona College, Ph.D., Stanford University
- Collins, Daniel L.** 1959, Professor of Art; B.A., University of California Davis, M.A., Stanford University, M.F.A., University of California, Los Angeles
- Collins, Donald G.** 1989, Professor of Manufacturing and Industrial Technology B Arch, Virginia Polytechnic Institute and State University M.S., Ph.D., University of Illinois
- Collins, James P.** 1975, Professor of Zoology; Chair, Department of Zoology B.S., Manhattan College, M.S., Ph.D., University of Michigan
- Collofello, James S.** 1979, Professor of Computer Science and Engineering B.S., M.S., Northern Illinois University, Ph.D., Northwestern University
- Comeaux, Malcolm L.** 1969, Professor of Geography, B.A., University of Southern Louisiana, M.A., Southern Illinois University Carbondale, Ph.D., Louisiana State University, Baton Rouge

- Comfort, Joseph R.** (1981), Professor of Physics and Astronomy; Associate Chair, Department of Physics and Astronomy, A.B., Ripon College, M.S. Ph.D., Yale University
- Conrow, Jane A.** 1968 Associate Dean, Library Services; B.A., M.L.S., Indiana University, Bloomington
- Cook, Edward A.** 1985 Associate Professor of Planning and Landscape Architecture B.S.L.A., Washington State University; M.L.A., Utah State University
- Cook, Jeffrey** (1961) Regents' Professor of Architecture; B.Arch., University of Manitoba Canada, M.Arch., Pratt Institute
- Cook, Jodi A.** 1995, Clinical Assistant Professor of Speech and Hearing Science; B.A., Loyola College, Baltimore; M.Aud., University of South Carolina
- Cook, Paul** 1987 Lecturer of English; B.A., Northern Arizona University, M.A., Arizona State University; Ph.D., University of Utah
- Cook, Phil A.** (1963), Professor Emeritus of Education; B.A., Southwestern Oklahoma State College, M.A., Colorado State College; Ed.D., University of Kansas
- Cook, Suzanne M.** (1974), Associate Professor of Management; B.B.A., M.B.A., D.B.A., Texas Tech University
- Cooper, Kim** 1991, Assistant Professor of Zoology; M.S., Ph.D., University of Illinois
- Coor, Lattie F.** (1990), Professor of Public Affairs; President of the University, A.B., Northern Arizona University; M.A., Ph.D., Washington University
- Corbin, Charles B.** (1982), Professor of Exercise Science and Physical Education, B.S., University of New Mexico; M.S., University of Illinois Ph.D., University of New Mexico
- Corder, Brice W.** (1971), Professor of Exercise Science and Physical Education, Assistant Dean, Student Academic Affairs, College of Liberal Arts and Sciences; B.A., Lynchburg College; M.Ed., Ed.D., Temple University
- Corey, Constance H.** (1973), Librarian Emeritus; B.A., Denison University; M.L.S., University of Arizona, M.B.A., Arizona State University
- Corey, Frederick C.** 1987, Associate Professor of Communication, B.S., Central Michigan University, M.S., Southern Illinois University, Carbondale, Ph.D., University of Arizona
- Corman, Steven R.** (1987), Associate Professor of Communication; B.S., Illinois State University M.A., Ph.D., University of Illinois
- Corse, Taylor** 1989, Associate Professor of English; B.A., Florida State University; M.A., University of Michigan; Ph.D., University of Florida
- Cosand, Walter A.** 1976, Associate Professor of Music; B.M., M.M., University of Rochester
- Cota-Cárdenas, Margarita** (1981), Associate Professor of Spanish; B.A., California State University, Turlock, M.A., University of California, Davis, Ph.D., University of Arizona
- Couch, Sanford C.** 1962, Professor of Russian; B.A., M.A., Ph.D., University of Wisconsin Madison
- Coudert, Allison** 1989, Lecturer, University Honors College, B.A., Vassar College, Ph.D., University of London (England)
- Coudroglou, Alik** (1971), Professor of Social Work, B.A., College of St. Benedict, M.S.W., University of Minnesota, Twin Cities, D.S.W., Columbia University
- Counts, Richard** (1985) Faculty Associate of Public Affairs; A.B., Williams College; J.D., University of Chicago
- Coursen, Jerry** (1987), Adjunct Associate Professor of Bioengineering, B.S., M.S., Arizona State University; Ph.D., University of Arizona
- Cowgill, George L.** (1990), Professor of Anthropology, A.M., University of Chicago, Ph.D., Harvard University
- Cowles, David W.** (1990), Assistant Professor of Philosophy; B.A., University of Rochester; Ph.D., University of Massachusetts, Amherst
- Cowley, Anne P.** (1983), Professor of Physics and Astronomy; B.A., Wellesley College; M.S., Ph.D., University of Michigan
- Cowley, John M.** (1969), Regents' and Galvin Professor Emeritus of Physics and Astronomy, B.S., M.S., D.Sc., University of Adelaide (Australia); Ph.D., Massachusetts Institute of Technology
- Cox, Edward D.**, SFC, (1992), Instructor of Military Science
- Cox, Frank E.** (1972), Professor Emeritus of Technology; B.S.M.E., Purdue University; M.S.E., Arizona State University
- Cox, Jerry R.** (1984), Adjunct Associate Professor of Environmental Resources; B.S., M.S., New Mexico State University, Ph.D., University of Wyoming
- Craft, Elizabeth H.** (1982), Associate Administrative Professional; Director, Distance Learning Technology, College of Extended Education; B.F.A., Ohio University, M.A., Arizona State University
- Craft, John E.** (1973), Professor of Journalism and Telecommunication; B.F.A., M.A., Ph.D., Ohio University
- Cranmer, William H.** (1963), Professor Emeritus of Social Work; B.A., University of Akron; M.S., Case Western Reserve University
- Crawford, John E.** (1980), Associate Professor of Communication; B.A., Nebraska Wesleyan University, M.A., Sacramento State College, Ph.D., University of Southern California
- Creath, J. Richard** (1974), Professor of Philosophy; B.A., Knox College, M.A. (Phil.), M.A. (Hist./Phil.Sci.), Ph.D., University of Pittsburgh
- Creighton, Judith M.** (1967), Professor Emeritus of Family Resources and Human Development; B.S., University of Arizona; M.S., M.C., Arizona State University; Ph.D., University of Arizona
- Crittenden, W. Jackson** (1988), Associate Professor of Political Science, B.A., Tufts University, M.Ed., Harvard University, D.Phil., University of Oxford (England)
- Croft, Lee B.** (1973), Professor of Russian; B.S., Arizona State University; M.A., University of Arizona; Ph.D., Cornell University
- Cronin, John R.** (1966), Professor of Chemistry and Biochemistry; B.A., College of Wooster, Ph.D., University of Colorado
- Cronkite, Walter** (1986), Professor of Journalism and Telecommunication
- Croskrey, Wendy Ernst** (1994), Assistant Professor of Art, B.F.A., University of Minnesota, M.F.A., Ohio State University
- Cross, James** (1986), Adjunct Professor of Art; B.A., University of California, Los Angeles
- Cross, Suzanne** (1994), Assistant Professor of Social Work; B.S., Michigan State University, M.S.W., University of Michigan; Ed.D., Michigan State University
- Crouch, Beulah** (1953), Professor Emeritus of Education; B.A., M.A., Arizona State University
- Crouch, Peter E.** (1985), Professor of Engineering; Dean, College of Engineering and Applied Sciences; B.S., M.S., University of Warwick (England), Ph.D., Harvard University
- Crowder, Troy F.** (1970), Professor Emeritus of Journalism and Telecommunication, B.A., University of South Dakota; M.A., University of Iowa

- Crowe, Barbara J.** (1981), Professor of Music; Director, Music Therapy; B.M., M.M., Michigan State University
- Culbertson, Robert J.** (1991), Associate Professor of Physics and Astronomy; B.A., Kent State University; Ph.D., Pennsylvania State University
- Cummings, Lawrence T.** (1970), Professor Emeritus of Counselor Education; B.A., M.A., Arizona State University, Ed.D., University of California, Los Angeles
- Curran, Mark J.** (1968), Professor of Spanish and Portuguese; B.S., Rockhurst College, Ph.D., St. Louis University
- Cutler, Lorraine M.** (1991), Assistant Professor of Design; B.A., B.F.A., Arizona State University; M.A., University of Phoenix
- D'Andrea, Frank L.** (1972), Professor Emeritus of Music; B.A., M.A., Ed.D., Columbia University
- D'Angelo, Frank J.** (1970), Professor Emeritus of English; B.S., Loyola University, New Orleans; M.A., Tulane University; Ph.D., University of Nebraska, Lincoln
- Daane, Calvin J.** (1963), Professor Emeritus of Counselor Education; B.S., University of Wisconsin, Madison; M.A., Columbia University; Ed.D., Indiana University, Bloomington
- Dagger, Richard K.** (1976), Professor of Political Science, B.A., University of Missouri, St. Louis; Ph.D., University of Minnesota, Twin Cities
- Dahl, Jeannine** (1989), Professor Emeritus of Nursing; B.S., University of Kansas; M.A., Ed.D., University of Northern Colorado
- Dahl, Richard C.** (1966), Professor Emeritus of Law, B.A., B.L.S., University of California, Berkeley; J.D., Catholic University of America
- Dahl, Ronald D.** (1988), Associate Professor of Manufacturing and Industrial Technology; B.S., M.S., University of North Dakota, Ph.D., Iowa State University
- Daley, J. Michael** (1978), Professor of Social Work; B.S., Spring Hill College, M.S.W., St. Louis University, M.S., University of Pittsburgh, D.S.W., Tulane University
- Dalgleish, Donald D.** (1962), Professor of Military Science, B.A., Carleton College; M.A., Columbia University; Ph.D., University of Colorado
- Dallyn, Selwyn L.** (1983), Clinical Professional, Law; B.A., Graceland College; J.D., University of Iowa
- Dalton, Kevin Andrew** (1994), Lecturer, University Honors College; B.A., Columbia University, M.Phil., University of Oxford (England), Ph.D., University of Virginia
- Daneke, Gregory A.** (1982), Professor of Public Affairs, Business Administration and Environmental Studies; B.A., M.A., Brigham Young University, Ph.D., University of California, Santa Barbara
- Daniel, Norman E.** (1970), Associate Professor of Purchasing and Logistics Management; B.S., M.S., University of Tennessee, Knoxville, Ph.D., Indiana University
- Dannenfeldt, Karl H.** (1956), Professor Emeritus of History, Dean Emeritus, College of Liberal Arts and Sciences; A.B., Valparaiso University; M.A., Indiana University; Ph.D., University of Chicago
- Dantico, Marilyn** (1981), Associate Professor of Political Science, B.A., University of Illinois, M.A., Ph.D., Florida State University
- Darst, Paul W.** (1976), Professor of Exercise Science and Physical Education; B.S., M.S., University of Akron; Ph.D., Ohio State University
- Dasgupta, Partha** (1991), Associate Professor of Computer Science and Engineering, B.Tech., M.Tech., Indian Institute of Technology (India); Ph.D., State University of New York, Stony Brook
- Datta, Manjira** (1995), Assistant Professor of Economics, B.A., M.A., Jadavpur University (India); Ph.D., Cornell University
- Dauber, M. Robert** (1990), Visiting Clinical Professional, College of Law, B.A., University of California, Berkeley; J.D., Arizona State University
- Dauten, Joel J.** (1960), Professor Emeritus of Finance, B.S., M.S., Washington University; Ph.D., University of Iowa
- Davey, William G.** (1976), Associate Professor of Communication, B.A., Pennsylvania State University; M.A., Columbia University, Ph.D., Indiana University, Bloomington
- David, Julia Smith** (1995), Assistant Professor of Accountancy, B.A., M.B.A., Ph.D., Michigan State University
- Davidson, Elizabeth T.** (1986), Research Associate Professor of Zoology; B.S., Mount Union College, M.S., Ph.D., Ohio State University
- Davidson, Joseph K.** (1973), Professor of Engineering, B.M.E., M.Sc., Ph.D., Ohio State University
- Davis, Frank S.** (1978), Associate Research Professional, Chemistry and Biochemistry, B.S.E., Arizona State University
- Davis, George R.** (1980), Associate Professor of Engineering, B.S.E.E., M.S., University of Illinois, Ph.D., University of Arizona
- Davis, Joseph M.** (1975), Associate Professor of Real Estate, B.S., University of South Carolina, M.B.A., Texas A&I University, Ph.D., University of Georgia
- Davis, Keith** (1958), Professor Emeritus of Management, B.B.A., M.B.A., University of Texas, Ph.D., Ohio State University
- Davis, Mary C.** (1994), Assistant Professor of Psychology, B.S., University of Idaho; M.S., Ph.D., University of Pittsburgh
- Davis, Robert E.** (1959), Professor Emeritus of Communication; B.A., M.A., Ph.D., University of Illinois
- Davis, Sanford S.** (1953), Professor Emeritus of Counselor Education; A.B., B.S., Central Missouri State College, A.M., University of Missouri, Kansas City; Ed.D., University of Colorado
- Davis, Thomas J.** (1995), Professor of History, A.B., M.A., Ph.D., Columbia University, J.D., State University of New York, Buffalo
- Day, Thomas** (1995), Assistant Professor of Botany, B.S., Colorado State University, M.S., University of Idaho, Ph.D., Colorado State University
- de Marneffe, Peter** (1989), Assistant Professor of Philosophy, B.A., University of Massachusetts, Amherst, Ph.D., Harvard University
- de Matties, Nicholas** (1974), Associate Professor of Art; B.A., California State University, Long Beach; M.S., Illinois Institute of Technology
- Deach, Dorothy F.** (1967), Professor Emeritus of Physical Education; B.S., M.S., University of Illinois, Ph.D., University of Michigan
- Dean, Arthur G.** (1971), Associate Professor of Engineering, B.A., M.S., Texas Tech University; Ph.D., Texas A&M University
- DeBano, Leonard F.** (1983), Adjunct Associate Professor of Environmental Resources; B.S., Colorado State University, M.S., Utah State University; Ph.D., University of California, Berkeley
- Debenport, Sylvia** (1978), Professor Emeritus of Music, B.M.E., B.M., M.M., Indiana University, Bloomington
- DeFato, Rosalinda** (1970), Librarian, Reference Service, B.A., St. John's University, M.L.S., University of California, Los Angeles
- DeGraw, Bette F.** (1986), Associate Professor of Public Affairs, Dean, College of Extended Education, B.A., Thiel College, M.S.W., Rutgers, The State University, D.P.A., Arizona State University

- DeGraftenreid, Don** 1990, Senior Research Administrator, Center for Advanced Research in Transportation, Management, Technical Transportation Program, B.S.C.E., New Mexico State University
- Dellheim, Charles J.** 1980, Associate Professor of History, Director, Humanities Program, B.A., State University of New York, Binghamton, M.A., Ph.D., York University
- DeMars, James R.** 1951, Associate Professor of Music, B.A., Macalester College; M.A., Ph.D., University of Massachusetts, Amherst
- DeMassa, Thomas A.** 1966, Professor of Engineering, B.S.E.E., M.S.E.E., Ph.D., University of Michigan
- Demeke, Howard J.** 1962, Professor Emeritus of Education, A.B., San Francisco State College, M.S., Ed.D., University of Southern California
- DeSerpa, Allan C.** 1975, Professor of Economics, B.A., University of Santa Clara, Ph.D., University of California, Santa Barbara
- DeSilva, Patricia S.** 1988, Lecturer of Nursing, B.S., University of Southwestern Louisiana, M.S.H., Tulane University, Ph.D., University of Texas, Austin
- DesJardin, Margaret E.** 1949, Lecturer Emeritus of Dance
- Detrie, Thomas** 1954, Associate Professor of Art, B.F.A., M.F.A., Louisiana Tech University
- Dey, Sandwip** 1987, Associate Professor of Engineering, B.Tech., Banares Hindu University, India; M.S., Ph.D., Alfred University
- Dezelsky, Thomas L.** 1968, Associate Professor of Exercise Science and Physical Education, B.S., Central Michigan University, M.A., University of Michigan, H.S.D., Indiana University, Bloomington
- Dickerson, Sherry S.** 1986, Faculty Associate of Public Affairs, B.S., Lamar University, M.P.A., Arizona State University
- Dickinson, Sherry M.** 1995, Faculty Associate of Nursing, B.S., University of Arizona, M.S., University of Phoenix
- Di Gangi, Samuel** 1991, Associate Professor of Special Education, B.A., University of Pittsburgh, M.Ed., Ph.D., Arizona State University
- Dietrich, Suzanne Wagner** 1988, Associate Professor of Computer Science and Engineering, B.S., M.S., Ph.D., State University of New York, Stony Brook
- Ditsworth, Richard L.** 1959, Professor Emeritus of Engineering, B.S., M.S., Iowa State College; Ph.D., Michigan State University
- Dittert, Alfred E. Jr.** 1967, Professor Emeritus of Art of Design, B.A., M.A., University of New Mexico, Ph.D., University of Arizona
- Doak, R. Bruce** 1991, Professor of Physics and Astronomy, B.S., Cornell University, M.S., Ph.D., Massachusetts Institute of Technology
- Doan, Jerry** 1979, Professor of Music, B.M.E., M.M., North Texas State University, D.M.A., University of Michigan
- Doane, Winifred W.** 1919, Professor of Zoology, B.A., Hunte College, M.S., University of Wisconsin, Madison; Ph.D., Yale University
- Doebler, Bettie Anne** 1971, Professor Emeritus of English, Director, Interdisciplinary Humanities Program, B.A., M.A., Duke University, Ph.D., University of Wisconsin, Madison
- Dollin, Michael** 1986, Faculty Associate of Planning and Landscape Architecture, Urban Designer, Joint Urban Design Studio, B.S.L.A., University of Arizona
- Donelson, Kenneth L.** 1965, Professor of English, B.A., M.A., Ph.D., University of Iowa
- Donnelly, Aaron V.** 1967, Professor Emeritus of Engineering, B.S.E.E., M.S., University of Iowa, M.A., Columbia University, Ph.D., University of Iowa
- Doran, George** 1992, Senior Lecturer of Management, B.S., State University of New York, M.B.A., Duquesne University; Ph.D., New York University
- Dorman, Michael F.** 1976, Professor of Speech and Hearing Science, B.S., University of Washington, M.A., Hollis College, Ph.D., University of Connecticut
- Dorn, Ronald I.** 1988, Associate Professor of Geography, A.B., M.A., University of California, Berkeley, Ph.D., University of California, Los Angeles
- Dorsa, Edward** 1975, Associate Professor of Design, B.S., M.A., Ohio State University
- Dorson, William J.** 1966, Professor Emeritus of Engineering, B.Ch.E., M.Ch.E., Renfrew Polytechnic Institute, Ph.D., University of Connecticut
- Doty, Roxanne I.** 1966, Assistant Professor of Political Science, B.S., M.A., Arizona State University, Ph.D., University of Minnesota, Twin Cities
- Doubek, Dennis L.** 1976, Associate Research Specialist, Cancer Research Institute, B.S., University of Arizona; Ph.D., University of Illinois
- Douglas, Michael E.** 1980, Museum Professional, Curator of Collections, Zilbov, B.S., M.S., University of Louisville, Ph.D., University of Georgia
- Douglass, Amy A.** 1994, Adjunct Faculty of Anthropology, B.A., Wesley College, M.A., Syracuse University, Ph.D., Arizona State University
- Dover, C.J.** 1982, Adjunct Professor of Communication, B.A., Kent State University, M.A., Case Western Reserve University
- Dow, John** 1959, Professor of Physics and Astronomy, B.S., University of Notre Dame, Ph.D., University of Rochester
- Dowling, Thomas F.** 1988, Associate Professor of Zoology, B.S., University of Michigan, Ph.D., Wayne State University
- Downs, Catherine A.** 1985, Clinical Faculty of Clinical Laboratory Sciences, B.S., Arizona State University, M.A., Central Michigan University
- Downs, Floyd I.** 1955, Lecturer of Mathematics, A.B., Harvard University, M.A., Cornell University
- Doyel, David E.** 1985, Adjunct Professor of Anthropology, B.A., University of Arizona, M.A., Ph.D., California State University, Chico
- Doyle, Donald P.** 1962, Professor Emeritus of Theatre, B.A., Arizona State University, M.A., Northwestern University; Ph.D., University of Minnesota, Twin Cities
- Doyle, Roy P.** 1950, Professor Emeritus of Elementary Education, B.A., Arizona State University, M.A., Ed.D., Columbia University
- Drake, Jackson M.** 1974, Professor Emeritus of Education, B.S., M.S., Southern Illinois University, Carbondale; Ed.D., Columbia University
- Dreyfoos, Dale** 1994, Associate Professor of Music, B.M., Florida State University, M.M., University of Texas, Austin
- Dresskell, Nadine** 1946, Professor Emeritus of Music, B.S., Bowling Green State University, M.A., Columbia University
- Driscoll, Michael I.** 1971, Associate Professor of Mathematics, B.A., St. John's University, M.S., Ph.D., University of Arizona
- Droopad, Ravindranath** 1989, Assistant Research Scientist, Center for Solid State Electronics Research, Ph.D., Imperial College, University of London, England

- Duane, Drake D.** (1987), Adjunct Professor of Speech and Hearing Science; A.B., University of Michigan, M.D., Wayne State University
- Dubie, Jeannine Savard** (1990), Assistant Professor of English, B.S., State University of New York, Plattsburg; M.A., University of New Hampshire
- Dubie, Norman** (1978), Regents' Professor of English; B.A., Goddard College, M.F.A., University of Iowa
- Dudek, Leona M.** (1960), Professor Emeritus of Education, B.Ed., National College of Education, M.A., Arizona State University
- Duffy, Dennis M.** (1977), Associate Professor of Engineering; B.S., M.S., Ph.D., University of Arizona
- Dugan, Jeanne** (1994), Lecturer of English; B.A., University of Michigan, M.A., Ph.D., Arizona State University
- Dumka, Larry E.** (1991), Assistant Professor of Family Resources and Human Development; B.A., University of Manitoba (Canada); M.A., Simon Fraser University (Canada), Ph.D., Purdue University
- Duncan, Kate C.** (1991), Associate Professor of Art, B.A., M.A., University of New Mexico; Ph.D., University of Washington
- Dundas, Mary Jane** (1975), Associate Professor of Legal and Ethical Studies; B.A., California State University, Long Beach, J.D., Loyola Marymount University
- Durand, Barbara A.** (1992), Professor of Nursing, Dean, College of Nursing; B.S., College of St. Teresa; M.S., University of California, San Francisco; Ed.D., University of San Francisco
- Durrenberger, Robert W.** (1971), Professor Emeritus of Geography; B.S., Moorhead State College; B.S., California Institute of Technology, M.S., University of Wisconsin, Madison; Ph.D., University of California, Los Angeles
- Dwyer, Karen** (1994), Lecturer of English, B.A., Lamar University, M.A., Ph.D., Purdue University
- Eck, Roger D.** (1970), Professor of Decision and Information Systems; B.S.Ch.E., Clarkson College of Technology, M.B.A., University of New Mexico, Ph.D., Tulane University
- Eckert, Thomas W.** (1971), Professor of Art; B.A., M.F.A., Arizona State University
- Edelsky, Carole** (1976), Professor of Elementary Education; B.S., University of Cincinnati; Ph.D., University of New Mexico
- Eder, James F. Jr.** (1975), Professor of Anthropology, B.S., California Institute of Technology; M.A., Ph.D., University of California, Santa Barbara
- Edwards, Gus** (1988), Associate Professor of Theatre
- Edwards, John L.** (1964), Professor of Reading and Library Science; Executive Director, Independent Study by Correspondence, College of Extended Education; B.S., Ball State University, M.A., Ed.D., Arizona State University
- Edwards, Mark R.** (1978), Professor of Agribusiness and Resource Management; B.S.M.E., United States Naval Academy, M.B.A., D.B.A., Arizona State University
- Edwards, Marvin J.** (1959), Professor Emeritus of Technology; B.S., M.A., Arizona State University
- Eeds, Maryann H.** (1975), Associate Professor of Reading and Library Science, B.S., California State University, Sacramento; Ph.D., University of Oregon
- Eisenberg, Nancy H.** (1976), Regents' Professor of Psychology; B.A., University of Michigan, M.A., Ph.D., University of California, Berkeley
- Ekmanis, Rolfs** (1963), Professor of Russian; B.A., M.A., University of Wisconsin, Madison, Ph.D., Indiana University, Bloomington
- El Diasty, Ramy** (1989), Professor of Architecture, B.Sc., University of Alexandria (Egypt), M.Arch., McGill University (Canada), Ph.D., Concordia University (Canada)
- El-Ghazaly, Samir M.** (1988), Associate Professor of Electrical Engineering; B.S.E.E., M.S., Cairo University (Egypt), Ph.D., University of Texas, Austin
- El-Sharawy, El-Badawy** (1989), Associate Professor of Electrical Engineering; B.S.E., M.S.E., Mansoura University (Egypt); Ph.D., University of Massachusetts, Amherst
- Elgot-Drapkin, Jennifer J.** (1989), Assistant Professor of Computer Science and Engineering, B.A., University of Virginia, M.S., Ph.D., University of Maryland
- Elliott, Charles S.** (1989), Director, Center for Professional Development, College of Engineering and Applied Sciences, B.M.E., General Motors Institute, M.S., Indiana University, Bloomington, Ph.D., Michigan State University
- Ellis, Robert H.** (1962), Professor Emeritus of Journalism and Telecommunication, B.A., Arizona State University, M.A., Case Western Reserve University
- Ellman, Ira Mark** (1978), Professor of Law, B.A., Reed College; M.A., University of Illinois, J.D., University of California, Berkeley
- Ellner, Anthony Jr.** (1960), Professor Emeritus of Architecture; B.A., City University of New York, M.A., Columbia University; M.Arch., Yale University
- Ellram, Lisa M.** (1990), Assistant Professor of Purchasing and Logistics Management, B.S.B., M.B.A., University of Minnesota, Twin Cities, Ph.D., Ohio State University
- Elman, Miriam Fendius** (1995), Assistant Professor of Political Science, B.A., M.A., Hebrew University, Ph.D., Columbia University
- Ellsworth, Lola M.** (1938), Professor Emeritus of Family Resources and Human Development, B.S., Brigham Young University; M.A., Columbia University
- Elmore, James W.** (1949), Professor Emeritus of Planning and Landscape Architecture; Dean Emeritus, College of Architecture and Environmental Design; A.B., University of Nebraska; M.S., Columbia University
- Elser, James J.** (1990), Assistant Professor of Zoology, B.S., University of Notre Dame; M.S., University of Tennessee, Knoxville, Ph.D., University of California, Davis
- Engel, Glorianne** (1982), Associate Professor of Theatre, B.F.A., University of Arizona; M.A., Ph.D., University of Pittsburgh
- Engelen, Rodney** (1992), Faculty Associate of Planning and Landscape Architecture, B.S., University of Minnesota; M.C.P., Harvard University
- Engelhardt, Florence P.** (1965), Professor Emeritus of Social Work, B.A., College of Mount St. Vincent, M.S.S., Fordham University
- English, William S.** (1962), Professor Emeritus of Music; B.M., Washburn University of Topeka, M.A., Ph.D., George Peabody College
- Enz, Billie J.** (1990), Assistant Administrative Professional, Education, Director, Professional Field Experiences, M.A., Ph.D., Arizona State University
- Erickson, Mary L.** (1990), Professor of Art; B.F.A., University of Illinois, M.A., Ph.D., Ohio State University

- Erno, Richard B.** (1957–62, 1963), Professor Emeritus of English; B.A., Michigan State University, M.A., University of Denver, Ph.D., University of Minnesota, Twin Cities
- Ernst, Wendy** (1994), Assistant Professor of Art, B.F.A., University of Minnesota, Minneapolis; M.A., Ohio State University
- Escobar, Edward J.** (1993), Associate Professor of History, Director, Chicana/Chicano Studies; B.A., California State University, Dominguez Hills; M.A., Ph.D., University of California, Riverside
- Espinoza, Dula J.** (1990), Assistant Professor of Sociology; B.S., University of Texas, El Paso; M.A., Ph.D., University of California, Santa Barbara
- Etter, Patricia A.** (1988), Associate Archivist, Archives and Manuscripts, B.A., California State University, Long Beach, M.L.S., University of Arizona
- Evans, Donovan L.** (1966), Professor of Engineering, Director, Center for Innovation in Engineering Education, B.S.M.E., University of Cincinnati, Ph.D., Northwestern University
- Evans, John X.** (1964), Professor of English, B.A., Holy Cross College; M.A., Ph.D., Yale University
- Eveland, Charles** (1974), Professor Emeritus, School of Health Administration and Policy, B.S., University of Maryland, M.S., Baylor University, Ph.D., University of Michigan
- Ewing, Alison** (1993), Law Librarian, Circulation/Reference; B.A., M.L.S., University of Michigan
- Eyring, LeRoy** (1961), Regents' Professor Emeritus of Chemistry and Biochemistry; B.S., University of Arizona, Ph.D., University of California, Berkeley
- Faas, Larry A.** (1967), Professor of Special Education, Assistant Director, Division of Curriculum and Instruction; B.S., Iowa State University; M.A., Colorado State College, Ed.D., Utah State University
- Fabes, Richard A.** (1983), Professor of Family Resources and Human Development, B.A., University of Colorado, M.S., Ph.D., Oklahoma State University
- Fabricius, William** (1990), Associate Professor of Psychology, B.A., Boston College, M.S., Wheelock College, Ph.D., University of Michigan
- Facinelli, Diane A.** (1993), Lecturer, University Honors College; B.A., M.A., Ph.D., Arizona State University
- Faeth, Stanley H.** (1980), Professor of Zoology, B.S., M.S., University of Cincinnati, Ph.D., Florida State University
- Fafitis, Apostolos** (1984), Associate Professor of Engineering, B.S. Eng., Aristotle on University of Thessaloniki (Greece), M.Eng., South Dakota School of Mines and Technology; Ph.D., Northwestern University
- Fahlman, Betsy** (1988), Associate Professor of Art, B.A., Mount Holyoke College, M.A., Ph.D., University of Delaware
- Faith, Roger L.** (1981), Professor of Economics, B.A., St. Mary's College of California, M.A., Ph.D., University of California, Los Angeles
- Falconer, Steven E.** (1989), Associate Professor of Anthropology; B.A., Washington State University, M.A., Ph.D., University of Arizona
- Fall, Patricia L.** (1989), Assistant Professor of Geography, B.A., Prescott College; M.S., Ph.D., University of Arizona
- Faltis, Christian J.** (1991), Professor of Multicultural Education, B.A., San Francisco State University; M.A., San Jose State University; M.A., Ph.D., Stanford University
- Faltz, Leonard M.** (1979), Associate Professor of Computer Science and Engineering, B.S., City University of New York; M.S., Harvard University; Ph.D., University of California, Berkeley
- Fan, Genghua** (1990), Associate Professor of Mathematics, Masters, Institute of Systems Science (China); M.A., Chinese Academy of Science (China); Ph.D., University of Waterloo (Canada)
- Farber, Bernard** (1974), Professor Emeritus of Sociology; Interim Chair, Department of Sociology, A.B., Roosevelt University, A.M., Ph.D., University of Chicago
- Fargotstein, Barbara** (1988), Faculty Associate of Nursing, B.S., B.S.N., Arizona State University, M.N., University of California, Los Angeles
- Farin, Gerald** (1987), Professor of Computer Science and Engineering, B.A., M.A., Ph.D., University of Braunschweig (West Germany)
- Farmer, Frank D.** (1970), Associate Professor of Mathematics, B.A., M.A., University of California, Riverside, Ph.D., University of Washington
- Farris, Martin T.** (1957), Regents' Professor Emeritus of Purchasing and Logistics Management; B.A., M.A., University of Montana, Ph.D., Ohio State University
- Fausel, Donald F.** (1969), Associate Professor of Social Work, Associate Dean, School of Social Work; A.B., S.T.B., S.T.L., St. Mary's University; M.S.W., Fordham University, D.S.W., Columbia University
- Faustini, Antony A.** (1983), Associate Professor of Computer Science and Engineering; B.S., Ph.D., University of Warwick (England)
- Fearon, Harold E.** (1961), Professor Emeritus of Purchasing Management, National Association of Purchasing Management Professor; Director, Center for Advanced Purchasing Studies; B.S., M.B.A., Indiana University, Ph.D., Michigan State University
- Fehr, Fred S.** (1971), Associate Professor of Psychology, B.S., University of Wisconsin, Madison, M.A., Ph.D., Washington University
- Feldhaus, Anne** (1981), Professor of Religious Studies, B.A., Manhattanville College; Ph.D., University of Pennsylvania
- Feldman, Patricia A.** (1990), Assistant Administrative Professional, College of Extended Education, Director, Instructional Programs, Director, Correspondence Study, B.S., Colorado State University, M.Ed., Colorado State University
- Feldsher, Bernard R.** (1989), Assistant Professor of Aerospace Studies, B.A., Washington State University, M.S., Golden Gate University
- Feldstein, Alan** (1970), Professor of Mathematics, B.A., Arizona State University; Ph.D., University of California, Los Angeles
- Feller, Carolyn M.** (1972), Professor Emeritus of Nursing, B.S.N., M.S., Arizona State University; Ph.D., Texas Woman's University
- Feller, Joseph M.** (1987), Professor of Law, B.A., Harvard University; Ph.D., University of California, Berkeley; J.D., Harvard University
- Fenske, Robert H.** (1974), Professor of Higher Education, Academic Program Coordinator, Higher Education, B.S., M.S., Ph.D., University of Wisconsin, Madison
- Fernando, Harindra** (1984), Professor of Mechanical and Aerospace Engineering, Director, Center for Environmental Fluid Dynamics, B.Sc., University of Sri Lanka (Sri Lanka), M.A., Ph.D., Johns Hopkins University
- Ferrall, J. Eleanor** (1969), Librarian Emeritus, Reference Service, A.B., Heidelberg College, M.A., Arizona State University

- Ferrara, Carla** (1995), Instructor of Italian; B.A., University of Rome (Italy); M.A., University of Toronto
- Ferraro, Kathleen** (1982), Associate Professor of Women's Studies; B.A., Case Western Reserve University; M.A., Ph.D., Arizona State University
- Ferrin, Bruce G.** (1991), Assistant Professor of Purchasing and Logistics Management, B.A., Monmouth College, M.S., Iowa State University, Ph.D., Pennsylvania State University
- Ferris, Jean** (1985), Associate Professor of Music: Coordinator, Undergraduate Advisement, B.M., University of Michigan; M.A., Arizona State University
- Ferry, David K.** (1983), Regents' Professor of Electrical Engineering, B.S.E.E., M.S.E.E., Texas Technological College; Ph.D., University of Texas, Austin
- Fessenden, Tracy** (1994), Assistant Professor of Religious Studies; B.A., Yale University, Ph.D., University of Virginia
- Fewell, Jennifer H.** (1993), Assistant Professor of Zoology, B.A., Cornell University, M.A., Ph.D., University of Colorado
- Fields, Darell W.** (1992), Assistant Professor of Architecture; B.S., University of Texas, Arlington; M.Arch., Harvard University
- Fields, Kathleen A.** (1992), Visiting Instructor of Architecture, B.S., University of Texas, Arlington; M.Arch., Harvard University
- Figueira-McDonough, Josephina** (1990), Professor of Justice Studies, B.S., University of Lisbon (Portugal), M.S.W., Ph.D., University of Michigan
- Filley, Richard D.** (1985), Associate Administrative Professional; Director, ASU Industrial Fellows Program, B.S., University of Washington
- Finch, A. Joyce** (1965), Professor Emeritus of Nursing, B.S.N., Augustana College, M.S., University of Colorado; Ph.D., University of Texas, Austin
- Findler, Nicholas V.** (1982), Professor of Computer Science and Engineering, B.Eng., Ph.D., Budapest University for Technical Sciences (Hungary)
- Finer, Neal** (1977), Professor Emeritus of Secondary Education, B.A., University of Houston, M.A., University of the Americas (Mexico), Ph.D., University of Texas, Austin
- Fink, Jonathan** (1982), Professor of Geology, B.A., Colby College Ph.D., Stanford University
- Fink, Raymond R.** (1958), Professor Emeritus of Art; B.A.E., School of The Art Institute of Chicago, M.S.A.E., Illinois Institute of Technology
- Firestone, Melvin M.** (1968), Associate Professor of Anthropology; B.A., University of New Mexico; M.A., Ph.D., University of Washington
- Firestone, Sharon A.** (1977), Law Librarian, Acquisitions and Serials; B.A., M.L.S., University of Washington, M.A., Arizona State University
- Fish, Rebecca** (1994), Assistant Professor of Planning and Landscape Architecture, B.A., M.Arch., University of California, Berkeley
- Fisher, Marvin M.** (1958), Professor Emeritus of English, A.B., A.M., Wayne University; Ph.D., University of Minnesota, Twin Cities
- Fisher, Teresa** (1995), Assistant Professor of Psychology in Education, B.A., M.A., Ph.D., University of Illinois, Urbana Champaign
- Fisher, Stuart G.** (1976), Professor of Zoology, B.S., M.A., Wake Forest College; Ph.D., Dartmouth College
- Fisk, R. Leighton** (1979), Adjunct Professor of Bioengineering; B.S., M.S., Ph.D., University of Alberta, Canada
- Fitch, Gregory W.** (1974), Professor of Philosophy; B.A., Western Washington State College, M.A., Ph.D., University of Massachusetts, Amherst
- Flaherty, Richard E.** (1978), Professor of Accountancy, B.S., M.S., Ph.D., University of Kansas; C.P.A., Kansas
- Fleming, Robert C.** (1974), Professor of Music, Assistant Director of Bands; B.S., Indiana University of Pennsylvania, M.F.A., Carnegie Mellon University; Ph.D., Southern Illinois University, Carbondale
- Flemister, Michael Gilbert** (1995), Assistant Professor of Educational Media and Computers, B.S., Valparaiso University, M.A., Central Michigan University, Ph.D., University of Illinois Urbana Champaign
- Fletcher, Grant** (1956), Professor Emeritus of Music, B.M., Illinois Wesleyan University; M.M., University of Michigan; Ph.D., University of Rochester
- Flores, Alfinio** (1992), Associate Professor of Mathematics Education; B.Sc., M.Sc., National University of Mexico (Mexico); Ph.D., Ohio State University
- Flores, Lisa A.** (1995), Assistant Professor of Communication; B.A., Berry College; M.A., Northern Illinois University; Ph.D., University of Georgia
- Florschuetz, Leon W.** (1964), Professor Emeritus of Engineering, B.S., M.S., Ph.D., University of Illinois
- Fluekiger, Charles N., Capt.** (1994), Assistant Professor of Military Science; B.S., United States Military Academy, West Point
- Flynn, Anna E.** (1993), Senior Lecturer of Purchasing and Logistics Management, B.A., University of Notre Dame, M.B.A., Arizona State University
- Flys, Michael J.** (1975), Professor of Spanish, Licenciado en Filosofia y Letras, Doctor en Filosofia y Letras, University of Madrid, Spain
- Foard, Fumiko** (1990), Lecturer of Languages and Literatures; B.A., Keio Gijuku University (Japan), M.A., Arizona State University
- Foard, James H.** (1977), Associate Professor of Religious Studies; B.A., College of Wooster; M.A., Ph.D., Stanford University
- Follet, Robert E.** (1995), Associate Librarian: Head, Music Library, B.Mus., Oberlin College, M.Mus., University of Illinois; M.L.S., University of Texas, Austin
- Foley, Thomas A.** (1984), Professor of Computer Science and Engineering, B.S., M.A., Ph.D., Arizona State University
- Fordemwalt, James N.** (1987), Associate Professor of Electronics and Computer Technology, B.S., M.S., University of Arizona, Ph.D., Iowa State University of Science and Technology
- Forsyth, Ben R.** (1992), Professor of Health Administration and Policy, Vice President and Provost, ASU West; Interim Provost, ASU East; Senior Executive Assistant to the President; M.D., New York University College of Medicine
- Foster, David William** (1966), Regents' Professor of Spanish, B.A., M.A., Ph.D., University of Washington
- Foster, John B.** (1988), Adjunct Professor of Chemistry and Biochemistry, B.S., California Institute of Technology; M.A., University of California, Berkeley
- Fouquette, Martin J. Jr.** (1965), Associate Professor of Zoology, B.A., M.A., Ph.D., University of Texas, Austin
- Fox, Peter** (1990), Assistant Professor of Civil Engineering, B.S., M.S., Ph.D., University of Illinois

- Fowler, John W.** (1995), Assistant Professor of Industrial and Management Systems Engineering, B.S., M.S., Ph.D., Texas A & M University
- Francis, Karl E.** (1993), Adjunct Professor of Geography, B.S., Pennsylvania State University; M.S., Oregon State University, Ph.D., University of Wisconsin, Madison
- Frasch, Wayne D.** (1989), Associate Professor of Botany, B.A., Hope College, Ph.D., University of Kentucky
- Frasier, James E.** (1963), Professor Emeritus of Education, B.A., University of Northern Colorado; M.A., University of Michigan; Ed.D., University of Northern Colorado
- Freeman, Donald J.** (1989), Professor of Education: Academic Program Coordinator, Learning and Instructional Technology, B.A., Grinnell College, M.A., Ph.D., Michigan State University
- Freund, John E.** (1957), Professor Emeritus of Mathematics, B.A., M.A., University of California, Los Angeles; Ph.D., University of Pittsburgh
- Fritzemeyer, Joseph R.** (1973), Professor Emeritus of Accountancy, B.B.A., Baylor University, M.B.A., D.B.A., Indiana University, C.P.A., Texas
- Fronske, Jeanne Otis** (1975), Professor of Art; B.A., DePauw University, B.F.A., Denison University; M.F.A., Ohio State University
- Frost, Melvin Jesse** (1965), Professor Emeritus of Geography, B.S., Arizona State University; M.S., Brigham Young University, Ph.D., University of Florida
- Frost, Michael D.** (1995), Faculty Associate of Construction; B.S., M.S., Arizona State University
- Fry, Harold** (1958), Professor Emeritus of Engineering; B.S., Colorado State University, M.E., University of Wyoming, M.S., University of Colorado
- Fry, Warren D.** (1974), Learning Resources Specialist; Associate Dean, Video Resources; B.A., Iowa State Teachers College, M.A., Arizona State University
- Fuchs, Jacob** (1951), Professor of Chemistry and Biochemistry, B.A., New York University; M.S., Ph.D., University of Illinois
- Fuchs, Rachel G.** (1983), Professor of History; B.A., M.A., Boston University, Ph.D., Indiana University
- Fullerton, Bill J.** (1958), Professor Emeritus of Education; B.S., Northwestern Oklahoma State College, Ed.M., D.Ed., University of Oklahoma
- Fullinwider, S. Pendleton** (1967), Associate Professor of History; B.S., United States Naval Academy, M.S., Ph.D., University of Wisconsin, Madison
- Furnish, Dale B.** (1970), Professor of Law; A.B., Grinnell College; J.D., University of Iowa, LL.M., University of Michigan
- Furuta, Kenneth** (1990), Assistant Librarian, Government Documents; A.B., University of California, Riverside, M.A., University of North Carolina, Chapel Hill, M.Admin., University of California, Riverside; M.L.S., University of Arizona
- Gaffney, Philip D.** (1957), Professor Emeritus of Education, B.S., Northern Illinois State University; M.A., Ph.D., State University of Iowa
- Gaines, Sylvia W.** (1972), Professor Emeritus of Anthropology; B.A., M.A., Ph.D., Arizona State University
- Gale, Betty J.** (1982), Associate Professor of Nursing, B.S.N., M.S., Arizona State University; D.N.Sc., University of San Diego
- Galician, Mary-Lou** (1983), Associate Professor of Journalism and Telecommunication; B.A., Long Island University, Brooklyn; M.S., Syracuse University; Ed.D., Memphis State University
- Galindo, Leticia** (1990), Assistant Professor of Languages and Literatures; B.A., Angelo State University; M.A., Ph.D., University of Texas, Austin
- Gallinger, George W.** (1977), Associate Professor of Finance; B.A., Waterloo Lutheran University (Canada); M.B.A., York University (Canada), Ph.D., Purdue University
- Gammage, Grady Jr.** (1990), Faculty Associate of Law and Planning and Landscape Architecture; B.A., Occidental College, J.D., Stanford University
- Garcia, Antonio A.** (1989), Associate Professor of Engineering; B.S., Rutgers, The State University, Ph.D., University of California, Berkeley
- Garcia, Nelda C.** (1973-75, 1986), Professor Emeritus of Management Communication, B.S., M.A., Texas Woman's University, Ph.D., Michigan State University
- Garcia-Fernandez, Carlos** (1990), Assistant Professor of Languages and Literatures, M.A., University Pontificia of Salamanca (Spain); M.A., Ph.D., University of California, Davis
- Gardner, Carl L.** (1994), Associate Professor of Mathematics; B.A., Duke University, Ph.D., Massachusetts Institute of Technology
- Garrison, Eleanor** (1973), Assistant Professor of Nursing; B.S.N., M.S.N., Wayne State University
- Garrity, Marjorie L.** (1975), Assistant Professor of Nursing, Diploma, Vassar Brothers Hospital; B.S., University of Bridgeport, M.S., Case Western Reserve University
- Gasowski, Ronald E.** (1971), Professor of Art; B.S.D., University of Michigan, M.F.A., University of Washington
- Geiss, Candis Whitecraft** (1995), Senior Lecturer of Management Communication; B.S., M.A., Ed.D., Arizona State University
- Gentrup, William F.** (1991), Assistant Director, Arizona Center for Medieval and Renaissance Studies, B.A., M.A., Ph.D., Arizona State University
- Gerehoff, Joel** (1978), Associate Professor of Religious Studies, B.A., New York University, Ph.D., Brown University
- Gerdes, Karen E.** (1995), Assistant Professor of Social Work; B.S., Florida State University; M.S.W., Brigham Young University; Ph.D., Florida State University
- Gerkin, Richard D.** (1991), Faculty Associate of Manufacturing and Industrial Technology, B.S., Northern Arizona University; M.D., University of Arizona
- Gerking, Shelby D.** (1974), Professor Emeritus of Zoology, A.B., DePauw University, Ph.D., Indiana University, Bloomington
- Gerlach, Vernon S.** (1963), Professor Emeritus of Education; B.A., Wayne State University, M.A., University of Minnesota, Twin Cities, Ed.D., Arizona State University
- Gesell, Laurence E.** (1984), Professor of Aeronautical Technology; B.A., Upper Iowa University, M.P.A., University of San Francisco; Ph.D., Arizona State University
- Ghosh, Sumit** (1995), Associate Professor of Computer Science and Engineering; B.Tech., Indian Institute of Technology (India); M.S., Ph.D., Stanford University
- Gibbs, Christine** (1980), Faculty Associate of Public Affairs; B.A., University of Arizona; M.P.A., Arizona State University
- Gibbs, W.R.** (1987), Adjunct Professor of Physics and Astronomy, B.S., M.A., University of Texas; Ph.D., William Marsh Rice University

- Gibney, John** (1992), Adjunct Assistant Professor, Chemical Bio and Materials Engineering; B.S., St Peter's College, MD, New Jersey College of Medicine
- Gieschen, Donald W.** (1959), Professor Emeritus of Philosophy, B.S., Northwestern University; M.A., Ph.D., University of Minnesota, Twin Cities
- Giffin, Frederick C.** (1967), Professor of History; B.A., Denison University; M.A., Ph.D., Emory University
- Gill, George A.** (1966), Professor Emeritus of Education; B.S., M.A., Arizona State University
- Gillingwater, Denis** (1973), Professor of Art, B.F.A., M.F.A., University of Cincinnati
- Gisolo, Margaret** (1954), Professor Emeritus of Dance, B.S., Indiana State University, Terre Haute, M.A., New York University
- Glass, Gene V.** (1986), Professor of Educational Policy Studies and Psychology in Education, Academic Program Coordinator, Educational Policy Studies; B.A., University of Nebraska, M.S., Ph.D., University of Wisconsin
- Glass, Margaret F.** (1992), Adjunct Professor of Anthropology, B.A., M.A., University of Arizona; Ph.D., University of Calgary
- Glau, Gregory R.** (1994), Academic Professional of English; B.A., University of Arizona, M.A., Northern Arizona University; Ph.D., University of Arizona
- Glausinger, William S.** (1972), Professor of Chemistry and Biochemistry; B.S., Miami University, Ph.D., Cornell University
- Glick, Milton D.** (1991), Professor of Chemistry and Biochemistry; Senior Vice President and Provost, A.B., Augusta College; Ph.D., University of Wisconsin, Madison
- Glick, Paul C.** (1982), Adjunct Professor of Sociology, B.A. DePauw University; M.A., Ph.D., University of Wisconsin, Madison
- Glick, William H.** (1995), Professor of Management, Chair, Department of Management; A.B., University of Michigan, Ph.D., University of California, Berkeley
- Gober, Patricia A.** (1975), Professor of Geography, B.S., University of Wisconsin, Whitewater, M.A., Ph.D., Ohio State University
- Godfrey, Donald G.** (1988), Professor of Journalism and Telecommunication; B.S., Weber State College; M.S., University of Oregon; Ph.D., University of Washington
- Goggin, Maureen D.** (1994), Assistant Professor of English, B.S., M.A., Northeastern University
- Goldberg, Beckian F.** (1990), Assistant Professor of English, B.A., M.A., Arizona State University; M.F.A., Vermont College
- Goldberg, David** (1990), Professor of Justice Studies, Director, School of Justice Studies, B.A., M.A., University of Cape Town (South Africa), Ph.D., City University of New York
- Goldinger, Stephen D.** (1992), Assistant Professor of Psychology; B.A., Ph.D., Indiana University, Bloomington
- Goldstein, Elliott S.** (1974), Associate Professor of Zoology; B.S., University of Hartford, M.S., Ph.D., University of Minnesota, Twin Cities
- Golen, Steven P.** (1984), Associate Professor of Accountancy; B.S., M.A., Western Kentucky University, Ph.D., Arizona State University
- Golshani, Forouzan** (1984), Professor of Computer Science and Engineering, B.S., Arya Mehr University of Technology (Iran); M.S., Ph.D., University of Warwick (England)
- Gomez-Mejia, Luis R.** (1989), Professor of Management; B.A., M.A., Ph.D., University of Minnesota, Twin Cities
- Gomez, Reynaldo A.** (1980), Associate Professor of Early Childhood Education; Academic Program Coordinator, Early Childhood Education B.A., Southwest Texas State University, M.Ed., Stephen F. Austin State University, Ph.D., Pennsylvania State University
- Gonzales, Nancy A.** (1992), Assistant Professor of Psychology; B.S., Arizona State University, M.S., Ph.D., University of Washington
- Gonzalez-Santin, Edwin** (1979), Academic Professional, School of Social Work, B.A., Cameron State College, M.S.W., Arizona State University
- Goo, Benjamin** (1955), Professor Emeritus of Art; B.F.A., University of Iowa; M.F.A., Cranbrook Academy of Art
- Gooding, Elmer R.** (1967), Professor of Economics; B.S., McPherson College; M.A., Ph.D., University of Kansas
- Goodman, Zilla Jane** (1995), Instructor of Hebrew, B.A., M.A., University of Capetown
- Gordon, Leonard** (1967), Professor of Sociology; Associate Dean, Academic Programs, College of Liberal Arts and Sciences, B.A., Wayne State University; A.M., University of Michigan; Ph.D., Wayne State University
- Gordon, Rena J.** (1988), Adjunct Professor of Geography; B.S., Wayne State University; M.A. (Social and Philosophical Foundations of Education), M.A. (Geography), Ph.D., Arizona State University
- Gordon, Richard S.** (1980), Professor of Agribusiness and Resource Management, A.B., University of Rochester; M.A., Harvard University, Ph.D., Massachusetts Institute of Technology
- Gormly, Eric K.** (1994), Assistant Professor of Journalism and Telecommunication; B.Journ., University of Texas, Austin, M.A., University of Missouri, Columbia, Ph.D., University of Texas, Austin
- Gorur, Ravi S.** (1987), Associate Professor of Electrical Engineering; B.S., Bangalore University (India), M.S., Indian Institute of Science (India), Ph.D., University of Windsor (Canada)
- Gottlieb, Marc E.** (1992), Adjunct Professor, Chemical, Bio and Materials Engineering; B.S., Pennsylvania State University; M.D., Thomas Jefferson University
- Goul, K. Michael** (1985), Associate Professor of Decision and Information Systems, B.S., M.B.A., Ph.D., Oregon State University
- Gourley, David R.** (1967), Associate Professor of Marketing, B.S., Miami University; M.B.A., University of Toledo, D.B.A., Indiana University
- Goyer, Robert S.** (1981), Professor Emeritus of Communication; B.A., DePauw University; M.A., Miami University, Ph.D., Ohio State University
- Grace, Edward E.** (1963), Professor of Mathematics, B.S., Ph.D., University of North Carolina
- Graf, William L.** (1978), Regents' Professor of Geography, B.A., M.S., Ph.D., University of Wisconsin, Madison
- Graham, Roger J.** (1984), Assistant Research Scientist, Center for Solid State Science, B.S., University of Exeter (England); Ph.D., University of Bristol (England)
- Grasso, Lawrence** (1988), Assistant Professor of Accountancy, B.S., Syracuse University, Utica College; M.B.A., Rensselaer Polytechnic Institute; Ph.D., Boston University; C.P.A., Connecticut
- Gratton, Brian J.** (1983), Professor of History; B.A., University of New Mexico; Ph.D., Boston University
- Graul, Terry L.** (1995), Faculty Associate of Nursing, B.S., M.S., Arizona State University

- Gray, Susan E.** (1991), Assistant Professor of History, B A , Earlham College, M.A., Ph.D , University of Chicago
- Greeley, Ronald** (1977), Regents' Professor of Geology, B S , M S., Mississippi State University, Ph.D., University of Missouri, Rolla
- Green, Douglas M.** 1990 , Assistant Professor of Environmental Resources, B S , Oregon State University, M.S., North Dakota State University; Ph.D , Oregon State University
- Green, James L.** (1967), Associate Professor of English, B A , M A , University of Kansas; Ph.D., University of Nevada, Reno
- Green, Mary E.** (1967 , Professor Emeritus of English, B.A , Queens College, M A , St John's University, Ph.D University of Chicago
- Greeneich, Edwin W.** (1982), Associate Professor of Engineering; B S E E , M.S.E.E., Ph.D , University of California, Berkeley
- Greey, George W.** (1969), Professor Emeritus of Recreation Management and Tourism; B A , M A , Purdue University, Ph D , University of Michigan
- Grey, Betsy** 1987 , Professor of Law; B.A., Co umb a University; J D , Georgetown University
- Grier, Marvin** (1957), Professor Emeritus of Exercise Science and Physical Education, B.A , Wisconsin State College, La Crosse, M A , New York University
- Griffin, William A.** (1988 , Associate Professor of Family Resources and Human Development, B A , Auburn University; M S Virginia Polytechnic and State University; Ph.D., Texas Tech University
- Griffith, LeRoy H.** (1958 , Professor Emeritus of Education, B S., M S , Drake University, Ph D , University of Iowa
- Grigsby, J. Eugene** (1966) Professor Emeritus of Art; A.B., Morehouse College, M A , Ohio State University, Ph.D., New York University
- Grimm, Nancy B.** (1990), Associate Research Specialist of Zoology, B.A , Hampshire College; M.S., Ph D , Arizona State University
- Grimm, Robert E.** (1992), Assistant Professor of Geology, B A , University of Tennessee, Ph D , Massachusetts Institute of Technology
- Grinder, Robert E.** 1973 , Professor of Education; B.S., University of California Berkeley, Ed D , Harvard University
- Grobe, Edwin P.** (1957), Professor Emeritus of French; A B , William Jewell College, M A , Ph D . Indiana University, Bloomington
- Grondin, Robert O.** 1983), Associate Professor of Engineering, B S , M S , Ph D , University of Michigan
- Gronseth, Evangeline** (1982), Professor Emeritus of Nursing; B A , St Olaf College, M N., Yale University, M A , Ph D., Columbia University
- Groschupf, Kathleen D.** (1990 , Faculty Associate Center for Environmental Studies; B.S., University of Arizona, M S , Stephen F. Austin State University; Ph D , Virginia Polytechnic Institute and State University
- Gross, Allan W.** 1987 , Faculty Associate of Planning and Landscape Architecture; B S L A , University of Arizona, M S., Arizona State University
- Gross, Douglas R.** (1968) Professor of Counselor Education; Academic Program Coordinator, Counselor Education, B A., M A , Western Michigan University, Ph D., University of Wisconsin, Madison
- Grossman, Gary M.** (1994 . Associate Professor of Manufacturing and Industrial Technology; B.A , University of the Pacific, M S , Ph D., Purdue University
- Grossman, Louis H.** 1966 , Professor Emeritus of Management; B.A., University of Michigan, M.B A , Ph D , Michigan State University
- Grotjahn, Douglas B.** (1990), Assistant Professor of Chemistry and Biochemistry; B A , Reed College; Ph.D . University of California, Berkeley
- Groy, Thomas L.** 1983), Associate Research Professional, Chemistry and Biochemistry, B S Adams State College, Ph D., Arizona State University
- Gruzinska, Aleksandra** 1973 , Assistant Professor of French; B A., M.A , State University of New York, Buffalo, Ph D., Pennsylvania State University
- Gryder, Robert** 1959-63, 1964), Professor of Secondary Education, Academic Program Coordinator, Secondary Education; B A , Northwestern State University, M Ed , Louisiana State University; Ed D , University of North Dakota
- Guerin, Sanford M.** (1984 , Professor of Law, B.S., Boston University; J D , University of San Francisco; LL.M., New York University
- Guhathakurth, Subhrajit** 1994 Assistant Professor of Planning and Landscape Architecture, B Arch , Jadavpur University; M Comm , Iowa State University, Ph.D., University of California, Berkeley
- Guilbeau, Eric J.** (1977), Professor of Engineering, Chair, Department of Chemical, Bio and Materials Engineering; B S , M.S., Ph D , Louisiana Tech University
- Guillot, Elizabeth E.** (1964 , Professor Emeritus of Sociology; B S , Simmons College; M A., Ph D , University of Pennsylvania
- Guinouard, Donald E.** (1966 , Professor Emeritus of Counselor Education, B.S , M S., Montana State College; Ed.D , Washington State University
- Gutierrez de Soldatenko, Maria** (1995), Assistant Professor of Women's Studies, B A , California State University; M.A., Ph D , University of California, Los Angeles
- Guleserian, Theodore** 1971 , Associate Professor of Philosophy, B A , University of California, Riverside; Ph D , Yale University
- Gullett, Gayle** 1993 , Assistant Professor of History; B.A., M A , Loma Linda University, Ph.D., University of California, Riverside
- Gully, Anthony Lacy** (1972), Associate Professor of Art; B A , University of California, Riverside, M A , University of California, Berkeley, Ph D., Stanford University
- Guntermann, Gail** (1977 , Associate Professor of Spanish; B.S., University of Montana; M A , University of New Mexico; Ph.D., Ohio State University
- Guntermann, Karl L.** 1982 , Arizona Association of Realtors Professor of Real Estate; A B., Knox College; M B.A . D B A , Indiana University
- Gupta, Sanjay** (1990 , Assistant Professor of Accountancy; B.Com., Bombay University (India ; B Laws, Calcutta University India); M S A., Bowling Green State University, Ph D , Michigan State University; C P A., Ohio
- Gust, J. Devens** (1975), Professor of Chemistry and Biochemistry; B.S , Stanford University, M.S., Ph D , Princeton University
- Gustavsson, Nora S.** (1994), Assoc ate Professor of Soc al Work, A B , M S W , City University of New York; Ph D . University of Southern California

- Gutierrez, Nancy A.** 1985 . Associate Professor of English, Associate Chair, Department of English, B.A. Denison University, M.A., Ph.D., University of Chicago
- Guzzetti, Barbara J.** 1988 . Associate Professor of Reading Education, B.S., M.S., Northern Illinois University, Ph.D., University of Colorado
- Gwinner, Robert F.** 1970 . Professor of Marketing, B.S., University of Southern Mississippi; M.B.A., Ph.D., University of Arkansas
- Haberman, Donald C.** (1967), Professor Emeritus of English; B.A., Rutgers, The State University, M.A., Ph.D., Yale University
- Haberman, Lidia W.** 1967 . Instructor of Latin; B.A., Bryn Mawr College; M.A., Yale University
- Hackbarth, Glenn A.** 1976), Professor of Music, B.M., University of Wisconsin, Madison M.M., D.M.A., University of Illinois
- Hacker, Thomas O.** (1986), Distinguished Visiting Professor of Architecture M.Arch., University of Pennsylvania
- Hackett, Gail** 1988), Professor of Counseling Psychology; Director, Division of Psychology in Education, B.A., M.Ed., Ph.D., Pennsylvania State University
- Hadley, Neil F.** 1966 . Professor Emeritus of Zoology, B.A., Eastern Michigan University, Ph.D., University of Colorado
- Hadley, Pamela A.** 1994 . Assistant Professor of Speech and Hearing Science, B.A., Augustana College, M.A. Ph.D., University of Kansas
- Haefler, J. Richard** 1976 . Associate Professor of Music, B.M., Ohio State University, M.M., University of Arizona; Ph.D., University of Illinois
- Haggerson, Nelson L.** 1961-63, 1964 Professor Emeritus of Secondary Education, B.A., Vanderbilt University, M.S., New Mexico Western College, Silver City, Ph.D., Claremont Graduate School
- Hahn, Arthur W.** (1962), Professor Emeritus of Art; B.F.A., San Francisco Art Institute M.A., California State University, San Francisco
- Hajicek, James** (1976), Associate Professor of Art; B.F.A., Kansas City Art Institute, M.F.A., University of New Mexico
- Hakac, John** (1966 . Professor Emeritus of English, A.B. Centre College; M.A., Ph.D., University of Texas, Austin
- Haley, Arthur J.** 1976 . Professor of Recreation Management and Tourism; B.A., Stonehill College, M.Ed., Springfield College; Ph.D., Texas A&M University
- Hall, Brian** 1976 . Faculty Associate of Music, B.M., Kent University, M.M., Arizona State University
- Hall, James A.** 1990 . Adjunct Professor of Engineering, B.S., M.S., University of California, Berkeley, Ph.D., Ohio State University
- Hall, James R.** 1993 . Assistant Professor of Aerospace Studies, B.A., University of Northern Colorado, M.S., Air Force Institute of Technology
- Hall, John S.** 1973 . Professor of Public Affairs, B.A., M.A., San Diego State University, Ph.D., University of Oregon
- Halverson, Roy K.** 1988), Professor of Journalism and Telecommunication, B.S., M.S., University of Wisconsin, Madison, Ph.D., University of Illinois
- Hamilton, Michele R.** 1994 . Assistant Professor of Construction, B.S., University of Georgia, M.S.E., Ph.D., University of Texas, Austin
- Hamilton, Robert** 1980 . Professor of Music; B.M., Indiana University, Bloomington; M.M., Catholic University of America
- Hanisch, Tyke C.** 1994), Faculty Associate of Nursing; B.S., University of Wisconsin, M.S., Arizona State University
- Hanna, Albert Lyle** (1967 Professor Emeritus of Music, B.M., University of Cincinnati, Ph.D., Indiana University, Bloomington
- Hanson, Hugh** 1948 . Professor Emeritus of Zoology, B.S., Kansas State Teachers College; M.S., Ph.D., University of Illinois
- Hanson, Roland C.** 1966 . Professor of Physics and Astronomy; B.S., Michigan College of Mining and Technology; M.S., Ph.D., University of Illinois
- Happel, Stephen K.** (1975), Professor of Economics; Director, College of Business Honors Program; Associate Dean of Undergraduate Programs, College of Business; B.A., University of Missouri, M.A., Ph.D., Duke University
- Hardert, Ronald A.** 1966 . Associate Professor of Sociology; A.B., M.A., University of Cincinnati; Ph.D., Indiana University, Bloomington
- Hardin, Mary C.** 1988 . Assistant Professor of Architecture; B.A., M.Arch., University of Texas, Austin
- Hardt, Annelle** (1968), Professor Emeritus of Multicultural Education; B.A., Southwestern University; A.M., Cornell University; Ph.D., University of Texas, Austin
- Haried, Andrew A.** (1969), Professor Emeritus of Accountancy; B.A., Hastings College; M.A.S., Ph.D., University of Illinois; C.P.A., Arizona, Illinois, North Carolina
- Harmon, Judith S.** 1992), Faculty Associate of Nursing, B.S.N., M.S., Arizona State University
- Harmon-Vaughan, Beth** (1995), Assistant Professor of Design, B.A., University of Missouri; M.A., Ph.D., University of Georgia
- Harrington, Rodney E.** 1992), Adjunct Professor of Microbiology; A.B., University of South Dakota; Ph.D., University of Washington
- Harris, Carol** 1994 . Faculty Associate of Nursing; B.S., University of Illinois, M.S., Arizona State University
- Harris, Jerry D.** (1972 Professor of Education, B.S., Illinois State University, Ph.D., University of Minnesota, Twin Cities
- Harris, Joseph** 1963), Professor Emeritus of Chemistry and Biochemistry; B.S., University of Maryland, M.A., Ph.D., Johns Hopkins University
- Harris, Kathryn M.** (1965), Assistant Professor of English; B.A., M.A., Arizona State University
- Harris, Mark** 1980), Professor of English, B.A., M.A., University of Denver, Ph.D., University of Minnesota, Twin Cities
- Harris, Walter Jr.** (1980), Professor of Music; Vice Provost, Office of the Senior Vice President and Provost, B.S., Knoxville College; M.M., Ph.D., Michigan State University
- Harrison, Jon F.** (1991), Assistant Professor Zoology; B.S., University of Toronto (Canada); M.S., University of Pittsburgh; Ph.D., University of Colorado
- Hartman, Thomas S.** (1990 . Assistant Professor of Architecture, D.P.L.G., Paris School of Beaux Arts (France)
- Hartwell-Hunnicuttt, L. Kay** (1975), Associate Professor of Educational Administration and Supervision, B.S., M.A., Murray State University; Ph.D., Southern Illinois University Carbondale; J.D., Arizona State University
- Hasian, Marouf A. Jr.** (1995), Assistant Professor of Communication, B.A., University of North Carolina, Chapel Hill, M.A., Ph.D., University of Georgia, J.D., Campbell University

- Hassett, Matthew J.** 1966, Associate Professor of Mathematics, B.S. Fordham University; M.S., Ph.D., Rutgers, The State University
- Hastings, Vernon L.** (1973), Professor Emeritus of Construction; B.S.M.E., University of Nebraska, M.S.I.E., Oklahoma A&M University
- Hatfield, Mary M.** (1988), Associate Professor of Elementary Education, B.S., M.S., Ph.D., University of Kansas
- Haugen, Kathryn L.** 1995, Faculty Associate of Nursing, B.S., Adelphi University, M.S., Arizona State University
- Hawkos, Lise J.** 1981, Associate Museum Professoral, Slide Collection, School of Art, B.A. United States International University, M.A., University of Wisconsin, Madison
- Hawthorne, John** 1995, Assistant Professor of Philosophy, B.A., University of Manchester, Ph.D., Syracuse University
- Haygood, Robert C.** 1970, Professor of Psychology, B.S., University of Illinois, M.S., Ph.D., University of Utah
- Haynes, Peter** 1975, Professor of Justice Studies, B.S., University of Southampton (England), M.A., Ph.D., University of Toronto (Canada)
- Haynes, Richard J.** 1990, Adjunct Professor of Engineering, B.A., Miami University, M.D., University of California, San Francisco
- Hazel, Jeffrey R.** (1975), Professor of Zoology, B.A. College of Wooster; M.S., Ph.D., University of Illinois
- He, Jiping** (1994), Associate Professor of Engineering, B.S., Huazhong University of Science and Technology, Wuhan, China, B.S., Ph.D., University of Maryland
- Hecht, Michael L.** (1983), Professor of Communication, B.A., M.A. Queens College; Ph.D., University of Illinois
- Hedlund, Ann** (1976), Associate Professor of Anthropology, B.A., University of Colorado, M.A., Texas Technical University, Ph.D., University of Colorado
- Hedrick, Philip W.** 1992, Professor of Zoology, B.A., Hanover College, M.S., Ph.D., University of Minnesota
- Hegmon, Michelle** (1995), Assistant Professor of Anthropology, B.A., University of Virginia, M.A., Ph.D., University of Michigan
- Heidenreich, Tanya M.** 1994, Faculty Associate of Nursing, B.S., Washington State University, M.S., University of New Hampshire
- Heier, William D.** (1966), Professor Emeritus of Management, B.S., University of Maryland, M.A., George Washington University, Ph.D., American University
- Heller, Jules** (1976), Professor Emeritus of Art, Dean Emeritus, College of Fine Arts, B.A., Arizona State University, M.A. Columbia University, Ph.D., University of Southern California
- Helms, Loyce Randel** (1976), Professor of English, B.A., University of California, Riverside, Ph.D., University of Washington
- Helmstadter, Gerald C.** (1959), Professor Emeritus of Education; B.S., M.S., Iowa State University, Ph.D., University of Minnesota, Twin Cities
- Helton, Jon C.** 1973, Professor of Mathematics, B.S., Southwest Texas State College, M.A., Ph.D., University of Texas, Austin
- Hembree, Gary G.** (1986), Senior Research Specialist, Physics and Astronomy, B.A., University of California, San Diego, Ph.D., Arizona State University
- Henderson, Mark** 1984, Professor of Mechanical and Aerospace Engineering, Interim Director, Computer Integrated Manufacturing Systems Research Center; B.S.M.E., M.S.M.E., Ph.D., Purdue University
- Hendrick, Thomas E.** (1984), Professor of Purchasing and Logistics Management, B.S., M.B.A., University of Washington, Ph.D., University of Oregon
- Hendricks, Wanda A.** 1992, Assistant Professor of History; B.A., Limestone College; M.A., Wake Forest University; Ph.D., Purdue University
- Hendrickson, Lester E.** (1968), Professor Emeritus of Engineering, B.S., M.S., Michigan Technological University, Ph.D., University of Illinois
- Hendrickson, Suzanne B.** 1990, Lecturer of Languages and Literatures; B.S., M.A., Louisiana State University, Baton Rouge
- Hendrickson, William L.** (1976), Associate Professor of French, B.A., Arizona State University; M.A., University of Kansas; Ph.D., Princeton University
- Hendrix, Donald Louis** 1981, Adjunct Associate Professor of Botany, Plant Physiologist, U.S.D.A. Agricultural Research Service, B.A., Central Washington University, M.S., University of Washington, Ph.D., Washington State University
- Henkel, Ray** 1966, Professor Emeritus of Geography; B.S., Arizona State University, M.S., Ph.D., University of Wisconsin, Madison
- Hennington, Jo Ann** 1975, Professor Emeritus of Management Communication; B.A., M.B.A., Ed.D., Arizona State University
- Henry, Joseph** (1988), Professor of Engineering; B.S., West Virginia University, M.S., Ph.D., University of Michigan
- Hepburn, John R.** 1984, Professor of Justice Studies; B.A., Butler University, M.S., University of Kentucky, Ph.D., University of Iowa
- Hepworth, Dean H.** (1990), Professor Emeritus of Social Work, B.S., M.S.W., Ph.D., University of Utah
- Hepworth, Joseph T.** (1988), Associate Research Specialist, College of Nursing, B.A., San Diego State University; Ph.D., Arizona State University
- Herald, Cherry L.** (1973), Research Professor, Cancer Research Institute, B.A., University of Colorado, Ph.D., Arizona State University
- Herald, Delbert L.** (1973), Research Associate Professor, Cancer Research Institute; B.A., University of Colorado; Ph.D., Arizona State University
- Herbots, Nicole** 1991, Assistant Professor of Physics and Astronomy, Engineering Degree, Ph.D., Catholic University of Louvain (Belgium)
- Herman, George R.** 1956, Professor Emeritus of English, M.A., University of Kansas
- Herman, Richard M.** (1992), Adjunct Professor, Chemical, Bio and Materials Engineering, B.S., Case Western Reserve University; M.B., B.Ch., B.A.O., Queen's University Faculty of Medicine (Ireland)
- Hernandez, Armand P.** (1974), Professor Emeritus of Justice Studies, B.A., M.A., San Jose State University, Ed.D., University of Southern California
- Hernández-G., Manuel de Jesús** 1992, Assistant Professor of Spanish, B.A., University of California, San Diego; M.A., Ph.D., Stanford University
- Herrera, Richard** (1989), Assistant Professor of Political Science, B.A., M.A., St. Mary's University, Ph.D., University of California, Santa Barbara
- Herrington, Scott S.** 1981, Associate Librarian, Library Instruction, Systems, and Technology (LIST); Head, L.I.S.T., B.A., State University of New York, Plattsburgh, M.L.S., University of Tennessee; Ph.D., Arizona State University

- Hershauer, James C.** 1969 Professor of Decision and Information Systems, B.S., Purdue University, M.B.A., D.B.A., Indiana University, Bloomington
- Hertz, Michael G.** 1987, Associate Professor of Finance, B.A., M.B.A., M.S., University of Rochester, Ph.D. University of Oregon
- Hervig, Richard L.** 1981, Research Scientist, Center for Solid State Science, B.S., University of Iowa, Ph.D., University of Chicago
- Hestenes, David O.** (1966 Professor of Physics and Astronomy, B.A., Pacific Lutheran College, M.A., Ph.D., University of California, Los Angeles
- Hester, John J. "Jeff"** 1991, Assistant Professor of Physics and Astronomy, B.A., M.S., Ph.D., William Marsh Rice University
- Heydt, Gerald T.** 1996, Professor of Electrical Engineering; B.S.E.E., Cooper Union University; M.S.E.E., Ph.D., Purdue University
- Heynen, Stephen J., Lt. Col.** (1992, Professor of Military Science; Chair, Department of Military Science, B.A., M.B.A., California State University, San Bernardino
- Hickman, David R.** (1982), Regents' Professor of Music, B.M., University of Colorado, M.M., Wichita State University
- Higgason, Kelly Jo** 1993, Faculty Associate of Nursing, B.S., Kansas State University, B.S.N., University of Kansas, M.S., Arizona State University
- Higgins, Norman C.** (1968, Professor Emeritus of Educational Media and Computers, B.S., Central Missouri State College; M.S., Ph.D., Syracuse University
- Higgins, Walter T. Jr.** 1967, Professor of Engineering, B.E.E., Manhattan College; M.S., Ph.D., University of Arizona
- Higgs, Allen A.** 1980, Senior Research Specialist, Center for Solid State Science; B.S., Arizona State University
- Hild, Nicholas R.** 1983, Professor of Manufacturing and Industrial Technology; B.S.M.E., M.S. Envt., University of Iowa, Ph.D., Union Graduate School
- Hill, James** 1995 Assistant Professor of Justice Studies; B.A., J.D., LL.M., University of Washington
- Hines, Harold C.** (1952), Professor Emeritus of Music, B.S., M.S., University of Illinois
- Hinks, Robert W.** 1981, Associate Professor of Civil Engineering; B.Sc., University of Wales (Wales); M.S.E., M.A., Ph.D., Princeton University
- Hinrichs, Richard N.** (1987), Associate Professor of Exercise Science and Physical Education; A.B., Oberlin College, M.A., University of Iowa; Ph.D., Pennsylvania State University
- Hinshaw, Donald A.** 1966 Professor Emeritus of Architecture, B.Arch., University of Notre Dame
- Hirata, Ernest T.** (1974), Associate Professor of Manufacturing and Industrial Technology; B.A., San Diego State College, Ed.D., Arizona State University
- Hirleman, Edwin D. Jr.** 1977, Professor of Mechanical and Aerospace Engineering; Interim Associate Dean for Research, Director, Center for Research in Engineering and Applied Sciences, B.S.M.E., M.S.M.E., Ph.D., Purdue University
- Hodges-Randall, Gertrude** (1989), Faculty Associate of Planning and Landscape Architecture, Herberger Center for Design Excellence; B.S., Columbus College; M.C.P., Massachusetts Institute of Technology
- Hoffer, Warren W.** (1972) Professor of Music, B.M., M.M., University of Wisconsin, Madison
- Hoffman, Dennis L.** 1979, Professor of Economics, B.S., Grand Valley State University, M.A., Ph.D., Michigan State University
- Hoffman, Steven A.** (1985, Associate Professor of Microbiology, B.A., Clark University; M.A., Ph.D., University of Colorado
- Hoffmeister, J. Ronald** (1983), Associate Professor of Finance, B.S., Millikin University, M.S., Ph.D., University of Illinois
- Hogan, Timothy D.** (1970, Professor of Economics, Director, Center for Business Research, Director, L. William Seidman Research Institute, A.B., University of California, Berkeley, M.A., University of California, Davis, Ph.D., Virginia Polytechnic Institute and State University
- Hogg, Gary L.** (1995), Professor of Industrial and Management Systems Engineering, Chair, Department of Industrial and Management Systems Engineering, B.S., Texas A&M University, M.S., Ph.D., University of Texas, Austin
- Holbert, Keith E.** (1989, Associate Professor of Electrical Engineering; B.S., M.S., Ph.D., University of Tennessee
- Holbrook, Amy K.** 1975, Associate Professor of Music, B.A., M.A., Mills College, Ph.D., University of Washington
- Holloway, Allen Jr.** 1992, Adjunct Professor, Chemical, Bio and Materials Engineering; B.A., Yale University, M.D., Harvard University Medical School
- Holloway, John R.** 1969, Professor of Chemistry and Biochemistry and Geology; B.S., University of Oregon; Ph.D., Pennsylvania State University
- Holloway, Victoria** (1995, Associate Professor of Theatre; B.A., Boise State University
- Holway, James** (1993), Faculty Associate of Planning and Landscape Architecture, B.A., Cornell University, M.R.P., Ph.D., University of North Carolina, Chapel Hill
- Hom, Peter W.** (1984), Professor of Management, B.A., New York University; M.A., University of California, Berkeley, Ph.D., University of Illinois
- Homa, Donald L.** (1975), Professor of Psychology, B.S., University of Iowa; M.S., Ph.D., University of Wisconsin-Madison
- Homan, Willem J.** 1990, Lecturer of Aeronautical Management Technology; B.S., M.T., Southeastern Oklahoma State University; M.B.A., Arizona State University
- Hooper, J. Kenneth** 1991, Professor of Botany, Chair, Department of Botany, B.A., Goshen College, M.S., Ph.D., University of Michigan
- Hood, John H.** 1993, Assistant Professor of Theatre; B.F.A., Arizona State University, M.F.A., University of Minnesota, Twin Cities
- Hood, Stafford** 1992, Assistant Professor of Counselor Education, B.A., M.S., University of Wisconsin, Whitewater, Ph.D., University of Illinois
- Hoover, Helene M.** (1957, Professor of Family Resources and Human Development; B.S., M.S., Louisiana State University, Ed.D., Oklahoma State University
- Hoover, Kenneth H.** 1956, Professor Emeritus of Secondary Education; B.S., M.A., Louisiana State University, Baton Rouge, Ed.D., University of Washington
- Hopkins, Annis Helen** (1981), Assistant Professor of Women's Studies; B.A., Greenville College, M.A., University of Illinois; Ph.D., Arizona State University
- Hopkins, Dale L.** (1993), Faculty Associate of Nursing, B.S.N., Thomas Jefferson University, M.S.N., University of Pennsylvania

- Hoppensteadt, Frank** 1995, Professor of Mathematics, Director Systems Science and Engineering Research Center, B.A., Butler University, M.S., Ph.D., University of Wisconsin, Madison
- Horan, Elizabeth R.** 1989, Associate Professor of English, A.B., Columbia University, Ph.D., University of California, Santa Cruz
- Horan, John J.** 1987, Professor of Counseling Psychology, A.B., M.A., University of Detroit, Ph.D., Michigan State University
- Horowitz, Renee** 1986, Professor of Manufacturing and Industrial Technology, B.A., Brooklyn College, M.A., Ph.D., University of Colorado
- Horwath, Peter** (1973), Professor of German, Abitur, Realgymnasium, Landshut, West Germany, B.A., M.A., Indiana University, Bloomington; Ph.D., University of Michigan
- Hotelling, Katsuko T.** 1991, Assistant Librarian, Original Cataloging, B.A., M.A., University of North Carolina, Chapel Hill; M.A., University of Oregon
- Hoult, Thomas Ford** (1964), Professor Emeritus of Sociology, A.B., University of Illinois, M.A., Whittier College; Ph.D., University of Southern California
- Houston, Sandra L.** (1984), Professor of Civil Engineering, B.S., University of Oklahoma, M.S.C.E., University of New Mexico, Ph.D., University of California, Berkeley
- Houston, William N.** 1984, Professor of Engineering, Professional Degree in Geological Engineering, Colorado School of Mines, M.S.C.E., Ph.D., University of California, Berkeley
- Howell, Todd I.** (1994), Adjunct Faculty of Anthropology, B.A., University of Wisconsin, Parkside, M.A., New Mexico State University, Ph.D., Arizona State University
- Howells, Edmund G.** (1960), Professor Emeritus of Philosophy, B.A., University of Utah, M.A., University of Michigan, M.A., Middlebury College, Ph.D., Stanford University
- Hoy, Frank P.** (1978), Associate Professor of Journalism and Telecommunication, B.A., George Washington University, M.A., American University
- Hoyt, Charles D. Jr.** (1962), Professor Emeritus of Engineering, B.S., M.S., Ph.D., Purdue University
- Hubbard, Paul G.** 1950, Professor Emeritus of History, A.B., Wabash College, M.A., Ph.D., University of Illinois
- Hubele, Norma F.** (1984), Associate Professor of Engineering, B.S., University of Massachusetts, M.S., Ph.D., Rensselaer Polytechnic Institute
- Hudak, Thomas** (1988), Associate Professor of Anthropology, B.A., M.A., University of Wisconsin, Madison; Ph.D., University of Michigan
- Hudelson, Sarah J.** 1989, Professor of Curriculum and Instruction, B.A., College of Wooster, M.A., Ph.D., University of Texas, Austin
- Hudson, Walter W.** (1986), Professor of Social Work, B.A., M.A., Ph.D., University of Chicago
- Huey, Ben M.** 1979, Associate Professor of Computer Science and Engineering; Acting Chair, Department of Computer Science and Engineering; B.S., Harding College; M.S., Ph.D., University of Arizona
- Huff, Robert A.** 1985, Professor Emeritus of Education, B.A., University of Kansas, M.A., University of Missouri, Kansas City, Ed.D., University of Oregon
- Hughston, George A.** 1983, Associate Professor of Family Resources and Human Development, B.S., M.S., Brigham Young University, Ph.D., Pennsylvania State University
- Huizar, H. Elaine** 1985, Adjunct Faculty Associate of Botany; B.S., M.S., University of Texas, El Paso, Ph.D., Arizona State University
- Huizingh, William** (1979), Professor Emeritus of Accountancy, B.S.B.A., M.B.A., University of Denver, Ph.D., University of Michigan; C.P.A., Arizona, Colorado
- Humble, Jane E.** 1989, Associate Professor of Manufacturing and Industrial Technology, B.S.E., M.S.E., Ph.D., Arizona State University
- Humphrey, Ted** 1966, Professor of Philosophy; Dean, University Honors College, A.B., M.A., University of California, Riverside, Ph.D., University of California, San Diego
- Humphreys, Jere T.** 1987, Professor of Music, B.M., University of Mississippi, M.M., Florida State University, Ph.D., University of Michigan
- Hunnicut, Harold B.** 1962, Professor Emeritus of Educational Administration and Supervision; B.S., Ed.M., Ed.D., University of Oklahoma
- Hunter, Betty A.** (1966), Professor Emeritus of Family Resources and Human Development, B.S., M.Ed., University of North Carolina, Greensboro
- Huntington, Virginia R.** (1967), Professor Emeritus of Accountancy, B.A., M.B.A., University of Kansas, Ph.D., University of Texas; C.P.A., Arizona, Missouri
- Hurlbert, Glenn** 1990, Assistant Professor of Mathematics; B.S., Wake Forest University, M.Sc., State University of New York, Stony Brook
- Hurtado, Albert L.** 1986, Associate Professor of History, B.A., M.A., California State University, Sacramento, Ph.D., University of California, Santa Barbara
- Huston, Gerald D.** (1962), Professor Emeritus of Decision and Information Systems; B.S.C., M.A., Ph.D., University of Iowa
- Hutt, Michael D.** (1982), Professor of Marketing; B.B.A., M.B.A., Ohio University; Ph.D., Michigan State University
- Hwang, Yuhchang** 1995, Assistant Professor of Accountancy; B.A., Fu Jen Catholic University (Taiwan); M.S., National Cheng Chi University, Taiwan; Ph.D., University of California, Berkeley
- Idso, Sherwood J.B.** 1984, Adjunct Professor of Geography, Research Physicist, U.S.D.A., Agricultural Research Service, B.S., M.S., Ph.D., University of Minnesota, Twin Cities
- Ihrig, Edwin** 1979, Professor of Mathematics, B.S., M.A., University of Maryland, Ph.D., University of Toronto, Canada
- Irdieke, LeRoy F.** 1968, Professor Emeritus of Accountancy, B.S., Valley City State College, M.A., University of North Dakota; Ph.D., University of Illinois, C.P.A., Illinois
- Inaba, Jeffrey N.** 1992, Assistant Professor of Architecture, A.B. Arch., University of California, Berkeley, M.D.S., M.Arch., Harvard University
- Ingraham, Leonard W.** 1973, Lecturer Emeritus of Education; B.S., City College of City University; M.A., Ed.D., Columbia University
- Inskeep, Gordon C.** 1968, Professor Emeritus of Management, B.Ch.E., Ohio State University, Ph.D., Columbia University
- Irish, Joel D.** 1993, Adjunct Faculty of Anthropology, B.S., M.S., Mankato State University, Ph.D., Arizona State University
- Ismeurt, Robert L.** 1989, Associate Professor of Nursing, B.S.N., Florida State University, M.S., Arizona State University, Ph.D., University of Texas, Austin

- Itule, Bruce D.** (1985), Clinical Associate Professor of Journalism and Telecommunication; Director of Student Publications; B.A., University of Arizona; M.A., University of Colorado
- Iverson, Peter** (1986), Professor of History; B.A., Carleton College; M.A., Ph.D., University of Wisconsin, Madison
- Jackiewicz, Zdzislaw** (1987), Professor of Mathematics; M.S., Technical University of Gdansk (Poland), M.S., Ph.D., University of Gdansk (Poland)
- Jacks, Mary L.** (1955), Professor Emeritus of Business Administration; B.A., M.A., Arizona State University, C.P.S., Arizona
- Jackson, Andrew E.** (1995), Assistant Professor of Aeronautical Technology; B.A., University of Louisville; M.B.A., Embry Riddle Aeronautical University; Ph.D., University of Central Florida
- Jackson, Donald W., Jr.** (1972), Professor of Marketing; B.A., Albion College; M.B.A., Ph.D., Michigan State University
- Jackson, Marvin R. Jr.** (1962), Professor Emeritus of Economics; B.S., M.A., University of Colorado; Ph.D., University of California, Berkeley
- Jackson, Naomi M.** (1995), Assistant Professor of Dance; B.A., McGill University (Canada); M.A., University of Surrey (United Kingdom); Ph.D., New York University
- Jacob, Richard J.** (1963), Professor of Physics and Astronomy; B.S., Ph.D., University of Utah
- Jacobowitz, Ronald** (1970), Professor of Mathematics; B.A., City College of New York; M.S., University of Chicago; Ph.D., Princeton University
- Jacobs, Arthur D.** (1977), Faculty Associate of Purchasing and Logistics Management; B.S., M.B.A., Arizona State University
- Jacobs, Bertam L.** (1985), Associate Professor of Microbiology; B.S., Rutgers, The State University; Ph.D., University of California, Berkeley
- Jacobs, H. Donald** (1972), Professor Emeritus of Reading and Library Science; Director, Reading Clinic; B.A.Ed., M.A.Ed., Central Washington State College; D.Ed., University of Oregon
- Jacobsen, Arthur** (1956), Professor Emeritus of Art; B.S., M.S., University of Wisconsin, Madison; Ph.D., University of Minnesota, Twin Cities
- Jacobsen, David** (1992), Assistant Professor of Sociology; B.A., Hebrew University (Israel); Ph.D., Princeton University
- Jacobson, Dean L.** (1974), Professor of Engineering; B.S., M.S., University of Notre Dame; Ph.D., University of California, Los Angeles
- Jain, Nemi C.** (1976), Professor of Communication; B.S., M.S., Agra University (India); Ph.D., Michigan State University
- Jahob, John H.** (1960), Professor Emeritus of Architecture, B.Arch., Ohio State University; M.S.Arch., Columbia University
- James, Patricia** (1994), Faculty Associate of Nursing; B.S., M.S., University of Northern Colorado
- James, Steven R.** (1995), Adjunct Faculty of Anthropology; B.A., University of California, Berkeley; M.A., University of Utah; Ph.D., Arizona State University
- Jankowski, Daniel F.** (1964), Professor of Mechanical and Aerospace Engineering; Director, Engineering Core and Special Studies; Director, School of Engineering; Associate Dean, Academic Affairs, College of Engineering and Applied Sciences; B.S.E., M.S.E., Ph.D., University of Michigan
- Janssen, James G.** (1968), Associate Professor of English; B.A., M.A., Marquette University; Ph.D., University of Wisconsin, Madison
- Jasper, Marcia A.** (1976-86; 1993), Faculty Associate of Nursing; B.S., St. Olaf College; M.S., Arizona State University
- Jay, Bill** (1974), Professor of Art; Diploma, Institute of Incorporated Photographers, Berkshire College of Art (England); Final Diploma, City and Guilds of The London Institute, Berkshire College of Art (England); M.A., M.F.A., University of New Mexico
- Jelinek, James J.** (1953), Professor Emeritus of Education; B.S., University of Illinois, M.A., Northwestern University; Ed.D., Indiana University, Bloomington
- Jenkins, William** (1979), Associate Professor of Art; B.A., St. Lawrence University; M.F.A., State University of New York, Buffalo
- Jennings, Marianne M.** (1977), Professor of Legal and Ethical Studies; Director, Joan and David Lincoln Center for Ethics; B.S., J.D., Brigham Young University
- Jo, Yung-hwan** 1966, Professor Emeritus of Political Science; B.A., Lincoln Memorial University, M.A., University of Tennessee, Knoxville; Ph.D., American University
- Joehnk, Michael D.** (1982), Professor of Finance; B.S., University of Arizona; M.B.A., Arizona State University; Ph.D., University of Arizona
- Johnson, Alan P.** 1967, Associate Professor of English; B.A., Amherst College; M.A., University of Michigan; Ph.D., University of Minnesota, Twin Cities
- Johnson, Carolyn R.** (1991), Associate Librarian, Library Instruction, Systems, and Technology; L.I.S.T.; B.A., Montclair State College; M.S.L.S., University of Illinois; M.B.A., University of Minnesota
- Johnson, Douglas A.** 1974, Professor of Accountancy; B.B.A., Ph.D., University of Texas; C.P.A., Texas
- Johnson, John M.** (1972), Professor of Justice Studies; B.A., Indiana University, Bloomington; M.A., San Diego State College; Ph.D., University of California, San Diego
- Johnson, Linda** (1985), Associate Professor of Design; B.A., M.A., Iowa State University
- Johnson, Paul C.** (1994), Associate Professor of Civil and Environmental Engineering; B.S., University of California, Davis; M.A., Ph.D., Princeton University
- Johnson, Randall A.** (1984) Adjunct Associate Professor of Environmental Resources; B.S., California State Polytechnic University, Pomona; M.S., Ph.D., University of Missouri, Columbia
- Johnson, Rosemary** (1959), Professor Emeritus of Nursing; B.S., M.P.H., University of Minnesota, Twin Cities
- Johnson, Roy M.** 1952-53; 1955, Professor Emeritus of Microbiology; A.B., M.S., University of Chicago; Ph.D., University of New Mexico
- Johnson, Wendee** (1990), Faculty Associate of Nursing; B.S., Gustavus Adolphus College; M.S., University of Pennsylvania
- Johnson, William G.** (1990), Professor of Health Administration and Policy; B.S., University of Pennsylvania; M.A., Temple University; Ph.D., Rutgers, The State University
- Johnson, William S.** (1990), Associate Research Specialist, Director, Office of University Evaluation, Division of the Senior Vice President and Provost; Interim Director, Division of Undergraduate Academic Services; B.A., Washington State University; M.S., Iowa State University; Ph.D., University of Southern California

- Johnston, Carol S.** (1986), Associate Professor of Family Resources and Human Development; B.S., University of Michigan; M.A., Ph.D., University of Texas, Austin
- Johnston, Hubert** (1986), Clinical Associate Professional, Social Work, B.S., Cheyney State College; M.A., Central Michigan University, Ph.D., Cornell University
- Jones, Austin E.** (1968), Professor Emeritus of Psychology; B.A., University of Illinois, M.S., Purdue University; Ph.D., University of Rochester
- Jones, Daisy M.** (1963), Professor Emeritus of Education; B.S., M.S., Indiana State University; Ed.D., Indiana University, Bloomington
- Jones, John** (1990), Assistant Professor of Mathematics; A.B., University of California, Berkeley; Ph.D., University of Texas, Austin
- Jones, Kumen H.** (1987), Senior Lecturer of Accountancy, B.A., Brigham Young University; M.B.A., Idaho State University
- Jones, Marion K.** (1970), Professor of Dance; B.A., Wayne State University, M.A., Arizona State University
- Jones, Owen** (1994), Associate Professor of Law; B.A., Amherst College; J.D., Yale University
- Jones, Robert W.** (1993), Research Professor of Architecture; B.A., University of Washington; Ph.D., University of Colorado, Boulder
- Jones, Ruth** (1981), Professor of Political Science; B.S., Indiana State University; M.A., Ph.D., Georgetown University
- Jones, William R. Jr.** (1990), Faculty Associate of Law, B.A., LL.B., University of Michigan
- Jordan, K. Forbis** (1987), Professor Emeritus of Educational Administration and Supervision, Interim Director, Division of Educational Leadership and Policy Studies; A.B., M.A., Western Kentucky State College; Ed.D., Indiana University
- Julien, Helene M.** (1994), Assistant Professor of French, D.F.A., University of Paris IV, Sorbonne, M.A., Ph.D., Princeton University
- Jurik, Nancy** (1981), Associate Professor of Justice Studies, B.A., M.A., Southern Methodist University; Ph.D., University of California, Santa Barbara
- Justus, Jerry T.** (1968), Professor Emeritus of Zoology; B.A., Franklin College; M.A., Ph.D., Indiana University Bloomington
- Juvet, Richard S. Jr.** (1970), Professor Emeritus of Chemistry and Biochemistry, B.S., Ph.D., University of California, Los Angeles
- Kadell, Kevin** (1981), Professor of Mathematics; B.A., California State University, Sacramento; M.A., University of Maryland; Ph.D., Pennsylvania State University
- Kader, David** (1979), Professor of Law; B.A., California State University, Fresno, J.D., University of Washington; LL.M., University of London (England)
- Kagan, Albert** (1992), Professor of Agribusiness and Environmental Resources, B.S., M.S., Ph.D., Iowa State University of Science and Technology
- Kagy, Virginia L.** (1947), Professor Emeritus of Family Resources and Human Development; B.A., Drake University; M.S., Iowa State University; Ph.D., Johns Hopkins University
- Kahn, B. Winston** (1966), Associate Professor of History; B.A., National Taiwan University (Taiwan), M.A., University of Minnesota, Twin Cities, Ph.D., University of Pennsylvania
- Kahn, Kim F.** (1989), Associate Professor of Political Science; A.B., M.A., Ph.D., University of Michigan
- Kaida, Tamarra** (1980), Professor of Art, B.A., Goddard College; M.F.A., State University of New York, Buffalo
- Kajikawa, William M.** (1937), Professor Emeritus of Physical Education; B.A., M.A., Arizona State University
- Kambhampati, Subbarao** (1991), Assistant Professor of Computer Science and Engineering; B.Tech. Indian Institute of Technology (India); M.S., Ph.D., University of Maryland, College Park
- Kamins, Martin P.** (1970), Professor Emeritus of Elementary Education, B.Ed., University of Miami, M.S., Florida State University; Ed.D., Wayne State University
- Kaminsky, Elijah Ben-Zion** (1962), Professor Emeritus of Political Science; A.B., A.M., Ph.D., Harvard University
- Kaminsky, Selina K.** (1988), Assistant Librarian, Library Services; B.A., University of Miami; M.A.L.S., University of Denver
- Kaplan, Robert G.** (1984), Associate Professor of Dance; B.M.E., University of Hartford
- Kaplan, Steven** (1981), Professor of Accountancy, B.S., Arizona State University; M.A.S., Ph.D., University of Illinois
- Karady, George** (1986), Professor of Engineering, SRP Chair, Diploma, Technical University, Budapest (Hungary); Candidate of Technical Science, Hungarian Academy of Science (Hungary); Ph.D., Budapest University for Technical Sciences (Hungary)
- Karam, Lina** (1995), Assistant Professor of Electrical Engineering, B.E., American University of Beirut (Lebanon), M.S., Ph.D., Georgia Institute of Technology
- Karjala, Dennis S.** (1978), Professor of Law; B.S.E., Princeton University; M.S., Ph.D., University of Illinois; J.D., University of California, Berkeley
- Karnes, Thomas L.** (1968), Professor Emeritus of History, A.B., Colorado University; A.M., Ph.D., Stanford University
- Karoly, Paul** (1982), Professor of Psychology, B.A., City College of New York; Ph.D., University of Rochester
- Karp, Merrill R.** (1994), Lecturer of Aeronautical Technology; B.S., Arizona State University; M.A., Central Michigan University
- Karpman, Robert R.** (1990), Adjunct Professor of Engineering, B.A., LaSalle College, M.B.A., University of Phoenix; M.D., University of Pennsylvania
- Kary, Raymond E.** (1989), Faculty Associate, Center for Environmental Studies; B.S., Jamestown College, M.S., University of Minnesota, Twin Cities; Ph.D., University of Iowa
- Kashiwagi, Dean T.** (1992), Assistant Professor of Construction; B.S.C.E., University of Hawaii, Manoa, M.S.I.E., Ph.D., Arizona State University
- Kastenbaum, Beatrice** (1982), Faculty Associate of Nursing, B.S.N., University of Michigan, M.S.N., Wayne State University
- Kastenbaum, Robert J.** (1981), Professor of Gerontology and Communication, B.A., Long Beach State College; Ph.D., University of Southern California
- Katzman, Elaine Menter** (1983), Professor Emeritus of Nursing; B.S., M.S., Ph.D., Syracuse University
- Katz, Richard C.** (1990), Adjunct Professor of Speech and Hearing Science, B.A., M.A., University of Massachusetts; Ph.D., University of Florida
- Kaufman, Herbert M.** (1973), Professor of Finance; Chair, Department of Finance, Executive Director, Center for Financial System Research; B.A., State University of New York, Binghamton, Ph.D., Pennsylvania State University
- Kaufman, Irving** (1965), Professor Emeritus of Engineering; B.E., Vanderbilt University; M.S., Ph.D., University of Illinois
- Kaufman, Lucile B.** (1951), Professor Emeritus of Engineering, B.S.M.E., M.S., University of Colorado, P.E

- Kaufmann, William B.** 1968, Professor of Physics and Astronomy; A.B., M.A., Ph.D., University of California, Berkeley
- Kawski, Matthias** (1988), Associate Professor of Mathematics; Ph.D., University of Colorado
- Kaye, David H.** (1976), Regents' Professor of Law; B.S., Massachusetts Institute of Technology, M.A., Harvard University; J.D., Yale University
- Kazilek, Charles J.** 1985, Associate Research Professional, Zoology, B.F.A., M.N.S., Arizona State University
- Kazmier, Leonard J.** (1965), Professor of Decision and Information Systems; B.A., M.A., Wayne State University, Ph.D., Ohio State University
- Keams, Paula** (1995), Assistant Professor of Public Affairs, B.A., University of Tennessee, Knoxville, M.P.A., Ph.D., University of Kentucky
- Kearney, James R. III** 1968, Professor Emeritus of History, B.A., Pomona College, M.A., Washington University, Ph.D., University of Wisconsin, Madison
- Keating, Thomas** 1972, Assistant Instructional Professional; B.A., M.A., California State University, Sacramento; M.P.A., Ph.D., Indiana University, Bloomington
- Keats, Barbara W.** (1984), Associate Professor of Management, Associate Dean for Research, Administration, and Doctoral Programs, College of Business; B.A., Louisiana Technical University; M.S., Northeast Louisiana University, Ph.D., Oklahoma State University
- Keats, J. Bert** (1984), Associate Professor of Engineering, B.S.I.E., Lehigh University; M.S., Ph.D., Florida State University, Ph.D., Oklahoma State University
- Keefe, Donald L.** (1987), Associate Professor of Management Science; B.S., Carnegie Mellon University, M.S., Stanford University; M.S., Ph.D., University of Michigan
- Kehl, Delmar G.** 1965, Professor of English; B.A., Bob Jones University; M.S., University of Wisconsin, Madison, Ph.D., University of Southern California
- Kehrer-Emileane, Laura** (1984), Faculty Associate of Nursing; B.S., Alverno College; M.S., Arizona State University
- Keim, Robert T.** 1979, Associate Professor of Information Systems, B.S., M.B.A., Ph.D., University of Pittsburgh
- Keith, Marlow F.** (1946), Professor Emeritus of Technology, B.A., M.A., Arizona State University
- Keith, Verna M.** (1990), Associate Professor of Sociology, B.S., University of Central Arkansas, M.A., Ph.D., University of Kentucky
- Keller, Gary D.** (1986), Regents' Professor of Spanish, B.A., University of the Americas (Mexico), M.A., New School for Social Research; M.A., Ph.D., Columbia University
- Keller, Thomas** (1980), Associate Professor of Management, Director, Center for Office Automation Research, B.Ed., M.Ed., Ed.Spec., Ed.D., University of Toledo
- Kelley, Betty C.** (1995), Assistant Professor of Exercise Science and Physical Education, B.A., Luther College, M.Ed., University of Minnesota; Ph.D., University of North Carolina, Greensboro
- Kelley, Donald G.** (1980), Associate Professor of Manufacturing and Industrial Technology; B.S., M.S., Arizona State University
- Kelly, John B.** 1962, Professor Emeritus of Mathematics; B.A., Columbia University; Ph.D., Massachusetts Institute of Technology
- Kelly, Richard W.** (1965), Professor of Engineering, B.S.E., M.S.E., Ph.D., University of Iowa
- Kelly, Rita Mae** (1982), Professor of Justice Studies; B.A., University of Minnesota, Twin Cities, M.A., Ph.D., Indiana University, Bloomington
- Kelly, Rob Roy** (1983), Professor Emeritus of Art; B.F.A., Minneapolis School of Art; M.F.A., Yale University
- Kennedy, Thomas D.** (1974), Professor Emeritus of Justice Studies; B.A., Tulane University; M.A., Ph.D., Louisiana State University, Baton Rouge
- Kenney, Janet W.** 1988, Professor of Nursing, B.S., Alfred University; M.S., Boston University, Ph.D., State University of New York, Buffalo
- Kenney, Patrick J.** (1986), Associate Professor of Political Science, B.A., M.A.P.A., Ph.D., University of Iowa
- Kenrick, Douglas T.** (1980), Professor of Psychology; B.A., Dowling College, M.A., Ph.D., Arizona State University
- Kerr, Barbara A.** (1990), Professor of Counselor Education and Counseling Psychology, A.B., University of Missouri, M.A., Ohio State University, Ph.D., University of Missouri
- Kerr, Nancy J.** 1967, Professor of Education, B.S., University of Illinois, M.A., Ph.D., University of Houston
- Kettner, Peter M.** (1979), Professor of Social Work, B.A., Valparaiso University, M.S.W., Washington University, D.S.W., University of Southern California
- Keuter, Clifford D.** (1988), Professor of Dance
- Kevane, Clement J.** 1956, Professor Emeritus of Physics and Astronomy, B.S., Ph.D., Iowa State University
- Kiang, Melody Y.** 1991, Assistant Professor of Decision and Information Systems, B.B.A., National Chengchi University (Taiwan), M.S., University of Wisconsin, Madison; Ph.D., University of Texas, Austin
- Kierstead, Henry A.** (1988), Professor of Mathematics; B.A., M.A., Ph.D., University of California, San Diego
- Kiesow, Milton A.** (1957), Professor Emeritus of Education; B.S., University of Wisconsin; M.A., Ph.D., University of Nebraska, Lincoln
- Kigin, Denis J.** 1958–65; 1967, Professor Emeritus of Technology, Dean Emeritus, Continuing Education and Summer Sessions, B.S., Mankato State University; M.S., University of Wisconsin, Stout, Ed.D., University of Missouri
- Kihl, Mary**, Professor of Planning; Associate Dean of Architecture and Environmental Design, A.B., Juniata College; M.A., University of Michigan, Ph.D., Pennsylvania State University
- Killeen, Mary** 1982–84; 1986, Associate Professor of Nursing; Associate Dean for Undergraduate Programs and Extended Education, College of Nursing, B.S.N., M.S., Arizona State University, Ph.D., University of Texas, Austin
- Killeen, Peter R.** (1968), Professor of Psychology; B.S., Michigan State University, Ph.D., Harvard University
- Kim, Joochul** (1980), Associate Professor of Planning and Landscape Architecture, B.A., University of California, Berkeley; M.U.P., Ph.D., University of Michigan
- Kim, Moon J.** (1990), Assistant Research Scientist, Center for Solid State Science, M.S., Ph.D., Arizona State University
- Kimball, Bruce A.** (1988), Adjunct Professor of Botany, B.S., University of Minnesota, Twin Cities, M.S., Iowa State University, Ph.D., Cornell University
- Kimler, Stephen J.** (1967), Professor Emeritus of Education; B.Ed., Milwaukee State Teachers College; M.Ed., Marquette University; Ed.D., Arizona State University

- Kinard, Benjamin** 1992, Assistant Professor of Curriculum and Instruction, B.A., M.Ed., Ph.D., University of Maryland, College Park
- Kingsbury, Warren T.** (1964), Professor Emeritus of Education, A.B., Central College; A.M., University of Missouri; Ed.D., New York University
- Kingston, Jerry L.** (1969), Professor of Economics, B.A.E., Wayne State College; M.S., Colorado State University, Ph.D., Pennsylvania State University
- Kinicki, Angelo J.** (1982), Professor of Management, B.B.A., M.B.A., D.B.A., Kent State University
- Kinnier, Richard** (1982), Associate Professor of Counseling Psychology, B.A., Boston College; Ed.M., Columbia University Ph.D., Stanford University
- Kintigh, Keith W.** (1987), Professor of Anthropology; A.B., M.S., Stanford University; Ph.D., University of Michigan
- Kipke, Daryl R.** 1992, Assistant Professor of Chemical, Bio and Materials Engineering; B.S.E., Grand Valley State University, M.S., M.S.E., Ph.D., University of Michigan
- Kirkman-Liff, Bradford L.** (1981), Professor of Health Administration and Policy; B.S., M.S., Carnegie Mellon University; Dr.P.H., University of North Carolina, Chapel Hill
- Kirkwood, Craig W.** 1983, Professor of Management Science, S.B., S.M., E.E., Ph.D., Massachusetts Institute of Technology
- Kisielewski, Robert V.** (1978), Professor Emeritus of Technology; B.S.M.E., M.S.M.E., University of Wisconsin, Madison
- Klann, Margaret L.** (1945), Professor Emeritus of Physical Education; B.S., University of Illinois, M.A., University of Northern Colorado
- Klein, James D.** (1988), Associate Professor of Education; B.A., Florida Atlantic University; M.S., Ph.D., Florida State University
- Kleine, Robert E. III** (1988), Assistant Professor of Marketing, B.S., University of New Hampshire; Ph.D., University of Cincinnati
- Kleine, Susan S.** (1988), Assistant Professor of Marketing, B.A., Wittenberg University, M.B.A., Miami University; Ph.D., University of Cincinnati
- Kleinfeld, Gerald R.** (1962), Professor of History, B.A., New York University; M.A., University of Michigan, Ph.D., New York University
- Klett, Mark C.** (1982), Associate Fine Arts Specialist, School of Art, B.S., St. Lawrence University, M.F.A., State University of New York, Buffalo
- Kliwer-Britton, Darleen** (1975), Professor of Music, B.M.E., Bethany College; M.M., Wichita State University
- Klock, John W.** (1960), Professor Emeritus of Engineering; B.E., University of Southern California, M.S., Ph.D., University of California, Berkeley
- Klopatek, Carole Coe** (1992), Assistant Research Professor, Microbiology, B.S., Ph.D., Arizona State University
- Klopatek, Jeffrey M.** 1981, Professor of Botany, B.S., M.S., University of Wisconsin, Milwaukee; Ph.D., University of Oklahoma
- Knapp, Margaret M.** 1990, Professor of Theatre; B.A., LeMoyne College, M.A., Ph.D., City University of New York
- Knaupp, Jonathan E.** 1970, Associate Professor of Elementary Education; B.S., Oregon State University, M.A., Ph.D., University of Illinois
- Knauth, L. Paul** (1979), Professor of Geology, B.A., University of Chicago, Ph.D., California Institute of Technology
- Kneer, Dan C.** (1981), Associate Professor of Accountancy, B.S., University of Evansville; M.A., Ph.D., University of Missouri, Columbia; C.P.A., California, Missouri
- Knight, Donald O.** (1981), Professor Emeritus of Engineering; B.E.E., Marquette University; M.S.E., Ph.D., Arizona State University
- Knight, George P.** (1986), Professor of Psychology, B.A., Macalester College; M.A., Ph.D., University of California, Riverside
- Knight, Leland W.** (1978), Professor Emeritus of Design; B.P.A., Art Center College of Design, M.F.A., Stanford University
- Knipping, Uwe Fred** (1988), Associate Research Professional, Physics and Astronomy, B.Sc., University of Cologne (West Germany)
- Knowlton, John F.** 1964, Professor Emeritus of Spanish, B.A., Lewis and Clark College; M.A., Ph.D., University of Oregon
- Knox, Robert L.** (1963), Professor of Economics, B.S., M.S., Oklahoma State University, Ph.D., University of North Carolina
- Knudsen, Frances S.** 1964, Professor Emeritus of Nursing; B.S., University of Arizona; M.S., University of Colorado, Ph.D., Arizona State University
- Kobes, Bernard W.** (1986), Associate Professor of Philosophy; B.A., Calvin College, M.A., Ph.D., University of California, Los Angeles
- Koeneman, James B.** 1984, Adjunct Professor of Bioengineering, B.S., University of Minnesota; M.S., Ph.D., Case Western Reserve University
- Koerner, Kurt J.** 1993, Faculty Associate of Construction; B.S., US Air Force Academy, M.S., Golden Gate University
- Kommenich, Pauline** (1984), Associate Professor of Nursing, B.S., Stanford University, M.N., University of Washington, M.A., Ph.D., University of Arizona
- Konomos, Philip J.** (1991), Assistant Learning Resources Specialist, Library Instruction, Systems, and Technology (L.I.S.T.); B.S., M.Ed., Arizona State University
- Koonce, Frank W.** (1978), Professor of Music, B.M., North Carolina School of the Arts, M.M., Southern Methodist University
- Koret, Peter** (1995), Instructor of Thai, B.A., Bard College; Ph.D., University of London (United Kingdom)
- Koss-Chioino, Joan D.** 1992, Professor of Anthropology; B.F.A., Temple University, M.A., Ph.D., University of Pennsylvania
- Kostelich, Eric** (1989), Associate Professor of Mathematics, B.S., University of North Carolina, M.S., Ph.D., University of Maryland, College Park
- Kouris, Demetris A.** (1987), Associate Professor of Engineering, Diploma in Civil Engineering, National Technical University of Athens (Greece); M.S., Illinois Institute of Technology, Ph.D., Northwestern University
- Kouvetakis, John** (1992), Assistant Professor of Chemistry and Biochemistry, B.S., Ph.D., University of California, Berkeley
- Kozacik, Dorothy Piercey** (1968), Professor Emeritus of Education, B.A., College of St. Francis; M.A., Arizona State University; Ph.D., University of Arizona
- Kozicki, Michael** 1986, Associate Professor of Electrical Engineering; B.S., Ph.D., University of Edinburgh (Scotland)
- Krahenbuhl, Gary S.** (1973), Professor of Exercise Science and Physical Education, Dean, College of Liberal Arts and Sciences, B.S., M.S., Northern Illinois University, Ed.D., University of Northern Colorado

- Krajcinovic, Dusan** (1989), Professor of Engineering, B.Sc., M.Sc., University of Belgrade (Yugoslavia), Ph.D., Northwestern University
- Krause, Stephen J.** (1981), Professor of Engineering, B.S., Northwestern University, M.S., Illinois Institute of Technology; Ph.D., University of Michigan
- Kreitner, Robert J. III** (1975), Senior Lecturer of Management, B.S., M.B.A., University of Nebraska, Omaha; Ph.D., University of Nebraska, Lincoln
- Krinsley, David** (1976), Professor Emeritus of Geology, Ph.D., S.B., S.M., Ph.D., University of Chicago
- Kroeger, Michael** (1990), Associate Professor of Art, B.S., University of Cincinnati; M.F.A., Rhode Island School of Design
- Kroelinger, Michael D.** (1980), Professor of Design; B.S., University of Alabama; M.S., Ph.D., University of Tennessee, Knoxville
- Kroloff, Reed A.** (1987), Assistant Professor of Architecture, Undergraduate Coordinator, School of Architecture, B.A., Yale University, M.Arch., University of Texas, Austin
- Kronenfeld, Jennie J.** (1990), Professor of Health Administration and Policy, B.A., University of North Carolina, Chapel Hill; M.A., Ph.D., Brown University
- Kronengold, Eric A.** (1970), Associate Professor of Art; B.A., M.A., San Francisco State University
- Krueger, Janelle** (1984), Professor Emeritus of Nursing; Dean Emeritus, College of Nursing, B.S., M.S., Ph.D., University of Colorado
- Krus, David J.** (1975), Professor of Psychology in Education, B.A., M.A., Charles University; Ph.D., University of Minnesota, Twin Cities
- Krzys, Katherine J.** (1990), Assistant Archivist, Special Collections; B.A., California State University, Hayward, M.F.A., Arizona State University
- Kuang, Yang** (1988), Associate Professor of Mathematics, B.S., University of Science and Technology (China), Ph.D., University of Alberta (Canada)
- Kuby, Michael** (1988), Associate Professor of Geography, B.A., University of Chicago, Ph.D., Boston University
- Kuester, James L.** (1969), Professor of Engineering; B.S., University of Texas, Austin, M.E., Ph.D., Texas A&M University
- Kuiper, Hendrik J.** (1971), Professor of Mathematics, B.S., University of Wisconsin, Milwaukee, M.S., M.A., Ph.D., University of Wisconsin, Madison
- Kulhavy, Raymond W.** (1971), Regents' Professor of Psychology in Education; A.B., M.A., California State College, San Diego; Ph.D., University of Illinois
- Kulis, Stephen** (1984), Associate Professor of Sociology, B.A., George Washington University; M.A., Ph.D., Columbia University
- Kulkarni, Uday R.** (1988), Assistant Professor of Information Systems; B.Tech., Indian Institute of Technology (India); M.B.A., Indian Institute of Management (India), Ph.D., University of Wisconsin, Milwaukee
- Kumar, Ajith** (1991), Professor of Marketing; B.S., Indian Institute of Technology (India); Postgraduate Diploma, Indian Institute of Management (India), Ph.D., University of Massachusetts
- Kurpius, Sharon E.** (1978), Professor of Counseling Psychology, B.S., M.S., University of Wisconsin, LaCrosse; Ph.D., Indiana University, Bloomington
- Kuo, Chen-Yuan** (1986), Associate Professor of Engineering, B.S., National Taiwan University (Taiwan), M.S., Northwestern University; Ph.D., University of California, Berkeley
- Kurtz, Lynn C.** (1967), Associate Professor of Mathematics; B.S., South Dakota School of Mines and Technology; M.S., Ph.D., University of Utah
- Kyselka, Christine K.** (1990), Assistant Administrative Professional, College of Extended Education; Assistant Director, Distance Learning Technology, B.S., M.P.A., Arizona State University
- Laananen, David** (1983), Associate Professor of Engineering, B.S., Worcester Polytechnic Institute; M.S., Ph.D., Northeastern University
- Laetz, Hans G.** (1964), Professor Emeritus of German, A.B., University of California, Berkeley, A.M., Ph.D., Stanford University
- LaFaro, Lydia E.** (1988), Associate Librarian, Reference Service, B.S., Georgetown University; M.L.S., Emory University
- Lafford, Barbara** (1980), Associate Professor of Spanish; B.A., Middlebury College, M.A., Ph.D., Cornell University
- Lafford, Peter** (1995), Research Specialist, Languages and Literatures
- Lai, Richard T.** (1973), Professor of Planning and Landscape Architecture, A.B., M.F.A., Princeton University, Ph.D., University of Pennsylvania
- Lake, Robert L.** (1958), Professor Emeritus of Mathematics; B.S., South Dakota School of Mines and Technology; M.A., Arizona State University
- Lamm, Robert C.** (1959), Professor Emeritus of Humanities Education and Music, B.M., University of Louisville; M.M., University of Arizona; Ph.D., Indiana University, Bloomington
- Lan, Zhiyong** (1991), Assistant Professor of Public Affairs; B.A., Nanjing University (China), M.P.A., North Carolina State University, Raleigh; Ph.D., Syracuse University
- Landeira, Ricardo L.** (1962), Professor Emeritus of Spanish; Bachiller Universitario, University of Santiago (Spain); Maestro Nacional, Normal School of Santiago (Spain); Ph.D., University of Colorado
- Landers, Daniel M.** (1981), Regents' Professor of Exercise Science and Physical Education; B.A., San Jose State College; M.S., Ph.D., University of Illinois
- Landers, Donna M.** (1988), Lecturer of Exercise Science and Physical Education; Undergraduate Advisor, B.S., State University of New York, Brockport; M.S., University of Washington
- Landrum, Leslie R.** (1986), Herbarium Curator, Botany, B.S., Syracuse University; M.S., Ph.D., University of Michigan
- Lane, Alfred, SGM** (1994), Instructor of Military Science
- Laner, Mary R.** (1976), Professor of Sociology; Associate Chair, Sociology, B.A., University of Chicago; M.A., University of New Mexico; Ph.D., Virginia Polytechnic Institute and State University
- Lanyon, Richard I.** (1975), Professor of Psychology; B.E., University of Adelaide (Australia), M.A., Ph.D., University of Iowa
- LaPointe, Leonard L.** (1984), Professor of Speech and Hearing Science; Chair, Department of Speech and Hearing Science; B.A., Michigan State University, M.A., Ph.D., University of Colorado
- Larimer, John W.** (1969), Professor of Geology, B.A., M.S., Ph.D., Lehigh University
- Larson, Milagro** (1995), Instructor of Spanish; B.A., Utah State University, M.A., University of New Mexico, Albuquerque; Ph.D., Arizona State University

- Larson-Bennett, Donna Rae** (1972), Law Librarian, Government Documents; B.A., M.A.L.S., University of Michigan
- Lastovicka, John L.** (1992), Professor of Marketing, B.S., M.S., Ph.D., University of Illinois
- Latz, Martin E.** (1995), Faculty Associate of Law, B.A., University of Wisconsin, Madison, J.D., Harvard University
- Lauderdale, Pat** (1981), Professor of Justice Studies; B.A., University of Oklahoma; M.A., University of Texas, Austin, M.A., Ph.D., Stanford University
- Lavrin, Asunción** (1995), Professor of History; B.A., University of Havana; M.A., Radcliff, Ph.D., Harvard
- Lawler, Eugene D.** (1967), Professor Emeritus of Technology; B.S., Northern State College; M.A., Arizona State University
- Lawson, Anton E.** (1977), Professor of Zoology; B.S., University of Arizona; M.A., University of Oregon, Ph.D., University of Oklahoma
- Lea, John H.** (1980), Senior Lecturer of Management; B.S., M.B.A., Arizona State University
- Leathers, Chester R.** (1957), Professor Emeritus of Microbiology; B.S., Eastern Illinois University, M.S., Ph.D., University of Michigan
- LeCroy, Craig** (1984), Professor of Social Work; B.S.W., San Jose State University; M.S.W., Western Michigan University, Ph.D., University of Wisconsin, Madison
- Lederer, Naomi** (1989), Associate Librarian, Library Instructional Services Technology (L.I.S.T.); B.A., Carleton College, M.A., Arizona State University; M.S.L.I.S., University of Illinois
- Lee, Tae-woo** (1993), Assistant Professor of Engineering, B.S., Ohio State University; M.S.E., Ph.D., University of Michigan
- Lefevre, Mary Anne** (1990), Clinical Faculty Assistant of Clinical Laboratory Sciences; B.S., Arizona State University; M.A., Central Michigan University
- Lehman, James P.** (1985), Associate Research Professional, Chemistry and Biochemistry; B.S., M.S., Miami University; Ph.D., University of Cincinnati
- Leibold, Anne M.** (1977), Librarian Emeritus, Reference Service; M.A., University of Paris (France)
- Leigh, Frederic A.** (1979), Clinical Associate Professor of Journalism and Telecommunication, Associate Director, Walter Cronkite School of Journalism and Telecommunication; B.A., University of South Dakota; M.A., University of Iowa, Ed.D., Arizona State University
- Lemmon, Michael L.** (1995), Assistant Professor of Finance; B.S., M.S., Ph.D., University of Utah
- Lentz, Richard G.** (1985), Associate Professor of Journalism and Telecommunication, A.B., University of North Alabama; M.A., Southern Illinois University, Carbondale; Ph.D., University of Iowa
- Leonard, Donald J.** (1974), Associate Professor of Management Communication; B.S., M.B.A., Nicholls State University, Ph.D., Louisiana State University
- Leonard, Philip A.** (1968), Professor of Mathematics; A.B., Boston College, M.A., Ph.D., Pennsylvania State University
- Leshowitz, Barry H.** (1970), Associate Professor of Psychology; B.S., M.A., Brooklyn College, Ph.D., City University of New York
- Leshy, John D.** (1980), Professor of Law; A.B., J.D., Harvard University
- Lessard, Elizabeth C.** (1969), Professor of Dance, B.S., Georgia College, M.A., Ph.D., Texas Woman's University
- Levan, Frederick D.** (1965), Associate Professor of Educational Administration and Supervision; B.S., M.Ed., Pennsylvania State University; Ed.D., Oklahoma State University
- Levine, Gustav** (1967), Professor Emeritus of Psychology; B.A., M.A., College of the City of New York; Ph.D., Columbia University
- Levy, David I.** (1991), Adjunct Assistant Professor of Bioengineering, B.S., Valdosta State College; M.D., Emory University School of Medicine
- Lewis, Charles F.** (1963), Research Specialist Emeritus, Center for Meteorite Studies; B.A., Adams State College
- Lewis, Joseph Perley** (1972), Professor Emeritus of General Business; B.A., University of Arizona; J.D., University of Colorado
- Lewis, William E.** (1965), Professor of Computer Science and Engineering; Vice Provost for Information Technology; B.S.E., Johns Hopkins University; M.S., Ph.D., Northwestern University
- Leyba, Raul L.** (1970), Associate Professor of Social Work; B.A., Western New Mexico University; M.S.W., University of Denver
- Liddell, Paul A.** (1990), Assistant Research Professional, Chemistry and Biochemistry; B.Sc., Massey University (New Zealand); Ph.D., Arizona State University
- Lie, Gwat** (1985), Associate Professor of Social Work; B.S.Sc., University of Singapore (Singapore); M.S.W., University of Wisconsin, Milwaukee; Ph.D., University of Wisconsin, Madison
- Lightfoot, Marjorie J.** (1964), Professor of English; B.A., Brown University; M.A., Ph.D., Northwestern University
- Lin, Sheng H.** (1965), Regents' Professor of Chemistry and Biochemistry; B.S., M.S., National Taiwan University (Taiwan); Ph.D., University of Utah
- Lindauer, Owen** (1989), Research Assistant Professor of Anthropology; B.A., State University of New York, Binghamton; M.A., Ph.D., Arizona State University
- Linder, Darwyn E.** (1972), Professor of Psychology; B.A., Macalester College; Ph.D., University of Minnesota, Twin Cities
- Linderman, Earl W.** (1966), Professor Emeritus of Art; B.S., State University of New York College, Buffalo, M.Ed., Ed.D., Pennsylvania State University
- Lindquist, Timothy** (1985), Associate Professor of Computer Science and Engineering, B.S., Purdue University; M.S., Ph.D., Iowa State University
- Lindsay, Stuart M.** (1978), Professor of Physics and Astronomy; B.Sc., Ph.D., University of Manchester (England)
- Lindstrom, Frederick B.** (1953), Professor Emeritus of Sociology; Consultant, Department of Sociology; A.B., A.M., Ph.D., University of Chicago
- Lineberry, Heather** (1990), Assistant Museum Professional; Curator, University Art Museum; M.A., University of Texas, Austin
- Linton, Marigold L.** (1986), Administrative Professional, Education; Director, Educational Services; B.A., University of California, Riverside, Ph.D., University of California, Los Angeles
- Lipari, Charles A.** (1995), Assistant Professor of Electronics and Computer Technology; B.S.E.E., M.S.E.E., University of Southwestern Louisiana; Ph.D., Louisiana State University
- Liskovec, Richard F.** (1958), Professor Emeritus of Mathematics; B.S., M.A., Kent State University
- Liss, Julie N.** (1994), Assistant Professor of Speech and Hearing Science; B.A., University of Wisconsin, Madison; M.A., University of Denver; Ph.D., University of Wisconsin, Madison
- Liu, C.H.** (1965), Professor Emeritus of Chemistry and Biochemistry; B.A., Ph.D., University of Illinois

- Liu, Danny D.** (1982), Professor of Engineering; B.S., National Taiwan University (Taiwan); M.S., Georgia Institute of Technology, Ph.D., University of Southampton England)
- Liu, Jingyue** (1990), Assistant Research Scientist, Center for Solid State Science; B.Sc., Beijing University of Science and Technology (China), Ph.D., Arizona State University
- Liu, Marjory Bong-Ray** (1973), Professor Emeritus of Philosophy, B.M., Alverno College; M.M., University of Southern California, C.Phil., Ph.D., University of California, Los Angeles
- Livingston, Donald E. Jr.** (1987), Faculty Associate of Languages and Literatures; B.A., M.A., University of Arizona
- Livneh, Rafael** (1990), Assistant Research Scientist, Mechanical and Aerospace Engineering; B.Sc., Technion Institute of Technology (Israel); M.Sc., Ph.D., University of Cincinnati
- Lo, Edisanter** (1990), Associate Research Specialist, Geology, B.S., Louisiana Technology Institute; M.S., University of Arkansas, Ph.D., Arizona State University
- LoBrutto, Russell** (1991), Assistant Research Scientist, Botany; B.A., Cornell University; Ph.D., State University of New York, Buffalo
- Lock, Ethan** (1981), Associate Professor of Legal and Ethical Studies; B.A., University of California, Berkeley, M.B.A., Arizona State University; J.D., University of North Carolina, Chapel Hill
- Lockwood, Ralph G.** (1972), Professor of Music, B.M., Baldwin Wallace College; M.M., New England Conservatory of Music
- Logan, Earl Jr.** (1963), Professor Emeritus of Engineering; B.A., M.A., Arizona State University, B.S.M.E., M.S.M.E., Texas A&M University; Ph.D., Purdue University
- Lohr, Dennis E.** (1979), Professor of Chemistry and Biochemistry; B.S., Beloit College; Ph.D., University of North Carolina, Chapel Hill
- Lohr, Sharon** (1990), Associate Professor of Mathematics; B.S., Calvin College; Ph.D., University of Wisconsin, Madison
- Lombardi, Eugene P.** (1957), Professor Emeritus of Music, B.Mus.Ed., Westminster College; M.A., Columbia University; Ed.S., George Peabody College; D.M., Westminster College
- Long, Carol** (1989), Faculty Associate of Nursing; B.S.N., Marquette University; M.S., University of Michigan
- Longley, Kyle** (1995), Assistant Professor of History, B.A., Angelo State University; M.A., Texas Technological, Ph.D., University of Kentucky
- Loope, R. Nicholas** (1990), Associate Professor of Architecture; B.Arch., University of Maryland, College Park; M.Arch., Yale University, P.M.D., Harvard University
- Lopez-Lazaro, Fabio** (1995), Assistant Professor of Interdisciplinary Humanities, B.A., University of Western Ontario (Canada); M.A., Simon Fraser University (Canada); Ph.D., University of Toronto (Canada)
- Losse, Deborah N.** (1973), Professor of French; Associate Dean, Graduate College; B.A., Connecticut College; M.A., Ph.D., University of North Carolina, Chapel Hill
- Lougeay, Ray** (1993), Adjunct Professor of Geography; B.A., Rutgers, The State University, M.S., Ph.D., University of Michigan
- Lounsbury, John F.** (1969), Professor Emeritus of Geography; B.S., M.S., University of Illinois; Ph.D., Northwestern University
- Loveless, Richard L.** (1991), Professor of Art; Director, Institute for Studies in the Arts, M.Ed., Pennsylvania State University
- Low, Stuart A.** (1979), Professor of Economics, B.S., M.S., Ph.D., University of Illinois
- Lowe, John W.** (1956), Professor Emeritus of Economics; B.S., Arizona State University; M.S., University of Wisconsin, Madison; Ph.D., University of Florida
- Lowe, Robert W.** (1966), Professor Emeritus of Romance Languages; M.A., Columbia University; Doctorat, University of Paris (France)
- Lowenthal, Gary T.** (1976), Professor of Law; A.B., Harvard College, J.D., University of Chicago
- Lu, Pao** (1964), Professor Emeritus of Physics and Astronomy; B.S., National Taiwan University (Taiwan); M.S., National Tsing Hua University (Taiwan); Ph.D., Iowa State University
- Luchsinger, Wayne W.** (1966), Professor Emeritus of Chemistry and Biochemistry; B.S., M.S., Ph.D., University of Minnesota, Twin Cities
- Luckingham, Bradford F.** (1971), Professor of History; B.S., Northern Arizona University; M.A., University of Missouri, Columbia; Ph.D., University of California, Davis
- Ludemann, Ruth S.** (1984), Professor of Nursing; B.S.N., Columbia University; M.S.N., Wayne State University; Ph.D., Arizona State University
- Luderer, Gottfried W.R.** (1990), Professor Emeritus of Engineering, M.S.E., Ph.D., Technical University Braunschweig (West Germany)
- Ludlow, Elizabeth A.** (1972), Professor Emeritus of Nursing, B.S.N., University of New Mexico, M.S., Arizona State University
- Ludwig, Ann** (1979), Professor of Dance; B.S., North Dakota State University, M.S., University of Kansas
- Luenow, Paul F. Jr.** (1958), Professor Emeritus of Foreign Languages; B.A., M.A., University of Washington; Ph.D., University of New Mexico
- Luey, Beth** (1980), Senior Instructional Professional of History; Director, Historical Editing and Publishing; B.A., Radcliffe College; A.M., Harvard University
- Lujan, Carol C.** (1987), Associate Professor of Justice Studies; B.A., M.A.P.A., Ph.D., University of New Mexico
- Lundberg, Horace W.** (1962), Professor Emeritus of Social Work; Dean Emeritus, School of Social Work; B.S., M.S., University of Utah; M.S.W., University of California, Berkeley, Ph.D., University of Minnesota, Twin Cities
- Luninwiber, Kurt** (1994), Assistant Research Professional of Chemistry and Biochemistry; B.S., Brown University; Ph.D., Princeton University
- Lundgren, Harry R.** (1962), Professor Emeritus of Engineering; B.S.C.E., Purdue University; M.S., Arizona State University; Ph.D., Oklahoma State University
- Lundin, Robert F.** (1962), Professor Emeritus of Geology; B.A., Augustana College; M.S., Ph.D., University of Illinois
- Lussier, Mark S.** (1994), Assistant Professor of English; B.A., University of St. Thomas; M.A., Ph.D., Texas A&M University
- Lynch, David H.** (1976), Associate Professor of Management Communication, B.S., University of Illinois; M.S., Ed.D., Northern Illinois University
- Lyne, Gregory K.** (1993), Professor of Music, B.M., Washburn University of Topeka; M.S., Kansas State University of Agriculture and Applied Science; D.M.A., University of Northern Colorado
- Lytle, Robert G.** (1972), Professor Emeritus of Agribusiness and Resource Management; B.S., Western Kentucky University; M.S., Arizona State University

- Lyubchenko, Yuri L.** (1992), Associate Research Professor, Microbiology; D.Sc., Institute of Molecular Genetics USSR; M.S., Ph.D., Moscow Physical Technical Institute (USSR)
- Maas, Gerald M.** (1991), Adjunct Professor of Recreation Management and Tourism, Director, Recreational Sports and Student Activities, B.S., University of Wisconsin, Superior, M.A., Ph.D., University of Minnesota, Twin Cities
- Maarsingh, Norma J.** (1964), Professor Emeritus of Physical Education; B.S., M.S., University of Southern California
- MacCracken, Harriet** (1995), Senior Lecturer of Accountancy
- MacEachron, Ann** (1984), Professor of Social Work; B.A., Cornell University; M.S.W., University of Pittsburgh; Ph.D., Cornell University
- Macey, Donna J.** (1994), Clinical Associate Professor, B.A., DePaul University M.A., St. John's College, M.A., M.S.T., University of Chicago Ph.D., Northwestern University
- Macia, Narciso F.** (1990), Assistant Professor of Electronics and Computer Technology; B.S., M.S., University of Texas, Arlington; Ph.D., Arizona State University
- MacKinnon, David** (1990), Associate Professor of Psychology, B.A., Harvard University, M.A., Ph.D., University of California, Los Angeles
- MacKinnon, Stephen R.** (1971), Professor of History, B.A., M.A., Yale University; Ph.D., University of California, Davis
- Mackulak, Gerald T.** (1980), Associate Professor of Engineering; B.S.I.E., M.S.I.E., Ph.D., Purdue University
- Madden, Dennis D.** (1990), Assistant Archivist, Architecture Library; B.A., Wright State University; M.A., Colorado State University
- Madden-Derdich, Debra** (1994), Assistant Professor of Family Resources and Human Development; B.A., Washington and Jefferson College; M.A., Hollins College, Ph.D., Virginia Polytechnic Institute and State University
- Maddox, Robert A.** (1993), Adjunct Professor of Geography, B.S., Texas A&M University; M.S., Ph.D., Colorado State University
- Maddox, W. Todd** (1993), Assistant Professor of Psychology; B.A., San Diego State University, M.A., Ph.D., University of California, Santa Barbara
- Maddy, Kenneth H.** (1980), Professor Emeritus of Agribusiness and Resource Management, B.S., Pennsylvania State University, M.S., University of Wisconsin, Madison, Ph.D., Pennsylvania State University
- Magenta, Muriel** (1969), Professor of Art, B.A., Queens College, M.A., M.F.A., Ph.D., Arizona State University
- Magers, William D.** (1971), Professor of Music, B.A., University of California, Santa Barbara, M.M., D.M.A., University of Southern California
- Magill, Harry T.** (1990) Senior Lecturer of Accountancy, B.A., Miami University M.A., University of Illinois
- Mahalov, Alex S.** (1991), Assistant Professor of Mathematics; M.S., Leningrad University (Soviet Union); Ph.D., Cornell University
- Mahoney, Dhira B.** (1989), Associate Professor of English, B.A., M.A., University of Oxford (England); Ph.D., University of California, Santa Barbara
- Mahrt, James L.** (1989), Research and Evaluation Coordinator, Arizona Prevention Resource Center, College of Extended Education, B.A., Bob Jones University, M.A., Michigan State University
- Maienschein, Jane** (1981), Professor of Philosophy and Zoology; Chair, Department of Philosophy; B.A., Yale University; M.A., Ph.D., Indiana University, Bloomington
- Maisel, James** (1985), Professor of Technology, B.Eng. Sci., B.E.E., Fenn College; M.S.E.E., Ohio State University
- Major, Roy C.** (1992), Associate Professor of English; B.A., University of Akron; M.A., University of Arizona; M.A., Ph.D., Ohio State University
- Malatesta, Linda G.** (1995), Faculty Associate of Nursing; B.S.N., M.S., Arizona State University
- Malone, Charles F.** (1966), Professor Emeritus of Elementary Education; B.S., Emporia State University, M.Ed., Ed.D., University of Kansas
- Mamlouk, Michael S.** (1984), Professor of Engineering; B.S.C.E., Cairo University (Egypt); M.S.C.E., Ph.D., Purdue University
- Manera, Elizabeth S.** (1967), Professor Emeritus of Secondary Education; B.S., M.A., Towson State College; Ed.D., Arizona State University
- Mangini, Margaret A.** (1990), Associate Administrative Professional, Bureau of Educational Research and Services, Director, Bureau of Educational Research and Services; B.S., M.Ed., Edinboro State College; Ed.D., Arizona State University
- Manion, Patrick W.** (1980), Faculty Associate of Public Affairs, B.A., M.P.A., Arizona State University
- Mankin, Lawrence D.** (1973), Professor of Public Affairs, Special Assistant to the President for Administration; B.B.A., City College; M.A., Ph.D., University of Illinois
- Manore, Melinda M.** (1984), Associate Professor of Family Resources and Human Development, B.S., Seattle Pacific University; M.S., University of Oregon, Ph.D., Oregon State University
- Manz, Charles C.** (1988), Professor of Management; B.A., M.B.A., Michigan State University; Ph.D., Pennsylvania State University
- Marcus, Melvin G.** (1974), Professor of Geography; B.A., University of Miami, M.A., University of Colorado; Ph.D., University of Chicago
- Margolis, Eric** (1995), Assistant Professor of Educational Leadership and Policy Studies; B.A., State University of New York at New Paltz, Ph.D., University of Colorado, Boulder
- Marin, Christine N.** (1985), Associate Archivist, Archives and Manuscripts, B.A., M.A., Arizona State University
- Markiw, Michael** (1990), Associate Librarian, Original Cataloging, B.A., University of Alberta, M.L.S., University of Western Ontario
- Markow, Therese Ann** (1977), Regents' Professor of Zoology, B.S., Ph.D., Arizona State University
- Marohnic, Charles S.** (1981), Professor of Music; Director, Jazz Studies; B.A., M.M., University of Miami
- Marsh, Paul C.** (1980), Research Professor, Center for Environmental Studies, B.A., M.S., University of Connecticut, Ph.D., University of Minnesota, Twin Cities
- Marshall, Catherine** (1995), Assistant Professor of German, A.B., Kenyon College; M.A., Ph.D., University of Cincinnati
- Marsiglia, Flavio F.** (1994), Assistant Professor of Social Work; B.Law and S.S., José Enrique Rodó Preparatory School; M.S.W., Escuela Universitaria de Servicio Social, Universidad de la Republica; Ph.D., Case Western Reserve University
- Martin, Carol L.** (1988), Associate Professor of Family Resources and Human Development; B.A., University of Georgia; M.S., Rutgers University, The State University; Ph.D., University of Georgia

- Martin, Chris** (1990), Assistant Professor of Botany; B.S., California Polytechnic State University and University of Southern California; M.S., Auburn University
- Martin, John F. Jr.** (1966), Professor of Anthropology; B.A., Beloit College, M.A., Ph.D., University of Chicago
- Martin, Judith N.** (1990), Associate Professor of Communication; B.A., Eastern Mennonite College; M.A., Ph.D., Pennsylvania State University
- Martin, Linda J.** (1980), Associate Professor of Finance; B.A., University of Louisville; M.S., University of Kansas; M.B.A., D.B.A., Louisiana Technological University
- Martin, Philip E.** (1983), Associate Professor of Exercise Science and Physical Education, B.S., M.S., University of Illinois; Ph.D., Pennsylvania State University
- Martin, Rose L.** (1990), Lecturer of Family Resources and Human Development; B.S., University of Illinois; M.S., Pennsylvania State University
- Martínez, Quino E.** (1957), Professor Emeritus of Foreign Languages; B.S., New Mexico Western College; M.A., George Peabody College; Ph.D., University of North Carolina, Chapel Hill
- Martinez-Brawley, Emilia E.** (1992), Professor of Social Work; Dean, School of Social Work; B.A., National University of Tucumán (Argentina); M.S., Bryn Mawr College, Ed.D., Temple University
- Marzke, Mary** (1978), Associate Professor of Anthropology; B.A., University of California, M.A., Columbia University; Ph.D., University of California, Berkeley
- Marzke, Robert F.** (1969), Associate Professor of Physics and Astronomy; A.B., Princeton University, Ph.D., Columbia University
- Mason, Bruce B.** (1960), Professor Emeritus of Political Science; B.S., North Texas State College, M.A., Texas Christian University, Ph.D., University of Texas, Austin
- Mason, Marshall W.** (1994), Professor of Theater, B.S., Northwestern University
- Mass, Diana** (1974), Clinical Faculty of Clinical Laboratory Sciences; B.S., University of Texas, Austin; M.S., Central Michigan University
- Matas, Katherine** (1985), Assistant Professor of Nursing; B.S.N., Loyola University; M.S., Arizona State University; Ph.D., Case Western Reserve University
- Matera, Frances R.** (1989), Associate Professor of Journalism and Telecommunication; B.S., Florida International University; M.A., Goddard College; Ph.D., University of Miami
- Matheson, Alan A.** (1967), Professor of Law; B.A., M.S., J.D., University of Utah
- Matson, John H.** (1978), Associate Professor of Manufacturing and Industrial Technology, B.S., M.S., Illinois State University
- Matt, Kathleen S.** (1987), Assistant Professor of Exercise Science and Physical Education; B.A., M.S., University of Delaware, Ph.D., University of Washington
- Matt, Pamela** (1980), Associate Professor of Dance, Acting Chair, Department of Dance, B.A., University of Washington; M.A., University of Illinois
- Matthews, James B.** (1989), Professor Emeritus of Aeronautical Technology, B.S., Rose Hulman Institute of Technology; M.S., Massachusetts Institute of Technology; Ph.D., University of Arizona
- Mathias, Judson S.** (1967), Professor of Engineering, B.S., United States Military Academy; M.S., Oregon State University; Ph.D., Purdue University
- Mattox, John H.** (1995), Adjunct Faculty of Zoology, B.A., M.D., University of Colorado
- Mattson, Susan** (1993), Associate Professor of Nursing; B.S., M.S., California State University, Los Angeles; Ph.D., Claremont Graduate School
- Maxwell, Kathryn** (1988), Associate Professor of Art; B.A., Northwestern University; M.F.A., University of Wisconsin, Madison
- Mayer, James W.** (1992), Regents' Professor of Chemical, Bio and Materials Engineering, Director, Center for Solid State Science; B.S., Ph.D., Purdue University
- Mayer, Lawrence S.** (1983), Professor of Statistics; B.S., M.S., Ohio State University, M.B., Associated Medical Schools of the Caribbean; Ph.D., Ohio State University
- Mayer, Michael** (1978), Associate Professor of Communication; B.A., M.A., University of Wyoming; Ph.D., University of Kansas
- Mayfield, Jack K.** (1990), Adjunct Professor of Engineering, A.B., Indiana University, Indianapolis; M.S., Medical College of Wisconsin; M.D., Indiana University, Indianapolis
- Mayo, Richard E.** (1991), Associate Professor of Construction, B.S., United States Military Academy; M.S., Purdue University, M.S., Rensselaer Polytechnic Institute; Ph.D., Stevens Institute
- Mays, Larry W.** (1989), Professor of Engineering, Chair, Department of Civil and Environmental Engineering; B.S., M.S., University of Missouri, Rolla; Ph.D., University of Illinois
- Mazen, S. David** (1970), Professor Emeritus of Counselor Education; B.A., Whitworth College; M.Ed., Eastern Washington State College; Ed.D., Washington State University
- McAllister, Linda A.** (1993), Assistant Museum Professional/Senior Curator, University Art Museum, B.A., University of California, San Diego; M.A., Arizona State University
- McBrien, Edward F.** (1986), Associate Professor of Technology, B.S.E., Fenn College; M.S.E.E., Cleveland State University
- McCabe, Susan** (1994), Assistant Professor of English; B.A., M.A., Ph.D., University of California, Los Angeles
- McCarthy, Marianne** (1994), Assistant Professor of Nursing; B.S.N., Mount St. Mary College, M.S., Seton Hall University, Ph.D., University of California, San Francisco
- McCarter, Joan H.** (1961), Associate Professor of Mathematics; B.S., M.A., University of Arizona
- McCarthy, Marianne** (1994), Assistant Professor of Nursing; B.S.N., Mt. St. Mary College; M.S.N., Seton Hall University; Ph.D., University of California, San Francisco
- McCartney, Martha R.** (1989), Research Scientist, Center for Solid State Science; B.S., The Evergreen State College, Ph.D., Arizona State University
- McCartney, Peter H.** (1992), Research Assistant Professor of Anthropology; B.A., M.A., University of Arizona; Ph.D., University of Calgary
- McCoy, Kathleen M.** (1976), Associate Professor of Special Education; B.S., University of Portland; M.S., Portland State University; Ph.D., University of Oregon
- McCoy, Ron** (1995), Professor of Architecture; Director, School of Architecture; B.S., University of Southern California; M.Arch., Princeton University
- McCready, Richard R.** (1960), Professor Emeritus of Decision and Information Systems, B.S., Valley City State Teachers College; M.A., Ed.D., University of Northern Colorado
- McCurry, William K.** (1995), Associate Professor of Aeronautical Technology; B.S., Purdue University; M.S., Troy State University, Ph.D., University of Kansas
- McDermott, Lauren** (1990), Assistant Professor of Design; B.F.A., M.F.A., Rochester Institute of Technology

- McDonald, Arlys** (1970), Librarian Emeritus, Music Library, B.Mus., St. Mary of the Plains College; M.Mus., University of Illinois
- McDonald, John N.** (1969), Professor of Mathematics; A.B., King's College; M.S., Ph.D., Rutgers, The State University
- McDonough, Peter** (1990), Professor of Political Science; B.S., St. Louis University, Ph.D., University of Michigan
- McDowell, John M.** (1978), Professor of Economics; B.S., M.S., Ph.D., University of California, Los Angeles
- McEwen, Douglas R.** (1969), Professor Emeritus of Music; B.S., Bowling Green State University; M.M., Indiana University, Ed.D., University of Northern Colorado
- McFarland, Elaine H.** (1973), Professor Emeritus of Health Science; B.A., Marietta College, M.N., Case Western Reserve University
- McGaughey, Robert W.** (1971), Professor of Zoology, B.A., Augustana College, M.A., University of Colorado, Ph.D., Boston University
- McGaw, Dickinson L.** (1968), Professor of Public Affairs; Director, School of Public Affairs, B.A., M.A., Ph.D., Indiana University, Bloomington
- McGehee, Shelley** 1985, Librarian Emeritus, Music Library, B.Mus., Converse College; M.Mus., M.L.S., University of Alabama
- McGowan, Patrick J.** 1979, Professor of Political Science, B.A., University of the South; M.A., Johns Hopkins University; Ph.D., Northwestern University
- McGowan, Thomas M.** (1988), Associate Professor of Elementary Education; B.A., Boston University; M.A., Ph.D., University of Nebraska, Lincoln
- McGrath, G.D.** (1950), Professor Emeritus of Education; Dean Emeritus, College of Education; A.B., Findlay College, M.A., University of Michigan; Ph.D., University of Colorado
- McGregor, Joan L.** (1989), Associate Professor of Philosophy, B.A., University of California, Davis, M.A., Ph.D., University of Arizona
- McHenry, Albert L.** 1978, Professor of Technology, Director, School of Technology; B.S., Southern University and A&M College, M.S., Ph.D., Arizona State University
- McHugh, Kevin E.** 1985, Associate Professor of Geography; B.S., Pennsylvania State University, M.A., Arizona State University; Ph.D., University of Illinois
- McIntosh, Patricia G.** (1983), Associate Professor of Architecture, B.Arch., University of British Columbia (Canada), Arch.D., University of Michigan
- McIsaac, Marina Stock** (1980), Professor of Educational Media and Computers, B.A., Pomona College; M.A., Ph.D., University of Wisconsin, Madison
- McKee, Sally** (1995), Assistant Professor of History; B.A., San Francisco State University; M.A., Ph.D., University of Toronto, Canada
- McKelvy, Michael J.** (1976), Associate Research Scientist, Center for Solid State Science; B.S., University of California, Berkeley, M.S., Ph.D., Arizona State University
- McKenzie, Patrick Bruce** (1970), Professor of Accountancy, B.S., M.S., Kansas State University; Ph.D., Michigan State University, C.P.A. Kansas
- McKown, Leslie P.**, Maj. (1992), Assistant Professor of Aerospace Studies, B.S., University of Idaho, M.B.A., University of North Dakota
- McMillan, Mary Claude** (1995), Instructor of French; B.A., Université de Nancy II (France); M.A., Arizona State University
- McMillan, Paul F.** (1983), Professor of Chemistry and Biochemistry, B.Sc., University of Edinburgh (Scotland); Ph.D., Arizona State University
- McMurtry, Steven** (1987), Associate Professor of Social Work; B.A., Texas Tech University; M.S.S.W., University of Texas, Arlington, Ph.D., University of Wisconsin, Madison
- McNeill, Barry W.** (1976), Assistant Professor of Engineering; B.S., M.S., Ph.D., Stanford University
- McPheters, Lee R.** (1976), Professor of Economics, Director, Economic Outlook Center, Associate Dean for Professional Programs, College of Business; A.B., San Francisco State University; Ph.D., Virginia Polytechnic Institute
- McSheffrey, Gerald R.** (1982), Professor of Architecture; Dipl. Arch., University College, London (England); Dipl. C.D., Edinburgh University (Scotland)
- McSherry, Laurel** (1991), Assistant Professor of Planning and Landscape Architecture; B.S.L.A., Rutgers, The State University; M.L.A.I.I., Harvard University
- McTaggart, W. Donald** (1971), Professor of Geography; Director, International Programs, M.A., University of St. Andrews (Scotland); Ph.D., Australian National University (Australia)
- McWhirter, J. Jeffries** (1970), Professor of Counseling Psychology, B.A., St. Martin's College, M.Ed., Oregon State University, M.Ed., Ph.D., University of Oregon
- Mehall, Gregory Lawrence** (1992), Associate Research Specialist, Geology; M.S., Stanford University
- Meissinger, Ellen Murray** 1986, Professor of Art, B.F.A., M.F.A., University of North Carolina, Greensboro
- Melichar, Dudley W.** (1974), Professor Emeritus of Justice Studies; B.S., M.S., South Dakota State University; Ed.D., Arizona State University
- Melvin, Michael** (1980), Professor of Economics; B.B.A., University of Houston, M.A., San Diego State University, Ph.D., University of California, Los Angeles
- Melvin, Nancy** (1975), Professor of Nursing; Associate Dean for Graduate Programs and Research, College of Nursing, B.S., M.A., University of Nebraska, Lincoln, Ph.D., University of Arizona
- Méndez, José A.** (1980), Professor of Economics; B.A., M.A., University of Texas, Austin, M.A., Ph.D., Southern Methodist University
- Menéndez, José** (1987), Associate Professor of Physics and Astronomy, Licenciado en Física, Instituto, Balseiro (Argentina); Ph.D., Stuttgart University (West Germany)
- Menjivar, Cecilia** (1995), Assistant Professor of Justice Studies; B.A., M.S., University of Southern California, Ph.D., University of California, Davis
- Menke, Robert F.** 1947, Professor Emeritus of Education; B.S., Oshkosh State College, M.A., Ph.D., Northwestern University
- Merbs, Charles F.** (1973), Professor of Anthropology; B.S., M.S., Ph.D., University of Wisconsin, Madison
- Mermis, William L.** (1995), Professor of Family Resources and Human Development, Interim Chair, Department of Family Resources and Human Development, B.S., M.S., St. Louis University, Ph.D., Arizona State University
- Merrill, Bruce D.** (1971), Professor of Journalism and Telecommunication, Director, Media Research Program, M.A., Brigham Young University; Ph.D., University of Michigan

- Metcalf, V. Alonzo** (1971), Professor of International Business, B.S., M.S., University of Arkansas, Ph.D., University of Missouri, Columbia
- Metha, Arlene** (1971), Associate Professor of Counseling Psychology; B.A., Arizona State University; M.A., Ohio State University; Ph.D., University of Southern California
- Metos, Thomas H.** (1965), Professor of Educational Administration and Supervision; Director, Division of Educational Leadership and Policy Studies; Academic Program Coordinator, Educational Administration and Supervision, B.S., M.S., Ph.D., University of Utah
- Metz, John** (1980), Professor of Music; B.A., M.M., Syracuse University, D.M.A., The Juillard School
- Meunier, John** 1987, Professor of Architecture; Dean, College of Architecture and Environmental Design, B.Arch., University of Liverpool (England); M.Arch., Harvard University, M.A., University of Cambridge (England)
- Meyer, Janice Catherine** 1977, Professor of Music, B.M.E., M.M.E., University of Wisconsin, M.M., Western Michigan University, D.M., Northwestern University
- Meyerson, Lee** (1962), Regents' Professor Emeritus of Psychology; A.B., Lafayette College, A.M., University of California, Los Angeles, Ph.D., Stanford University
- Middleton, Bruce** (1990), Research Specialist, Electrical Engineering
- Middleton, James Arthur** (1994), Assistant Professor of Elementary Education; B.A., California State University, Chico, M.S., Ph.D., University of Wisconsin, Madison
- Mignolet, Marc P.** (1987), Associate Professor of Mechanical and Aerospace Engineering, B.S., University of Liege (Belgium); Ph.D., William Marsh Rice University
- Millard, Bruce R.** 1987, Associate Research Scientist, Engineering Computing Services; B.A., M.S., Washington State University; Ph.D., Arizona State University
- Miller, Barbara K.** 1976, Professor Emeritus of Nursing; B.S.N., M.S.Ed., University of Akron, Ph.D., University of Texas, Austin
- Miller, Donald S.** (1981), Associate Professor of Computer Science and Engineering, B.S., Syracuse University; M.S., Ph.D., University of Southern California
- Miller-Loessi, Karen A.** (1984), Associate Professor of Sociology, B.A., University of California, Berkeley, M.A., Ph.D., Stanford University
- Miller, Keith D.** 1987, Associate Professor of English; B.A., Texas Christian University; M.A., State University of New York, Albany, Ph.D., Texas Christian University
- Miller, Robert J.** (1994), Adjunct Faculty of Anthropology, B.A., M.A., Western Michigan University; Ph.D., Arizona State University
- Miller, Rosanna** (1974), Librarian, Head, Map Collection, B.A., M.A., Arizona State University, M.L.S., University of Arizona
- Miller, Victor J.** (1958), Professor Emeritus of Agribusiness and Resource Management, B.S., M.S., Ph.D., University of Illinois
- Miller, Warren** (1981), Regents' Professor of Political Science, B.S., M.A., University of Oregon; Ph.D., Syracuse University
- Miller, William H.** (1984), Associate Professor of Environmental Resources; B.S., M.S., Ph.D., Washington State University
- Mills, Douglas T.** 1993, Faculty Associate of Construction, B.S., Arizona State University
- Milner, Joe W.** 1967, Professor Emeritus of Journalism and Telecommunication, B.A., East Texas State University; M.A., University of Oklahoma; Ed.D., University of Wyoming
- Minckley, Wendell L.** (1963), Professor of Zoology, B.S., Kansas State University, M.A., University of Kansas; Ph.D., University of Louisville
- Minett, John** 1991, Faculty Associate of Planning and Landscape Architecture; Diploma Arch., Diploma Town Planning, University of Manchester (England); M.Litt., University of Oxford (England)
- Mings, Robert C.** (1971), Associate Professor of Geography, B.S., M.A.T., Indiana University, Bloomington, Ph.D., Ohio State University
- Minter, Marshall R. Jr.** 1965, Professor Emeritus of Technology; B.S.M.E., Purdue University, M.S.M.E., University of Arizona
- Mintz, Sandra L.** (1986), Faculty Associate of Speech and Hearing Science; B.A., Indiana University, M.S., University of Arizona
- Misra, Rajeev** 1991, Assistant Professor of Microbiology; B.S., Kanpur University (India), M.S., G.B. Pant University (India); Ph.D., Adelaide University (Australia)
- Misterek, Susan** (1995), Assistant Professor of Decision and Information Systems, B.S., Moorhead State University, M.B.A., College of St. Thomas, Ph.D., University of Minnesota
- Mitchell, Frederic F.** 1961, Professor Emeritus of Education, B.A., M.A., University of Arizona, Ph.D., Columbia University
- Mitchell, Michael J.** 1990, Associate Professor of Political Science, B.A., Fordham University; M.A., Ph.D., Indiana University, Bloomington
- Mittelmann, Hans Detlef** (1982), Professor of Mathematics; M.A., University of Mainz (West Germany); Ph.D., Habilitation, University of Darmstadt (West Germany)
- Mobasher, Barzin** (1991), Assistant Professor of Civil Engineering; B.S., University of Wisconsin, Platteville; M.S., Northeastern University; Ph.D., Northwestern University
- Moeckel, Cindy L.** (1987), Associate Professor of Accountancy; B.A., M.B.A., Miami University; Ph.D., University of North Carolina, Chapel Hill
- Moeller, Therald** 1969, Professor Emeritus of Chemistry and Biochemistry; B.S., Oregon State College, Ph.D., University of Wisconsin, Madison
- Mogey, John M.** (1987), Adjunct Professor of Sociology, B.A., M.A., D.Sc., Queen's University (Northern Ireland)
- Mokwa, Michael P.** 1979, Professor of Marketing, Chair, Department of Marketing; B.B.A., M.B.A., Ph.D., University of Houston
- Monte, Woodrow** (1979), Associate Professor of Family Resources and Human Development; B.S., New Mexico Institute of Mining and Technology; M.S., Ph.D., Colorado State University
- Montenegro, Leonard Jose** 1986, Senior Research Technologist, Mechanical and Aerospace Engineering; B.S., State University of New York, Albany
- Montero, Darrel** (1979), Associate Professor of Social Work; B.A., California State University, Sacramento; M.A., Ph.D., University of California, Los Angeles
- Montgomery, Douglas C.** (1988), Professor of Engineering, B.S.I.E., M.S., Ph.D., Virginia Polytechnic Institute and State University
- Montgomery, Toni-Marie** (1990), Assistant Professor of Music; Associate Dean, College of Fine Arts; B.M., Philadelphia College of the Performing Arts, M.M., D.M.A., University of Michigan
- Montiel, Miguel** (1974), Professor of Public Affairs, B.S., University of Arizona, M.S.W., Arizona State University, D.S.W., University of California, Berkeley

- Moody, E. Grant** (1951), Professor Emeritus of Agribusiness and Resource Management, B.S., University of Arizona; M.S., Kansas State University; Ph.D., Purdue University
- Mooney, Elina** 1988, Associate Professor of Dance
- Moor, William C.** 1968, Associate Professor of Engineering, B.S., M.S., Washington University, Ph.D., Northwestern University
- Moore, Ana L.** (1989), Associate Professor of Chemistry and Biochemistry, B. of Pharmacy, National University of La Plata Argentina, M.Sc., Federal University of Rio de Janeiro (Brazil), Ph.D., Texas Tech University
- Moore, Byron C.** (1968), Professor Emeritus of Special Education; A.B., Monmouth College; M.Ed., Ed.D., University of Arizona
- Moore, Carleton B.** 1961, Regents' Professor of Chemistry and Biochemistry and Geology; Director, Center for Meteorite Studies, B.S., Alfred University; Ph.D., California Institute of Technology
- Moore, Elsie Gloria Jean** 1981, Associate Professor of Education; Academic Program Coordinator, Lifespan Developmental Psychology, B.A., Elmhurst College, M.A., Ph.D., University of Chicago
- Moore, J. Douglas** 1969, Associate Professor of Mathematics; B.S., M.S., Idaho State University; Ph.D., Syracuse University
- Moore, Michael** 1982, Professor of Zoology; B.A., Indiana University; M.S., Ph.D., University of Washington
- Moore, Moses N.** (1989), Associate Professor of Religious Studies, B.A., Eckerd College; M.Div., Yale University, M.Phil., Ph.D., Union Theological Seminary
- Moore, Patricia** 1984, Associate Professor of Nursing; B.S.N., Loyola University, Chicago; M.S., Catholic University of America; M.P.H., D.P.H., Johns Hopkins University
- Moore, Thomas A.** 1976, Professor of Chemistry and Biochemistry, B.A., Ph.D., Texas Tech University
- Moorhead, Gregory** (1978), Associate Professor of Management; B.S.I.E., M.B.A., Ph.D., University of Houston
- Morgan, Miriam J.** 1965, Instructor of French; Licence es Lettres, University of Paris (France); M.A., Arizona State University
- Morgan, Owen W.** 1968, Professor of Family Resources and Human Development; B.A., Grinnell College; M.A., University of Nebraska, Omaha; Ph.D., University of Nebraska, Lincoln
- Morgan, Richard J.** (1980), Professor of Law; Dean, College of Law, B.A., University of California, Berkeley; J.D., University of California, Los Angeles
- Morgan, Thais E.** (1985), Associate Professor of English, B.A., Smith College; M.A., Ph.D., Brown University
- Moroney, Robert M.** 1981, Professor of Social Work; A.B., M.S.W., Boston College, M.P.H., Harvard University; Ph.D., Brandeis University
- Morrell, Darryl** 1988, Associate Professor of Engineering; B.S., M.S., Ph.D., Brigham Young University
- Morris, Brenda C.** (1994), Faculty Associate of Nursing, B.S.N., M.S., University of Arizona
- Morris, Donald H.** (1962), Professor of Anthropology, B.A., Arizona State University; M.A., Ph.D., University of Arizona
- Morrison, Kenneth M.** 1983, Associate Professor of Religious Studies, B.A., St. Dunstan's University, M.A., Ph.D., University of Maine
- Mossman, Kenneth L.** (1990), Professor of Microbiology, B.S., Wayne State University; M.S., Ph.D., University of Tennessee, Knoxville
- Mou, Jong-I** (1994), Assistant Professor of Industrial and Management Systems Engineering, B.S., M.S., University of Wisconsin, Madison, Ph.D., Purdue University
- Moulton, Gerald L.** (1967), Professor Emeritus of Counselor Education, B.A., Hamline University; M.Ed., Ed.D., University of Oregon
- Mowrer, Donald E.** (1965), Professor of Speech and Hearing Science; B.A., M.A., Florida State University; Ph.D., Arizona State University
- Moyer, Joan E.** (1971), Professor of Early Childhood Education, Director, College of Education Preschool, B.S., Kutztown State University, M.Ed., Pennsylvania State University, Ph.D., University of Maryland, College Park
- Mueller, Paul E.** (1987), Faculty Research Associate of Civil Engineering, B.S.C.E., Purdue University
- Mueller-Alexander, Jeanette M.** (1989), Associate Librarian, Reference Service, B.A., Moorhead State University; M.L.S., Indiana University, Bloomington
- Mulligan, Donald E.** (1985), Professor of Construction; B.S.E., M.S.M.E., Arizona State University
- Mulvihill, Josepha Anne** (1983), Associate Librarian, Reference Service, B.S., University of Kansas, M.L.S., Emporia State University
- Munk, Morton E.** (1961), Professor of Chemistry and Biochemistry; Chair, Department of Chemistry and Biochemistry, B.S., Northwestern University, M.S., University of Miami, Ph.D., Wayne State University
- Munukutla, Lakshmi V.** (1987), Professor of Technology, B.S., M.S., Andhra University (India); Ph.D., Ohio University
- Murdough, John M.** 1993, Faculty Associate of Construction; B.S., M.B.A., Arizona State University
- Murphy, Jeffrie G.** (1981), Regents' Professor of Philosophy and Law; B.A., Johns Hopkins University, Ph.D., University of Rochester
- Murphy, Juanita F.** 1971, Professor Emeritus of Nursing; Dean Emeritus, College of Nursing; B.A., Oklahoma Baptist University, M.S., Ph.D., Case Western Reserve University
- Murphy, Kurt R.** 1986, Associate Librarian; Assistant Dean, Personnel, University Libraries; B.S., M.S., University of Illinois, M.B.A., Arizona State University
- Murphy, Nina L.** (1924), Professor Emeritus of Physical Education, B.S., University of Arizona, M.A., University of Southern California
- Murranka, Patricia A.** (1977), Associate Professor of Management Communication, B.A., Trenton State College, M.A., Rider College; Ed.D., Utah State University
- Murray, Roger N.** (1968), Professor Emeritus of English; B.A., B.S., Moorhead State Teachers College; M.A., Stanford University; Ph.D., University of Iowa
- Musheno, Michael C.** (1977), Professor of Justice Studies and Public Affairs; B.A., Lycoming College; M.A., Ph.D., American University
- Mushkatel, Alvin H.** 1980, Professor of Public Affairs; Director, Office of Hazards Studies, B.A., Ohio State University; M.S., Ph.D., University of Oregon
- Mutschler, Helen Maria** (1989), Faculty Associate of Music, B.M., University of Rochester, M.M., D.M.A., University of Illinois
- Myers, Barton** (1986), Distinguished Visiting Professor of Architecture; M.Arch., University of Pennsylvania

- Myhajlenko, Stefan** (1986), Associate Research Scientist, Center for Solid State Electronics Research; Ph.D., Victoria University of Manchester
- Myler, Charles E. Jr.** (1968), Professor Emeritus of Real Estate, B.B.A., Loyola University, M.B.A., Harvard University, Ph.D., University of Florida
- Nabham, Gary** (1987), Adjunct Professor of Botany; B.A., Prescott College; M.S., Ph.D., University of Arizona
- Nadeau, Kathleen** (1995), Adjunct Faculty of Anthropology, B.S., Fitchburg State College, M.A., University of San Carlos (Philippines), Ph.D., Arizona State University
- Nagasawa, Richard H.** (1969), Professor of Sociology, B.A., University of Hawaii, Manoa; M.A., Ph.D., University of Washington
- Nagoshi, Craig** (1989), Associate Professor of Psychology; B.A., M.A., Ph.D., University of Hawaii, Manoa
- Nagrin, Daniel** (1982), Professor Emeritus of Dance, B.S., City College of New York
- Nakayama, Thomas K.** (1991), Associate Professor of Communication, A.B., Georgia State University; M.A., Ph.D., University of Iowa
- Nardella, Francis A.** (1992), Adjunct Assistant Professor, Chemical, Bio and Materials Engineering, A.B., West Virginia University; M.D., West Virginia University, School of Medicine
- Nash, Leanne T.** (1971), Professor of Anthropology, B.A., University of California, Davis, M.A., Ph.D., University of California, Berkeley
- Nash, Renea D.** (1995), Lecturer of Journalism and Telecommunication, B.A., Central Michigan University; M.M.C., Arizona State University
- Nash, Richard M.** (1976), Assistant Director, Law Library, B.A., University of Missouri, Kansas City; M.A.L.S., University of Denver; J.D., Drake University
- Nash, Thomas H. III** (1971), Professor of Botany; B.S., Duke University; M.S., Ph.D., Rutgers, The State University
- Neal, Berna E.** (1988), Associate Librarian; Head, Architecture and Environmental Design Library; B.A., M.L.S., Syracuse University
- Nebeker, Helen E.** 1958, Professor Emeritus of English, B.A., M.A., Arizona State University
- Neiswander, Janet L.** (1991), Assistant Professor of Psychology; B.S., Rockford College; M.S., Ph.D., University of Kentucky
- Nelsen, Edward A.** (1975), Professor of Education, B.S., University of Wisconsin, Madison, Ph.D., Stanford University
- Nelson, Ben** (1995), Assistant Professor of Anthropology, B.A., M.A., Florida State University; Ph.D., Southern Illinois University
- Nelson, G. Lynn** (1973), Assistant Professor of English, B.A., Kearney State College; Ph.D., University of Nebraska, Lincoln
- Nelson, J. Russell** (1981-1989), Professor Emeritus of Finance; President Emeritus of the University, B.A., Pacific Union College; M.B.A., Ph.D., University of California, Los Angeles
- Nelson, John C.** (1967), Associate Professor of Special Education; B.S., M.A., Arizona State University; Ph.D., Vanderbilt University
- Nelson, Margaret** (1995), Associate Professor of Anthropology; B.A., Occidental College, Los Angeles, Ph.D., University of California, Santa Barbara
- Nemeroff, Carol** (1988), Associate Professor of Psychology, B.A., McGill University (Canada); M.A., Ph.D., University of Pennsylvania
- Nemiro, Jay S.** 1995, Adjunct Faculty of Zoology, B.A., Temple University, M.D., George Washington University School of Medicine
- Nering, Evar D.** (1963), Professor Emeritus of Mathematics; B.A., Indiana University, Fort Wayne; M.A., Ph.D., Princeton University
- Neuberg, Steven L.** (1988), Associate Professor of Psychology; A.B., Cornell University, M.S., Ph.D., Carnegie Mellon University
- Neugebauer, Rhonda L.** (1990), Associate Librarian, Reference Service; B.A., M.A., University of Kansas, M.L.S., Emporia State University
- New, Frances Y.** (1986), Associate Librarian, Science Reference Service; B.S., Seattle Pacific University; M.L.S., University of Arizona
- Ney, James W.** (1969), Professor of English; B.A., M.A., Wheaton College, Ed.D., University of Michigan
- Nichols, Ann W.** (1970), Associate Professor of Social Work; A.B., Stanford University, M.S.W., D.S.W., Columbia University
- Nicolaenko, Basil** (1989), Professor of Mathematics, M.S., University of Paris (France), Ph.D., University of Michigan
- Nieman, Ronald A.** (1982), Associate Research Professional, Chemistry and Biochemistry, B.A., University of Colorado, Ph.D., Arizona State University
- Nielsen, Michael J.** (1969), Associate Professor of Design; B.P.D., North Carolina State University, Raleigh; M.A., Stanford University
- Nielson, Gregory M.** (1970), Professor of Computer Science and Engineering; B.S., M.S., Ph.D., University of Utah
- Niemeir, Wilma M.** (1959), Professor Emeritus of Mathematics, B.A., New Mexico Highlands University, M.S., University of Wyoming
- Nigam, Bishan Perakash** (1964), Professor of Physics and Astronomy; B.S., M.S., University of Delhi (India); Ph.D., University of Rochester
- Nikitin, Sergey** (1994), Assistant Professor of Mathematics, M.S., Moscow State University, Ph.D., Academy of Science of Russia Research Institute of System Studies
- Nilsen, Aileen P.** (1975), Professor of English, Assistant Vice President for Academic Personnel, B.A., Brigham Young University, M.Ed., American University, Ph.D., University of Iowa
- Nilsen, Don L.F.** (1973), Professor of English; B.A., Brigham Young University, M.A., American University; Ph.D., University of Michigan
- Noley, Grayson B.** 1990, Associate Professor of Educational Leadership and Policy Studies, B.A., Southeastern Oklahoma State University, M.Ed., Ph.D., Pennsylvania State University
- Nordin, Paul L.** (1992), Faculty Associate of Public Affairs; B.A., M.P.A., Brigham Young University
- Norman, Michael** (1988), Faculty Associate of Public Affairs, B.A., University of Wisconsin; M.P.A., Harvard University
- North, Larry W.** 1980, Associate Professor of Nursing, B.A., Hastings College; M.S., University of Colorado; Ph.D., University of Arizona
- Northey, William T.** (1959), Professor Emeritus of Microbiology; B.A., University of Minnesota, Twin Cities; M.A., Ph.D., University of Kansas
- Norton, M. Scott** (1973), Professor of Educational Administration and Supervision; B.S., M.Ed., Ed.D., University of Nebraska, Omaha

- Nowlin, Robert W.** 1990, Associate Professor of Electronics and Computer Technology, Program Coordinator, Department of Electronics and Computer Technology; B.S.E.E., University of Washington, M.S.E.E., San Diego State University, Ph.D.E.E., Texas Tech University
- O'Bannon, Charles E.** (1964), Professor of Engineering; B.S.C.E., University of New Mexico; M.S., Harvard University, Ph.D., Oklahoma State University
- O'Beirne, Donald E.** (1959), Professor Emeritus of Education, B.E., Whitewater State Teachers College, M.A., Ed.D., Northwestern University
- O'Brien, Carmen A.** (1959), Professor Emeritus of Education; B.A., M.A. Arizona State University
- O'Connor, Elinor J.** 1970, Professor Emeritus of Family Resources and Human Development, B.S., College of St. Catherine; M.S., University of Iowa
- O'Day, Peggy A.** (1994), Assistant Professor of Geology, B.S., University of California, Davis; M.S., Cornell University, Ph.D., Stanford University
- O'Dell, Michael A.** 1980, Associate Professor of Accountancy, B.S., M.B.A., University of California, Los Angeles, Ph.D., University of Texas, Austin; C.P.A., Colorado
- O'Grady, Catherine** (1991), Associate Professor of Law; B.A., University of Michigan; J.D., Arizona State University
- O'Grady, E.P.** 1977, Associate Professor of Computer Science and Engineering; B.S., St. Louis University; M.S., Ph.D., University of Arizona
- O'hUallachain, Breandan** (1987), Associate Professor of Geography; B.A., National University of Ireland (Ireland); M.A., Indiana University, Bloomington; Ph.D., University of Illinois
- O'Keefe, Michael** (1963), Regents' Professor of Chemistry and Biochemistry; B.S., Ph.D., University of Bristol (England)
- O'Leary, Timothy J.** (1978), Associate Professor of Decision and Information Systems; B.S., Westminster College, M.B.A., D.B.A., Kent State University
- O'Reilly, Thomas** (1989), Associate Research Specialist, Geology, B.A., University of Chicago; M.A., Washington University
- Obermeier, Anita** (1993), Lecturer of English; B.A., Ludwig-Maximilians University (West Germany); M.A., Eastern Illinois University; Ph.D., Arizona State University
- Odenkirk, James E.** (1967), Professor Emeritus of Exercise Science and Physical Education, B.S., M.A., Ohio State University; Ed.D., Columbia University
- Oetting, Edward** (1983), Archivist, Head, Archives and Manuscripts, B.A., University of Michigan; M.A., University of Illinois, M.S.L.S., Wayne State University
- Ohmart, Robert D.** (1970), Professor of Zoology, B.S., M.S., New Mexico State University; Ph.D., University of Arizona
- Ojala, William T.** (1971), Associate Professor of English, B.S., M.A., University of Minnesota, Twin Cities, Ph.D., Florida State University
- Okonkwo, Charles U.** 1994, Lecturer of Manufacturing and Industrial Technology; B.S., M.S., Iowa State University, Ph.D., University of Florida
- Okun, Morris A.** (1976), Professor of Psychology; Director, Adult Development and Aging Program, B.A., Brooklyn College, M.S., Ph.D., Pennsylvania State University
- Oldani, Robert W.** (1982), Professor of Music, B.A., University of Illinois, M.A., Ph.D., University of Michigan
- Olivas, Louis** (1979), Associate Professor of Management, Assistant Vice President for Academic Affairs, B.A., M.A., Ed.D., Arizona State University
- Oliver, Robert S.** (1963), Professor Emeritus of Architecture, B.A., M.A., University of California, Berkeley; M.F.A., Instituto Allende (Mexico)
- Olson, Clark D.** 1984, Associate Instructional Professional of Communication; Director, Forensics, B.A., Iowa State University; M.S., University of Utah; Ph.D., University of Minnesota, Twin Cities
- Olson, Larry W.** 1995, Associate Professor of Manufacturing and Industrial Technology; B.S., Baylor University; Ph.D., University of Pennsylvania
- Olson, Richard S.** (1985), Associate Professor of Political Science; B.A., University of California, Davis; M.A., University of California, Los Angeles; Ph.D., University of Oregon
- Osager, Richard C.** 1990, Faculty Associate of Law; B.A., Arizona State University, M.A., Brown University; J.D., Arizona State University, LL.M., New York University
- Orchinik, Miles** (1995), Assistant Professor of Zoology; B.A., San Francisco State University, Ph.D., Oregon State University
- Ormiston, Michael B.** 1984, Professor of Economics, B.S., Michigan State University, M.A., Ph.D., The Johns Hopkins University
- Ossipov, Helene** 1987, Assistant Professor of French, B.A., City University of New York, M.A. (French Linguistics), M.A. (Russian Area Studies), Ph.D., Indiana University, Bloomington
- Osterhoudt, Robert G.** 1976, Professor of Exercise Science and Physical Education; B.S., M.S., Pennsylvania State University; Ph.D., University of Illinois
- Ostler, Jolene** 1992, Faculty Associate of Planning and Landscape Architecture, B.S., Brigham Young University; M.C.P., Massachusetts Institute of Technology
- Ostrom, Lonnie L.** (1973), Professor of Marketing; Director, Development, Institutional Advancement, Vice Chair, ASU Foundation, B.B.A., University of Wisconsin; M.S., Southern Illinois University, Carbondale, Ph.D., University of Alabama
- Overman, Glenn D.** 1956, Professor Emeritus of Marketing, Dean Emeritus, College of Business, B.S., Central State College, M.S., Oklahoma State University, D.B.A., Indiana University
- Ozel, Filiz** 1995, Associate Professor of Architecture; B.Arch., M.Arch., Middle East Technical University, Turkey; D.Arch., University of Michigan
- Packard, William E.** (1990), Associate Research Scientist, Physics and Astronomy, B.S., Olivet Nazarene College; M.S., Ph.D., University of Wisconsin, Madison
- Packer, Merle A.** 1959, Professor Emeritus of Physical Education, B.A., M.A., Arizona State University, Ed.D., University of Northern Colorado
- Padilla, Raymond V.** (1982), Professor of Higher Education; Academic Program Coordinator, Higher Education, B.A., University of Michigan, M.A., Ph.D., University of California, Berkeley
- Pagano, Caio** 1986, Professor of Music; B.Laws, University of Sao Paulo (Brazil), D.M.A., Catholic University of America
- Page, John B.** 1969, Professor of Physics and Astronomy, B.S., Ph.D., University of Utah
- Palais, Elliot S.** (1959-62, 1966), Librarian, Collection Development, B.A., Bowdoin College, A.M.L.S., University of Michigan

- Palais, Joseph C.** (1964), Professor of Engineering, B S E E , University of Arizona; M.S.E., Ph.D., University of Michigan
- Palmgren, Dale E.** (1984), Associate Professor of Manufacturing and Industrial Technology, Program Coordinator, Manufacturing Technology; B S., M.S., Ph.D., University of Wisconsin, Madison
- Palumbo, Dennis J.** (1983), Regents' Professor of Justice Studies; M.A. (Social Science), M.A. (Political Science), Ph.D., University of Chicago
- Pan, George** (1995), Professor of Electrical Engineering, B E , Peking Institute of Petroleum Technology (China), M.S , Ph D , University of Kansas
- Pan, Guang-Wen** (1995), Professor of Electrical Engineering, B.E., Peking Institute Petro Tech, M S , Ph D , University of Kansas
- Pangrazi, Robert P.** (1973), Professor of Exercise Science and Physical Education, B A , M.S., Ph D , Washington State University
- Pany, Kurt J.** (1978), Professor of Accountancy, B S B A , University of Arizona, M B A , University of Minnesota, Twin Cities; Ph.D., University of Illinois, C P A., Arizona
- Pardini, Louis J.** (1967), Professor Emeritus of Technology; B.A. , A.M., Idaho State University; Ed.D., University of Northern Colorado
- Park, Young-Ae** (1995), Assistant Professor of Dance; B.A., University of California, Irvine, M.A , University of California, Los Angeles
- Parke, Mary** (1989), Faculty Associate of Civil Engineering, B.Sc., Black Hill State College, M S , South Dakota School of Mines and Technology; Ph.D., Northwestern University
- Parker, Harold E.** (1987), Senior Research Technologist, Engineering Computer Services
- Parkinson, Stanley R.** (1971), Professor of Psychology, A B., University of California, Berkeley, M.A , Ph D , University of California, Davis
- Parrish, H. Wayne** (1976), Professor Emeritus of Curriculum and Instruction
- Pasqualetti, Martin J.** (1977), Professor of Geography; B.A. , University of California, Berkeley; M.A , Louisiana State University, Baton Rouge; Ph.D., University of California, Riverside
- Patel, Mookesh** (1990), Associate Professor of Art; B F A (Equiv. , National Institute of Design (India), M.F A , Rhode Island School of Design
- Patten, Duncan T.** (1965), Professor Emeritus of Botany, Director, Center for Environmental Studies, A B . Amherst College; M S., University of Massachusetts, Amherst, Ph D , Duke University
- Patterson, Paul** (1995), Assistant Professor of Agribusiness; B S , Auburn University; M S., Ph.D., Purdue University
- Patterson, Robert A.** (1957), Professor Emeritus of Zoology; B.S., University of Michigan, Ph D., Ohio State University
- Patterson, Shirley L.** (1994), Assistant Professor of Social Work; B.A., North Texas State University; M.A., McCormick Theological Seminary; M.S.W., University of Kansas; Ph.D., University of Wisconsin, Madison
- Paulsen, George E.** (1959), Professor Emeritus of History; B A , Hobart College; M.A., Rutgers, The State University; Ph.D , Ohio State University
- Paz, Juan J. Jr.** (1988), Assistant Professor of Social Work; B.A., University of Texas, El Paso, M.S., University of Houston, D.S W , Howard University
- Peacock, Simon M.** (1985), Associate Professor of Geology, B S , M S , Massachusetts Institute of Technology, Ph D , University of California, Los Angeles
- Pearce, Martha V.** (1977), Professor Emeritus of Technology; B S , Columbia University; M.S., Boston University, Ed D , Arizona State University
- Pearson, David L.** (1988), Research Professor of Zoology; B.S., Pacific Lutheran University; M S , Louisiana State University, Baton Rouge; Ph.D., University of Washington
- Pearson, John N.** (1981), Associate Professor of Purchasing and Logistics Management; B.S., M B.A . Florida Atlantic University, Ph D , Georgia State University
- Pearson, Nancy B.** (1989), Research Specialist, Microbiology; B.A., Earlham College, M S , Louisiana State University, Baton Rouge
- Peck, Robert E.** (1984) Professor of Mechanical and Aerospace Engineering, Vice Chair for Mechanical Engineering; B.S , University of California, Berkeley, M.S., Ph.D. University of California, Irvine
- Pedrick, Willard H.** (1966), Professor Emeritus of Law, B A., Parsons College, J D , Northwestern University
- Peek, George A. Jr.** (1964), Professor Emeritus of Political Science; Dean Emeritus, College of Liberal Arts and Sciences, B A., M.A , Ph D , University of Virginia
- Pei, Ker-Wei** (1986), Associate Professor of Accountancy; B A , National Chung Hsing University (Taiwan); M.A , Southern Illinois University, Carbondale; Ph.D., North Texas State University
- Pena, Michael** (1991), Assistant Professor of Chemistry and Biochemistry; B.S , M S., South Dakota School of Mines and Technology; Ph D., Colorado State University
- Pena, Robert** (1995), Assistant Professor of Educational Leadership and Policy Studies; B.S., M.A , State University of New York, Buffalo; Ph.D., University of Wisconsin, Madison
- Penley, Larry E.** (1985), Professor of Management, Director, Hahn Center for Entrepreneurship and Innovation, Dean, College of Business, B A , M A , Wake Forest University; Ph.D., University of Georgia
- Perkins, Ronald J.** (1994), Professor of Aerospace Studies, Chair, Department of Aerospace Studies; B S , Ohio State University; M.S.A., Boston College
- Perrill, Norman K.** (1966), Professor Emeritus of Communication, B S , M A , Northwestern University; Ph.D., University of Southern California
- Perry, Curtis** (1995), Assistant Professor of English; B.A., Cornell University, M.A , Ph.D., Harvard University
- Perry, Patsy** (1985), Professor of Nursing, B S., Columbia Union College; M.S., University of Colorado; Ph D , University of Michigan
- Perry, Ronald W.** (1983), Professor of Public Affairs; B.Sc., M A., Arizona State University, Ph D , University of Washington
- Pessler, Anthony J.** (1994), Assistant Professor of Art; B.F.A., M.A , St. Cloud State University, M.F A , University of Wisconsin, Madison
- Peterman, Gordon G.** (1966), Professor Emeritus of Construction; B S C E , University of Iowa
- Peters, Kathleen A.** (1967), Assistant Professor of Family Resources and Human Development, B S , M.S., Kansas State University
- Peterson, Edward R.** (1977), Assistant Professor of Technology, B S E E., Fairleigh Dickinson University; M S E.E., Arizona State University
- Peterson, Gary** (1987) Professor of Family Resources and Human Development, B S , M S , University of Nebraska, Lincoln; Ph D., Brigham Young University

- Peterson, John R.** (1963), Professor of Architecture; Graduate Coordinator, School of Architecture; B.A., St. Olaf College; B.Arch., University of Minnesota, Twin Cities; M.A., Harvard University
- Peterson, Ralph** (1976), Associate Professor of Elementary Education, B.A., Eastern Washington State College; M.A., Ed.D., Columbia University
- Peterson, Trygve** (1994), Associate Professor of Music, B.M., New England Conservatory of Music, M.M., Yale University; D.M.A., Juilliard School of Music
- Petronio, Sandra G.** (1986), Professor of Communication; B.A., State University of New York, Stony Brook, M.A., Ph.D., University of Michigan
- Pettit, George R.** (1964), Regents' Professor of Chemistry and Biochemistry, Director, Cancer Research Institute; B.S., Washington State University; M.S., Ph.D., Wayne State University
- Pettit, Laird** (1990), Faculty Associate of Design, B.P.A., Art Center School
- Petuskey, William T.** (1983), Associate Professor of Chemistry and Biochemistry, B.S., University of Utah, Sc.D., Massachusetts Institute of Technology
- Péwé, Troy L.** (1965), Professor Emeritus of Geology, A.B., Augustana College; M.S., University of Iowa; Ph.D., Stanford University
- Pfeiler, Edward J.** (1994), Adjunct Faculty of Zoology; A.B., M.A., Humboldt State University, Ph.D., Washington State University
- Pfister, A.J.** (1991), Distinguished Research Fellow of Public Affairs, B.S., J.D., University of Arizona
- Pflugfelder, Janice** (1987), Faculty Associate of Nursing, B.S., St. Joseph College, M.S., Arizona State University
- Pfuhl, Erdwin H. Jr.** (1968), Professor Emeritus of Sociology, A.B., Whitman College, A.M., University of Idaho; Ph.D., Washington State University
- Pheanis, David C.** (1975), Associate Professor of Computer Science and Engineering; B.S., Case Institute of Technology, M.S., Ph.D., Arizona State University
- Phelan, Patrick E.** (1995), Assistant Professor of Mechanical and Aerospace Engineering, B.S., Tulane University; M.S., Massachusetts Institute of Technology; Ph.D., University of California, Berkeley
- Philippakis, Andrew S.** (1967), Professor of Information Systems, Director, Computer Resources Office, B.S., Gannon College; M.B.A., Ph.D., University of Wisconsin, Madison
- Phillips, William W.** (1958), Professor Emeritus of History, Ph.B., M.A., University of North Dakota, Ph.D., University of Missouri
- Pian, Richard H.J.** (1959), Professor Emeritus of Engineering; B.S.C.E., Kung Shang University (China); M.S.E., Ph.D., Cornell University
- Piburn, Michael D.** (1989), Associate Professor of Secondary Education; B.S., University of California, Davis, Ph.D., Princeton University
- Pickens, Judith M.** (1987), Assistant Professor of Nursing; B.S.N., Marymount College; M.S.N., University of Missouri, Ph.D., Arizona State University
- Pigg, Kathleen B.** (1988), Associate Professor of Botany; B.S., M.S., Ohio University, Ph.D., Ohio State University
- Pijawka, K. David** (1982), Professor of Planning and Landscape Architecture, B.A., Brock University (Canada); M.A., Ph.D., Clark University
- Pile, James** (1971), Professor of Art, B.F.A., M.F.A., University of Nebraska, Lincoln
- Pilafian, J. Samuel** (1995), Professor of Music, B.M., University of Miami
- Pimentel, David** (1973), Professor of Art; B.S. Ed., Massachusetts College of Art, M.F.A., Rochester Institute of Technology
- Pinckard, Mary-Margaret** (1982), Librarian: Head, Science Reference Service, B.S., University of New Hampshire, M.L.S., University of Arizona
- Pinkava, Donald J.** (1964), Professor of Botany, Director, ASU Herbarium, B.S., M.S., Ph.D., Ohio State University
- Pittman, Anne M.** (1952), Professor Emeritus of Exercise Science and Physical Education; B.S., University of Texas, Austin; M.A., New York University; Ed.D., Stanford University
- Pittsley, Janice M.** (1987), Associate Professor of Art; B.F.A., University of North Carolina, Chapel Hill.; M.F.A., University of Georgia
- Pizziconi, Vincent B.** (1987), Assistant Professor of Engineering, B.S., University of Lowell, M.S.E., Ph.D., Arizona State University
- Plantz, Don V.** (1960), Professor Emeritus of Economics, B.S., M.B.A., University of Kansas; Ph.D., Indiana University
- Podlich, William F.** (1949), Professor Emeritus of Education; B.S., Maryland State Teachers College, Ph.D., University of Iowa
- Poe, Jerry B.** (1974), Professor of Finance, B.A., Drury College, M.B.A., Washington University; D.B.A., Harvard University
- Polenz, G. Donald** (1967), Professor Emeritus of Social Work, B.A., Wartburg College, M.A., University of Utah; D.S.W., University of Southern California
- Polk, Janet C.** (1993), Faculty Associate of Nursing, B.S.N., M.S., Arizona State University
- Poole, Robert M., Capt** (1995), Assistant Professor of Military Science; B.A., University of Arizona; M.A., Webster University
- Posen, Robert D.** (1991), Adjunct Assistant Professor of Bioengineering, B.A., East Carolina University, D.V.M., University of Georgia
- Potenza, Bruce M.** (1988), Adjunct Associate Professor of Engineering; B.A., B.S., Northwestern University; M.D., Loyola University
- Powers, Doris C.** (1960), Professor Emeritus of English; B.A., Wellesley College, M.A., Occidental College; Ph.D., University of California, Berkeley
- Prather, Elizabeth M.** (1978), Professor Emeritus of Speech and Hearing Science; B.S., University of Nebraska, Lincoln; M.A., Ph.D., University of Iowa
- Pratt, Melvin W.** (1987), Senior Research Technologist, Center for Solid State Electronics Research
- Predock, Antoine** (1980), Distinguished Visiting Professor of Architecture, M.Arch., Columbia University
- Presson, Clark C.** (1980), Professor of Psychology; B.A., Pomona College; M.S., Ph.D., Columbia University
- Prewitt, Kathryn A.** (1992), Assistant Professor of Mathematics; B.A., University of Kansas; M.S., Ph.D., University of California, Davis
- Prigatano, George P.** (1993), Adjunct Professor of Speech and Hearing Science, B.S., Loyola University, Los Angeles; M.A., California State University, Long Beach, Ph.D., Bowling Green State University

- Pritchard, Melissa** (1994), Assistant Professor of English; B.A., University of California, Santa Barbara; M.A., Western Washington University
- Prieto, Alfonso G.** (1974), Professor of Special Education; B.A., University of New Mexico; M.S.S.W., Ph.D., University of Missouri, Columbia
- Primas, Phyllis J.** (1987), Associate Professor of Nursing, B.S.N., University of Pennsylvania; M.P.H., Ph.D., University of Pittsburgh
- Privateer, Paul** (1991), Associate Professor of Interdisciplinary Humanities; B.A., M.A., California State University, Stanislaus; Ph.D., University of California, Davis
- Prust, Zenas A.** (1959), Professor Emeritus of Technology; B.S., University of Wisconsin, Stout; M.A., University of Minnesota, Twin Cities; Ed.D., University of Northern Colorado
- Puig-Suari, Jordi** (1994), Assistant Professor of Mechanical and Aerospace Engineering, B.S., M.S., Ph.D., Purdue University
- Putman, Margaret** (1993), Faculty Associate of Nursing, B.S.N., University of Arizona; M.S., Arizona State University
- Qian, Zhenchao** (1994), Assistant Professor of Sociology; B.S., Shanghai Institute of Education, M.A., University of Pennsylvania
- Quay, Ray** (1990), Adjunct Associate Professor of Planning and Landscape Architecture, B.S., Baylor University, M.S.C.R.P., University of Texas, Austin
- Quesada, Eugene R.** (1973), Professor Emeritus of Design; B.A., Arizona State University
- Quigg, John C.** (1981), Associate Professor of Mathematics; B.S., M.S., Ph.D., Drexel University
- Raby, William** (1982), Professor Emeritus of Accountancy; B.S., Northwestern University; M.B.A., Ph.D., University of Arizona
- Raccach, Moshe** (1980), Associate Professor of Agribusiness and Resource Management; B.Sc., M.Sc., The Hebrew University (Israel), Ph.D., Cornell University
- Rader, Martha** (1975), Associate Professor of Educational Media and Computers; B.S., M.B.E., University of Mississippi, Ph.D., Kansas State University
- Radin, John W.** (1982), Adjunct Professor of Botany, Plant Physiologist, U.S.D.A. Agricultural Research Service, B.S., Ph.D., University of California
- Radke, Judith J.** (1960), Professor Emeritus of French; B.S., M.A., University of Wisconsin, Madison, Ph.D., University of Colorado
- Ragan, Donal M.** (1967), Professor Emeritus of Geology; B.A., Occidental College, M.S., University of Southern California, Ph.D., University of Washington
- Ragsdale, Bruce D.** (1989), Adjunct Professor of Anthropology; B.S., University of California; M.D., University of California, San Francisco
- Rajan, Subramaniam D.** (1983), Associate Professor of Engineering, B.Tech., Indian Institute of Technology (India), M.S., Ph.D., University of Iowa
- Ramage, John** (1990), Associate Professor of English; B.A., Whitman College; Ph.D., Washington State University
- Ramakrishna, B.L.** (1985), Associate Research Professional, Chemistry and Biochemistry, B.S., Bangalore University India, M.S., Indian Institute of Technology, Kanpur (India); Ph.D., Indian Institute of Technology, Madras (India)
- Randall, Virginia R.** (1962), Professor Emeritus of English, B.A., College of New Rochelle; M.A., Arizona State University; Ph.D., Occidental College
- Randolph, Pamela K.** (1995), Faculty Associate of Nursing, B.S.N., M.S., Arizona State University
- Rankin, Robert L.** (1971), Associate Professor of Engineering, B.S., University of Texas, El Paso, Ph.D., William Marsh Rice University
- Rankin, W. Parkman** (1982), Professor Emeritus of Journalism and Telecommunication; B.S., Syracuse University, M.B.A., Ph.D., New York University
- Rapp, James R.** (1962), Professor of Architecture; Associate Dean, College of Architecture and Environmental Design; B.Arch., University of Detroit, M.S. Arch., Columbia University
- Rasmussen, David I.** (1963), Professor Emeritus of Zoology; B.S., M.S., University of Utah, Ph.D., University of Michigan
- Rasmussen, Robert D.** (1949), Professor Emeritus of Agribusiness and Resource Management; B.S., Iowa State University, M.S., Washington State University
- Ratner, Esther** (1988), Associate Professor of Design; B.F.A., Washington University, M.F.A., University of Michigan
- Raupp, Gregory B.** (1985), Professor of Engineering; B.S., M.S., Purdue University, Ph.D., University of Wisconsin, Madison
- Rausch, Jack D.** (1965), Associate Professor of Music; Associate Director, School of Music; B.S., M.A., Ohio State University
- Rave, Wallace J.** (1967), Associate Professor of Music, B.S., Illinois State University; M.M., Ph.D., University of Illinois
- Ravel, B.J.** (1992), Faculty Associate of Planning and Landscape Architecture, B.Arch., School of Architecture, Ahmedabad (India); M.Arch., Washington University
- Ravesloot, John C.** (1993), Adjunct Faculty of Anthropology, B.A., M.A., Ph.D., Southern Illinois University, Carbondale
- Rawls, William S.** (1974), Professor Emeritus of Physics and Astronomy, B.S., Murray State College; M.S., Tulane University; Ph.D., Iowa State University
- Ray, William J.** (1968), Professor Emeritus of Curriculum and Instruction; B.S., M.S., State University of New York, Buffalo; Ed.D., Wayne State University
- Reader, Mark** (1967), Associate Professor of Political Science, A.B., A.M., Ph.D., University of Michigan
- Reber, William** (1991), Associate Professor of Music, Director, Music Theatre Program; B.M., M.M., University of Utah, D.M.A., University of Texas, Austin
- Reckers, Philip M.J.** (1980), Professor of Accountancy; Director, School of Accountancy, B.S., Quincy College, M.B.A., Washington University, Ph.D., University of Illinois
- Redman, Betsy J.** (1988), Associate Librarian, Acquisitions/Bibliographic Records Department, B.S., M.L.S., University of Arizona
- Redman, Charles L.** (1983), Professor of Anthropology, Chair, Department of Anthropology; B.A., Harvard University, M.A., Ph.D., University of Chicago
- Reed, Helen** (1985), Professor of Mechanical and Aerospace Engineering; Director, Aerospace Research Center; A.B., Goucher College, M.S., Ph.D., Virginia Polytechnic Institute and State University
- Reed, William H.** (1968), Associate Professor of Aeronautical Technology, Program Coordinator, Department of Aeronautical Technology, B.S., University of Oklahoma, M.S., Arizona State University
- Reeves, Henry C.** (1969), Professor Emeritus of Microbiology; B.S., Franklin and Marshall College; M.A., Ph.D., Vanderbilt University

- Reffett, Kevin L.** (1995), Associate Professor of Economics; B.B.A., M.A., University of Iowa; Ph.D., Purdue University
- Reger, Rhonda** (1995), Associate Professor of Management
- Regier, Philip R.** (1987), Associate Professor of Accountancy, B.A., St. John's College; Ph.D., University of Illinois
- Reich, John W.** (1965), Professor of Psychology, B.A., M.S., University of Oklahoma; Ph.D., University of Colorado
- Reif, William E.** (1970), Professor of Management; B.B.A., M.A., Ph.D., University of Iowa
- Reiman, Etsuko Obata** (1978), Associate Professor of Japanese, B.A., Keio University (Japan), M.A., Seton Hall University; M.A., Ph.D., University of Wisconsin, Madison
- Reingen, Peter H.** (1982), Professor of Marketing; B.B.A., Cologne College (West Germany); M.B.A., Ph.D., University of Cincinnati
- Reiser, Castle O.** (1958), Professor Emeritus of Engineering, B.S., Colorado State University; Ph.D., Colorado School of Mines, Ph.D., University of Wisconsin, Madison
- Reiser, Mark** (1988), Associate Professor of Statistics; B.S., University of Michigan; Ph.D., University of Chicago
- Reiss, Peter W.** (1976), Assistant Professor of Legal and Ethical Studies; B.S., J.D., Marquette University, M.A., Arizona State University
- Renaut, Rosemary** (1987), Associate Professor of Mathematics; B.S., Durham University; Ph.D., University of Cambridge (England)
- Rendón, Laura I.** (1991), Professor of Educational Leadership and Policy Studies; B.A., University of Houston; M.A., Texas A&I University, Ph.D., University of Michigan
- Reneau, J. Hal** (1975), Professor of Accountancy; B.B.A., M.S., Texas Tech University; Ph.D., University of Missouri, Columbia
- Reuter, Vincent G.** (1961), Professor Emeritus of Operations Management; B.S.C., M.A., Ph.D., University of Iowa
- Reynolds, David P.** (1990), Associate Librarian, Original Cataloging, B.A., M.L.I.S., University of Texas, Austin
- Reynolds, Lisa** (1995), Assistant Professor of Political Science; B.A., Dartmouth, M.A., Ph.D., University of California, San Diego
- Reynolds, Mary C.** (1988), Associate Librarian, Reference Service; B.A., University of California, Riverside; M.L.I.S., University of Texas, Austin
- Reynolds, Robert D.** (1970), Associate Professor of Music; B.M., Texas Christian University, M.M., University of Texas, Austin; Ph.D., Ohio State University
- Reynolds, Stephen J.** (1991), Associate Professor of Geology, B.S., University of Texas, El Paso, M.S., Ph.D., University of Arizona
- Reynolds, Steven L.** (1988), Associate Professor of Philosophy; B.A., University of Chicago; M.A., Ph.D., University of California, Los Angeles
- Rez, Peter** (1985), Associate Professor of Physics and Astronomy; B.A., University of Cambridge (England), M.S., D.Phil., University of Oxford (England)
- Reznikoff, Sivon C.** (1973), Professor of Design; Certificate, New York School of Interior Design; B.A., University of Southwestern Louisiana; M.A., Louisiana State University, Baton Rouge
- Rhodes, Diane B.** (1980), Librarian, Noble Reference Service; B.S., College of William and Mary, M.L.S., University of Wisconsin, Madison
- Rhodes, Jewell P.** (1994), Professor of English; B.A., M.A., Ph.D., Carnegie Mellon University
- Rice, Glen E.** (1986), Associate Professor of Anthropology; Director, Office of Cultural Resource Management, B.A., Reed College; M.A., Ph.D., University of Washington
- Rice, Ross R.** (1950), Professor Emeritus of Political Science; M.A., Ph.D., University of Chicago
- Rice, Roy C.** (1946), Professor Emeritus of Education, Dean Emeritus, Continuing Education and Summer Sessions; B.S., University of New Mexico; M.S., University of Massachusetts, Amherst, Ph.D., University of Texas, Austin
- Rice, Warren** (1958), Professor Emeritus of Engineering; B.S., M.S., Ph.D., Texas A&M University
- Rich, Jacqueline** (1991), Faculty Associate of Planning and Landscape Architecture; B.S., University of California, Berkeley; M.S., University of Arizona
- Rich, Stephen K.** (1976), Assistant Librarian, Architecture Library; B.A., Amherst College; M.L.S., Indiana University, Bloomington
- Richards, Gale L.** (1965), Professor Emeritus of Communication; B.A., University of Akron, M.A., Ph.D., University of Iowa
- Richards, Mary L.** (1978), Professor Emeritus of Nursing; B.S.N., M.S., De Paul University; Ph.D., Texas Woman's University
- Richards, Timothy J.** (1994), Assistant Professor of Agribusiness and Resource Management, B.Comm., University of British Columbia, M.A., Ph.D., Stanford University
- Richardson, Brian A.** (1990), Academic Associate, Division of Undergraduate Academic Services (DUAS), Campus Match Coordinator, DUAS; B.A., Virginia Wesleyan College, M.Ed., Virginia Commonwealth University
- Richardson, Deane E.** (1970), Professor Emeritus of Exercise Science and Physical Education, B.S., Bradley University; M.A., Ed.D., Stanford University
- Richardson, Grant L.** (1953), Professor Emeritus of Agribusiness and Resource Management, B.S., M.S., University of Arizona; Ph.D., Oregon State University
- Richardson, Jeanne M.** (1985), Associate Librarian, Collection Development; B.A., Lawrence University; M.A., M.S., Columbia University
- Richardson, Richard C. Jr.** (1977), Professor of Higher Education; B.S., Castleton State College, M.S., Michigan State University; Ph.D., University of Texas, Austin
- Richie, Richard P.** (1992), Assistant Librarian, Collection Development; B.A., M.L.S., University of California, Berkeley
- Rickel, Harry P.** (1948), Professor Emeritus of Music, B.M., M.M., University of Arizona
- Ricketts, Mary Ann** (1994), Faculty Associate of Nursing; B.S.N., M.S., Arizona State University
- Ridenour, Ronda L.** (1970), Associate Librarian, Original Cataloging, B.A., Arizona State University, M.S.L.S., University of Southern California
- Riding In, James** (1990), Assistant Professor of Justice Studies, B.A., Fort Lewis College; M.A., Ph.D., University of California, Los Angeles
- Ringoldus, Garrit M.** (1989), Instructor of Military Science, B.S., Illinois State University
- Ringhofer, Christian** (1983), Professor of Mathematics, M.A., Ph.D., University of Vienna (Austria)
- Rios, Alberto Alvaro** (1982), Regents' Professor of English; B.A., M.F.A., University of Arizona
- Riske, Marc C.** (1985), Associate Professor of Theatre, B.F.A., North Dakota State University, M.F.A., Ph.D., Wayne State University

- Risley-Curtiss, Christina** (1992), Assistant Professor of Social Work; B.A., University of Connecticut; M.S.S.W., University of Tennessee; Ph.D., University of Maryland Baltimore Professional Schools
- Rispoli, Matthew** (1995), Assistant Professor of Speech and Hearing Science; B.A., Columbia University, M.A., University of Pennsylvania; Ph.D., Hunter College
- Risseuw, John L.** (1980), Professor of Art; B.S., M.A., M.F.A., University of Wisconsin, Madison
- Rissing, Steven W.** (1981), Professor of Zoology; B.S., Indiana University; Ph.D., University of Washington
- Ritchie, Barry G.** (1984), Associate Professor of Physics and Astronomy; B.S., Appalachian State University; M.S., Ph.D., University of South Carolina
- Rivera, Daniel E.** (1990), Associate Professor of Engineering, B.S., University of Rochester; M.S., University of Wisconsin, Madison, Ph.D., California Institute of Technology
- Robbins, Earl R.** (1961), Professor Emeritus of Computer Science; B.S.E.E., Texas Technological College; M.S.E., Ph.D., Arizona State University
- Roberson, Loriann** (1992), Associate Professor of Management; B.A., Ph.D., University of Minnesota, Twin Cities
- Roberson, Robert W.** (1989), Associate Professor of Botany; B.S., M.S., Stephen F. Austin State University; Ph.D., University of Georgia
- Roberts, Carolyn** (1982), Professor Emeritus of Nursing; B.S.N., University of Western Ontario (Canada); M.Ed., Columbia University; Ph.D., Wayne State University
- Roberts, Chell A.** (1989), Assistant Professor of Engineering; B.A., M.S., University of Utah; Ph.D., Virginia Polytechnic Institute and State University
- Roberts, Lauren C.** (1984), Clinical Faculty Associate of Clinical Laboratory Sciences; B.S., St. Norbert College; M.S. University of Illinois
- Roberts, Maura L.** (1994), Assistant Professor of Psychology in Education; B.A., Moravian College; M.A., Ph.D., Lehigh University
- Roberts, Nancy H.** (1980), Lecturer of Economics; B.A., University of Texas, Arlington, M.S., Ph.D., Arizona State University
- Roberts, Robert P.** (1988), Associate Research Specialist, Center for Solid State Science; A.D., DeVry Institute of Technology
- Roberts, Thomas G.** (1970), Associate Professor of Special Education; B.A., Wake Forest University; M.A., Ph.D., University of North Carolina, Chapel Hill
- Robinson, Daniel O.** (1950), Professor Emeritus of Agribusiness and Resource Management, A.B., Brigham Young University, M.S., University of Arizona, Ph.D., Ohio State University
- Robinson, Helene M.** (1967), Professor Emeritus of Music, B.A., University of Oregon, M.M., Northwestern University
- Rockwood, Alyn P.** (1990), Associate Professor of Computer Science and Engineering; B.S., M.S., Brigham Young University; Ph.D., Cambridge University (England)
- Rodriguez, Armando** (1990), Assistant Professor of Electrical Engineering; B.S., Polytechnic Institute of New York, Brooklyn, M.S., Ph.D., Massachusetts Institute of Technology
- Rodriguez, Ester** (1989), Assistant Professor of Nursing; B.S.N., M.S., Ph.D., Arizona State University
- Roe, Keith B.** (1979), Professor Emeritus of Technology; B.S., Wisconsin State College, M.A., University of Michigan
- Roedel, Ronald J.** (1981), Professor of Engineering; B.S.E., Princeton University; M.S., Ph.D., University of California, Los Angeles
- Roen, Duane** (1995), Professor of English; B.S., M.S., University of Wisconsin, River Falls; Ph.D., University of Minnesota, Minneapolis
- Rogers, Bradley B.** (1984), Assistant Professor of Manufacturing and Industrial Technology; B.S., M.S., Montana State University; Ph.D., Arizona State University
- Rogers, Joseph** (1988), Adjunct Professor of Zoology; B.A., Emory University; Ph.D., University of California, San Diego
- Rogers, Rodney** (1987), Associate Professor of Music, B.M., University of Iowa; M.M., Arizona State University, Ph.D., University of Iowa
- Roithmayr, Daria** (1995), Visiting Professor of Law; Acting Director, Legal Research and Writing Support Group; B.S., University of California, Los Angeles, J.D., Georgetown University
- Rolison, Garry L.** (1992), Assistant Professor of Sociology; B.A., University of California, San Diego, M.A., Ph.D., University of California, Santa Cruz
- Rollier, Dwayne A.** (1971), Associate Professor of Engineering; Associate Chair, Department of Industrial and Management Systems Engineering, B.S., M.S., Oklahoma State University, Ph.D., Florida State University
- Romero, Mary** (1995), Professor of Chicano/a Studies, B.A., Regis College; Ph.D., University of Colorado
- Rook, Fern H.** (1969), Professor Emeritus of Technology, B.A., University of Colorado; M.A., Arizona State University
- Roosa, Mark W.** (1980), Professor of Family Resources and Human Development; B.S., Ohio State University; M.A., Ph.D., Michigan State University
- Root, Sylvia M.** (1994), Associate Professor of Nursing, B.S., Old Dominion University; M.S., Virginia Commonwealth University, Ed.D., Virginia Polytechnical Institute and State University
- Roper, Devon J.** (1966), Professor Emeritus of Aeronautical Technology; B.S., Utah State University; M.S., Arizona State University
- Rosales, F. Arturo** (1980), Associate Professor of History; B.A., Arizona State University, M.A., Stanford University; Ph.D., Indiana University, Bloomington
- Rosdahl, Dana** (1994), Faculty Associate of Nursing, B.S.N., Montana State University; M.S., Arizona State University
- Rose, Jonathan** (1968), Professor of Law, B.A., University of Pennsylvania; LL.B., University of Minnesota, Twin Cities
- Rose, Seth D.** (1976), Professor of Chemistry and Biochemistry; B.S., University of California, Berkeley; Ph.D., University of California, San Diego
- Rosen, Bernice M.** (1986), Associate Instructional Professional Emeritus, B.A., Brooklyn College, M.A., New York University
- Rosen, Seymour L.** (1986), Professor Emeritus of Music; Dean Emeritus, College of Fine Arts; B.S., The Juilliard School
- Rosenblum, Victor** (1996), Visiting Professor of Law, A.B., Northwestern University, LL.B., Columbia University; Ph.D., University of California, Berkeley
- Rossi, Patrick J.** (1967), Associate Professor of Psychology; B.S., St. Mary's College; M.A., San Fernando Valley State College; Ph.D., University of California, Riverside
- Rothschild, Mary L.** (1975), Professor of History; Director, Women's Studies; B.A., M.A., Ph.D., University of Washington
- Rowe, Jeremy** (1988), Learning Resources Specialist, Information Technology, B.S., M.A., Arizona State University

- Rowe, Kenneth L.** (1962), Professor Emeritus of Marketing, B.A., M.A., Northern Iowa University; Ph.D., Michigan State University
- Roy, Asim** (1983), Associate Professor of Management Science; B.E., Calcutta University (India); M.S., Case Western Reserve University, Ph.D., University of Texas, Austin
- Roy, Ramendra P.** (1981), Professor of Engineering; B.Sc., University of Calcutta (India); B.S., University of Jadavpur (India); M.S., University of Washington, M.Sc., Ph.D., University of California, Berkeley
- Ruch, William A.** (1968), Professor of Operations Management; B.S., M.B.A., D.B.A., Indiana University, Bloomington
- Ruff, Paul F.** (1958), Professor Emeritus of Engineering; B.S.C.E., M.S.C.E., Case Western Reserve University
- Ruiz, Vicki** (1995), Professor of History and Women's Studies, B.S., Florida State University; M.A., Ph.D., Stanford University
- Rummel, John R.** 1975, Professor Emeritus of Architecture; B.A., M.S., Stanford University
- Ruppé, Carol V.** (1962), Librarian Emeritus, Reference Service; B.A., University of New Mexico, M.A., University of Denver
- Ruppert, K.D.** 1976, Associate Research Specialist, Geography; B.S.E.E., University of Iowa
- Rush, James** 1990, Associate Professor of History, B.A., Gettysburg College, M.A., Ph.D., Yale University
- Rusinak, Ramona** 1993, Faculty Associate of Nursing, B.S., Augsburg College, M.S., Arizona State University
- Russell, Dennis E.** 1991, Assistant Professor of Journalism and Telecommunication; B.S., M.M.C., Arizona State University; Ph.D., University of Utah
- Russell, Paul E.** (1967), Professor Emeritus of Engineering, B.S.E.E., B.S.M.E., New Mexico A&M University, M.S.E.E., Ph.D., University of Wisconsin, Madison, P.E.
- Russell, Scott C.** (1990), Adjunct Professor of Anthropology; B.A., University of New Mexico, M.A., Ph.D., Arizona State University
- Russell, Siera T.** (1989), Director, Indian Legal Program; B.A., Arizona State University; M.Ed., Harvard University, J.D., University of California, Berkeley
- Russell, Timothy** (1993), Professor of Music, B.M.Ed., Northwestern University, M.A., Ph.D., Ohio State University
- Russo, Nancy Felipe** (1985), Professor of Psychology, B.A., University of California, Davis; Ph.D., Cornell University
- Russomanno, Joseph A.** (1994), Assistant Professor of Journalism and Telecommunication, B.A., University of Colorado, Denver; M.A., University of Missouri, Columbia, Ph.D., University of Colorado
- Rutherford, Robert B. Jr.** (1976), Professor of Special Education, B.S., M.Ed., University of Virginia; Ed.S., Ph.D., Vanderbilt University
- Rutowski, Ronald L.** (1976), Professor of Zoology; B.A., University of California, Santa Cruz, Ph.D., Cornell University
- Sacks, Benjamin** (1963), Professor Emeritus of History; B.A., University of New Mexico; M.A., McGill University (Canada), Ph.D., Stanford University
- Sackton, Frank J.** (1976), Professor Emeritus of Public Affairs, B.S., University of Maryland, College Park, M.P.A., Arizona State University
- Sadalla, Edward K.** (1974), Professor of Psychology, B.A., University of California, Berkeley; Ph.D., Stanford University
- Sadler, William E.** (1975), Assistant Professor of Design, B.S., M.S., Kent State University; Ph.D., Ohio State University
- Sadowsky, John S.** (1993), Associate Professor of Electrical Engineering; B.S.E.E., Rose Hulman Institute of Technology; M.S.E.E., Iowa State University, Ph.D., University of Wisconsin, Madison
- Saenz, Delia S.** (1989), Associate Professor of Psychology; B.A., Pan American University; M.A., Ph.D., Princeton University
- Sager, Harvey M.** (1977), Librarian, Reference Service; B.A., San Francisco State College; M.A., California State University, Chico; M.A., University of Denver
- Sakren, Jared** (1994), Associate Professor of Theatre, B.F.A., Juilliard School of Music, Theatre Center
- Saldaña, Johnny** (1981), Professor of Theatre; B.F.A., M.F.A., University of Texas, Austin
- Salerno, Nicholas A.** 1961, Professor Emeritus of English; B.A., M.A., Arizona State University; Ph.D., Stanford University
- Salmirs, Seymour** (1981), Professor Emeritus of Technology, B.A.E., M.S.A.E., Georgia Institute of Technology
- Sample, Tish** (1978), Adjunct Professor of Anthropology; A.B., Whitman College; M.A., University of California, Berkeley; Ph.D., University of Wisconsin, Madison
- San Martin, Ignacio** (1990), Associate Professor of Planning and Landscape Architecture, B.S., Portland State University; Diploma Arch., Design, Bilbao Technical Institute (Spain), M.C.P., M.L.A., University of California, Berkeley
- Sanchez, Angel** 1990, Assistant Professor of Languages and Literatures, Licenciatura, University Complutense (Spain), M.A., University of Minnesota, Twin Cities
- Sanders, Bevie T.** (1957), Professor Emeritus of Accountancy; B.B.A., North Texas State University; M.S., Texas A&M University, Ph.D., University of Texas, C.P.A., Arizona, Texas
- Sanders, Christopher O.** (1989), Assistant Professor of Geology; B.S., University of Nevada, Reno, M.S., Ph.D., California Institute of Technology
- Sandler, Irwin** (1970), Professor of Psychology, B.A., Brooklyn College; Ph.D., University of Rochester
- Sands, Jon M.** (1995), Faculty Associate of Law, B.A., Yale University, J.D., University of California, Davis
- Sands, Kathleen M.** (1977), Professor of English, B.A., Fort Wright College of the Holy Names; M.A., Ph.D., University of Arizona
- Sanft, Alfred C.** (1990), Assistant Professor of Art; B.F.A., Brigham Young University, M.F.A. Equiv., Basel School of Design (Switzerland)
- Sankey, Otto F.** 1982, Professor of Physics and Astronomy, B.S., University of Missouri, St. Louis; M.S., Ph.D., Washington University
- Sansone, Fred J.** (1965), Professor Emeritus of Mathematics, B.S.E., M.S.E., University of Michigan, M.S., Ph.D., Rutgers, The State University
- Santos de Barona, Maryann** (1989), Associate Professor of Psychology in Education; B.S., City University of New York, M.A., Ph.D., University of Texas, Austin
- Santos, Sheryl L.** 1989, Associate Professor of Bilingual Education, Director, Division of Curriculum and Instruction; B.A., M.A., Queens College, Ph.D., Kansas State University
- Sargent, Charles S. Jr.** (1971), Professor Emeritus of Geography; B.A., University of Wyoming; M.A., Ph.D., University of California, Berkeley

- Saric, William** (1984), Professor of Engineering; B.S., Illinois Institute of Technology, M.S., University of New Mexico, Ph.D., Illinois Institute of Technology
- Sater, Vernon E.** (1962), Professor of Engineering; B.S.Ch.E., M.S.Ch.E., Ph.D., Illinois Institute of Technology
- Satterlie, Richard A.** (1980), Professor of Zoology; B.A., Sonoma State University; Ph.D., University of California, Santa Barbara
- Satterthwaite, Lester L. Jr.** (1968), Professor Emeritus of Educational Media and Computers; B.S., M.S., Ed.D., Indiana University, Bloomington
- Sattler, Howard E.** (1967), Professor Emeritus of Education, B.S., M.S., Ph.D., Arizona State University
- Sauer, Barry** (1989), Adjunct Professor of Bioengineering, V.M.D., University of Georgia
- Savage, Nevin W.** (1959), Professor Emeritus of Mathematics, B.S., M.A., Pennsylvania State University, Ph.D., University of California, Los Angeles
- Savenye, Wilhelmina C.** (1991), Associate Professor of Education; Academic Program Coordinator, Learning and Instructional Technology; B.A., University of Washington; M.Ed., Ph.D., Arizona State University
- Schabacker, Joseph C.** (1963), Professor Emeritus of Management; B.S., Temple University; M.B.A., Ph.D., University of California, Los Angeles
- Schade, Thomas V.** (1976), Associate Professor of Justice Studies, Associate Dean, College of Public Programs, B.A., Hope College, M.A., Ph.D., Western Michigan University
- Schall, Merri H.** (1960–66, 1967), Professor Emeritus of Elementary Education; B.A., Albion College, M.S., Ed.D., Arizona State University
- Schaumburg, Donald R.** (1953), Professor Emeritus of Art; B.A., College of Arts and Crafts; M.F.A., Claremont Graduate College
- Scheatzle, David G.** (1979), Professor of Architecture; B.S., Kent State University, M.S.E., Arizona State University; Ph.D., University of Michigan
- Scheinfein, Michael R.** (1990), Associate Professor of Physics and Astronomy; B.S., Massachusetts Institute of Technology; M.S., Ph.D., Cornell University
- Scheiner, Georganne** (1983), Assistant Professor of Women's Studies; B.A., Ithaca College; M.A., University Western Ontario (Canada), Ph.D., Arizona State University
- Schexnayder, Clifford J.** (1994), Visiting Eminent Scholar of Construction; B.C.E., M.S.C.E., Georgia Institute of Technology, Ph.D., Purdue University
- Schildgen, Thomas E.** (1981), Professor of Manufacturing and Industrial Technology; Program Coordinator, Industrial Technology, B.S., M.S., Illinois State University, Ed.D., Northern Arizona University
- Schlacter, John L.** (1969), Professor of Marketing, B.B.A., Case Western Reserve University, M.B.A., Ph.D., Ohio State University
- Schlagenhauf, Don E.** (1976), Professor of Economics; B.S., Marquette University; M.A., Ph.D., University of Illinois
- Schlee, Edward E.** (1990), Associate Professor of Economics, B.A., North Texas State University, M.S., Ph.D., University of Illinois
- Schleif, Corine** (1988), Associate Professor of Art, B.A., Concordia College; M.A., Washington University, Ph.D., University of Bamberg (West Germany)
- Schmid, Maureen** (1990), Associate Research Scientist; Director, Tandem Translation Project; B.A., St. Mary's College of Notre Dame, M.A., University of Notre Dame; Ph.D., State University of New York, Buffalo
- Schmidt, Alfred H.** (1960), Professor Emeritus of Marketing; B.S., University of Oklahoma; M.B.A., D.B.A., Indiana University
- Schmidt, Jean M.** (1966), Professor of Microbiology, B.A., M.S., University of Iowa, Ph.D., University of California, Berkeley
- Schmidt, Kevin E.** (1989), Associate Professor of Physics and Astronomy, A.B., Washington University, M.S., Ph.D., University of Illinois
- Schmidt, Peter A.** (1978), Associate Professor of Manufacturing and Industrial Technology; B.S., Northern Illinois University, M.A., Ed.D., Arizona State University
- Schmidt, Randall B.** (1968), Professor of Art, B.A., Hamline University, M.A., University of New Mexico
- Schmidt, Sherrie** (1990), Librarian, Dean, University Libraries, B.A., Ohio State University, M.L.S., Emory University
- Schneberger, Lois I.** (1969), Librarian, Head, Original Cataloging; B.A., Viterbo College, M.L.S., Kansas State Teachers College
- Schneider, Anne L.** (1989), Professor of Justice Studies, Dean, College of Public Programs; B.A., M.A., Oklahoma State University; Ph.D., Indiana University, Bloomington
- Schneider, Ingrid E.** (1995), Assistant Professor of Recreation Management and Tourism; B.S., M.S., University of Minnesota, Ph.D., Clemson University
- Schneller, Eugene S.** (1985), Professor of Health Administration and Policy, B.A., Post College, Ph.D., New York University
- Schober, Juliane** (1991), Assistant Professor of Religious Studies, B.A., University of Northern Colorado; M.A., Ph.D., University of Illinois
- Schoebel, Henry L.** (1990), Associate Professor of Art, B.F.A., Syracuse University, M.F.A., University of Maryland, College Park
- Schoen, Robert A.** (1966), Professor Emeritus of Technology; B.S., M.S., Arizona State University
- Schoenwetter, James** (1967), Professor of Anthropology; A.B., University of Chicago, M.S., University of Arizona, Ph.D., Southern Illinois University
- Schroder, Dieter K.** (1981), Professor of Engineering, B.S.E.E., M.S.E.E., McGill University (Canada), Ph.D., University of Illinois
- Schroeder, Milton R.** (1969), Professor of Law; B.A., Wesleyan University, J.D., University of Chicago
- Schuback, Gertrud B.** (1966), Instructor Emeritus of Foreign Languages; Faculty Associate of German; B.A., M.A., Arizona State University
- Schultz, Joseph J.** (1983), Professor of Accountancy; B.S., M.B.A., Mississippi State University, Ph.D., University of Texas, Austin, C.P.A., Mississippi
- Schutte, Jerry** (1988), Associate Professor of Art; B.A., Fort Hays State University, M.F.A., Arizona State University
- Schwalm, David E.** (1986), Associate Professor of English, Vice Provost, Academic Programs, ASU West; B.A., Carleton College; M.A., Ph.D., University of Chicago
- Schwartz, Andrew B.** (1993), Faculty Research Associate of Chemical, Bio and Materials Engineering; B.A., Ph.D., University of Minnesota
- Schwartz, Debora B.** (1991), Invitational Assistant Professor, Arizona Center for Medieval and Renaissance Studies, A.B., Bryn Mawr College; Ph.D., Princeton University

- Schwuttke, Guenter** (1983), Professor Emeritus of Engineering, B.S., Ph.D., University of Munich West Germany)
- Scoggin, Janet** (1990), Faculty Associate of Nursing, B.S.N., University of Portland, M.S., Arizona State University
- Scoular, David B.** (1952), Professor Emeritus of Music, B.A., Texas Christian University; B.M., Lawrence College, M.A., Columbia University
- Searfoss, Lyndon W.** (1973), Professor of Reading and Library Science; Academic Program Coordinator, Reading and Library Science; B.S., West Chester State College; M.A., Ph.D., Syracuse University
- Sears, Robert L.** (1986), Senior Research Administrator, Center for Energy Systems Research, B.S., U.S. Military Academy, M.S.E., Arizona State University
- Seaton, Helen J.** (1987), Associate Librarian, Science Reference Service, B.A., Rutgers, The State University; M.L.S., University of Missouri, Columbia
- Sebald, Hans** (1963), Professor Emeritus of Sociology; B.A., Manchester College, M.S., Ph.D., Ohio State University
- Segal, Elizabeth** (1995), Associate Professor of Social Work, B.A., Brandeis University, M.S.W., Boston University, Ph.D., University of Illinois, Chicago
- Segura, Joseph M.** (1979), Associate Fine Arts Specialist, School of Art; B.A., M.F.A., Southern Illinois University, Carbondale
- Sehsted, Colene R.** (1967), Assistant Professor of Nursing; B.S.N., University of Arkansas, Fayetteville, M.S.N., University of Maryland, Baltimore
- Seipp, Kenneth F.** (1963), Professor Emeritus of Music, B.S., Hartwick College, M.M., University of Kansas; Mus.Ed.D., Indiana University, Bloomington
- Selkirk, Susan** (1990), Associate Research Specialist, Geology; B.A., M.A., Arizona State University
- Sellheim, Eckart** (1989), Professor of Music; Concert Diploma, Academy of Music West Germany
- Sellheim, Judy May** (1986), Associate Professor of Music, M.M., The Juilliard School
- Sen, Arunabha** (1986), Associate Professor of Computer Science and Engineering, B.E., Jadavpur University (India); Ph.D., University of South Carolina
- Senner, Wayne M.** (1973), Associate Professor of German; B.A., Portland State University; M.A., University of Washington; Ph.D., University of Illinois
- Sensibar, Judith** (1985), Associate Professor of English; B.A., Vassar College; M.A., Ph.D., University of Chicago
- Seperich, George J.** (1976), Associate Professor of Agribusiness and Resource Management, B.S., Loyola University, Chicago; M.S., Ph.D., Michigan State University
- Serwint, Nancy J.** (1988), Associate Professor of Art; B.A., University of Illinois, M.A., University of Chicago; M.A., Ph.D., Princeton University
- Shaapur, Farhad** (1988), Associate Research Specialist, Center for Solid State Science; B.S., Ayra Mehr University of Technology (Iran); M.S., University of Bridgeport; M.S., Ph.D., University of Southern California
- Shackle, Linda A.** (1984), Librarian, Science Reference Service; B.A., State University of New York Oswego, M.L.S., State University of New York, Albany
- Shafer, Robert E.** (1966), Professor Emeritus of English; B.S., M.S., University of Wisconsin, Madison, Ed.D., Columbia University
- Shafer, Susanne M.** (1966), Professor Emeritus of Educational Policy Studies; A.B., Smith College, M.A., Syracuse University; Ph.D., University of Michigan
- Shaffer, Daniel C.** (1987), Faculty Research Associate of Agribusiness, B.A., Pennsylvania State University, M.A., M.B.A., Arizona State University
- Shah, Jami** (1984), Professor of Engineering, B.S.M.E., University of Karachi (Pakistan); M.S., University of Pittsburgh, Ph.D., Ohio State University
- Sharer, Jon W.** (1975), Professor of Art; B.A., Roosevelt University, M.S., Illinois Institute of Technology; Ph.D., Ohio State University
- Sharma, Renu** (1985), Research Specialist, Center for Solid State Science; B.S., B.Ed., Punjab University (India), M.S., Ph.D., University of Stockholm (Sweden)
- Sharma, Anu** (1995), Assistant Professor of Speech and Hearing Science, B.S., University of Bombay (India); M.A., Ph.D., Northwestern University
- Sharp, William P.** (1979), Senior Research Specialist, Botany, B.A., University of Northern Iowa, M.S., Arizona State University
- Shaw, Milton C.** (1978), Professor Emeritus of Engineering, B.S.M.E., Drexel University, M.E.Sc., Sc.D., University of Cincinnati, Dr.H.C. University of Louvain (Belgium)
- Shearer, Nelma** (1993), Faculty Associate of Nursing, B.S., South Dakota State University; M.Ed., University of Missouri, St. Louis; M.S., Southern Illinois University, Edwardsville
- Shears, Brenda** (1990), Assistant Research Administrator, Anthropology/OCRM, B.A., Arizona State University, M.A., Hunter College
- Shell, Leon G.** (1967), Associate Professor of Counselor Education; Associate Vice President, Student Affairs, B.A., University of Colorado; A.M., Ed.D., University of Northern Colorado
- Sheller, Don** (1986), Professor Emeritus of Manufacturing Technology; B.M.E., Ohio State University, M.S., Arizona State University
- Shen, C.C.** (1982), Associate Professor of Engineering, B.S.E.E., National Taiwan University (Taiwan); M.S., State University of New York, Stony Brook, Ph.D., Stanford University
- Sheppard, Douglas C.** (1971), Professor Emeritus of Spanish, B.A., Montana State University, M.A., Ph.D., University of Wisconsin, Madison
- Sherman, Thomas L.** (1964), Professor Emeritus of Mathematics; B.A., University of California, Los Angeles, M.S., Ph.D., University of Utah
- Sheydayi, E. Yury** (1973), Associate Professor of Architecture; B.S.C.E., University of Arizona, M.S.C.E., Arizona State University
- Shinn, Randall A.** (1978), Professor of Music; B.A., Southwestern Oklahoma State University, M.M., University of Colorado, D.M.A., University of Illinois
- Shinn, Thelma J.** (1975), Professor of English; B.A., Central Connecticut State College; M.A., Ph.D., Purdue University
- Shipp, Vernon E.** (1966), Professor Emeritus of Art, B.S., Grand Canyon College, M.A., Arizona State University
- Shofstall, Weldon P.** (1950), Professor Emeritus of Secondary Education; Dean Emeritus, Student Life; B.S., Northeast Missouri State Teachers College, M.A., Ph.D., University of Missouri, Columbia
- Shriver, Keith A.** (1982), Professor of Accountancy; B.S., Linfield College, M.S., Arizona State University, Ph.D., University of Texas, Austin, C.P.A., Arizona

- Shugars, Jerry G.**, Col. (1990), Professor of Aerospace Studies, Chair, Department of Aerospace Studies; B.S., M.A., Arizona State University
- Shuman, I. Gayle** (1974), Professor Emeritus of Justice Studies; B.S., M.A., Ed.D., Arizona State University
- Shunk, Dan L.** (1984), Associate Professor of Engineering; B.S.I.E., M.S.I.E., Ph.D., Purdue University
- Si, Jennie** (1991), Assistant Professor of Engineering; B.S., M.S., Tsinghua University (China), Ph.D., University of Notre Dame
- Sieradzki, Karl** (1994), Associate Professor of Mechanical and Aerospace Engineering; B.S., Utica College of Syracuse University, M.S., Ph.D., Syracuse University
- Sierra-Maldonado, Rodrigo** (1995), Assistant Professor of Geography; B.S., M.S., Catholic University of Ecuador; M.S., Ph.D., Ohio State University
- Sievers, Gary** (1987), Faculty Associate of Theatre, B.S., Northwestern University; M.A., University of California, Los Angeles
- Siferd, Sue Perrott** (1989), Assistant Professor of Operations; B.S., Denison University; M.B.A., Wright State University; M.A., Ph.D., Ohio State University; C.P.A., Ohio
- Silver, Benjamin** (1971), Professor Emeritus of Journalism and Telecommunication; B.A., M.A., University of Iowa
- Simhony, Avital** (1994), Assistant Professor of Political Science; B.A., M.A., University of Haifa (Israel), D.Phil., University of Oxford (England)
- Simon, Arleyn W.** (1989), Research Assistant Professor of Anthropology; B.A., Montana State University, M.A., Oregon State University; Ph.D., Arizona State University
- Simmons, Douglas J.** (1963), Professor Emeritus of French, A.B., Wabash College, M.A.T., Harvard University, Certificat de français usuel, degré supérieur, Certificat de prononciation française, Sorbonne University (France)
- Simmons, Howard L.** (1996), Professor of Educational Leadership and Policy Studies, B.S., Spring Hill College, M.A.T., Indiana University; Ph.D., Florida State University
- Simon, Sheldon** (1975), Professor of Political Science; B.A., University of Minnesota, Twin Cities, M.A., Princeton University, Ph.D., University of Minnesota, Twin Cities
- Simpson, Brooks** (1990), Associate Professor of History; B.A., University of Virginia, M.A., Ph.D., University of Wisconsin, Madison
- Sinex, Donal** (1995), Associate Professor of Speech and Hearing Science; B.S., Purdue University; Ph.D., Washington University, St. Louis
- Singh, Sheo Bux** (1983), Associate Research Professor, Cancer Research Institute; B.Sc., M.Sc., Gorakhpur University (India); Ph.D., Avadh University (India)
- Singhal, Avi C.** (1977), Professor of Engineering, B.Sc. Math., Agra University (India); B.Sc. Engr., B.Sc. Hons., St. Andrews University (Scotland); S.M., C.E., Sc.D., Massachusetts Institute of Technology
- Sinha, Rajiv K.** (1989), Associate Professor of Marketing; B.A., M.A., Delhi University (India); Ph.D., Pennsylvania State University
- Sinkov, Abraham** (1964), Professor Emeritus of Mathematics, B.S., College of City of New York, M.S., Columbia University, Ph.D., George Washington University
- Sirkis, Murray D.** (1968), Professor Emeritus of Engineering, B.S., Massachusetts Institute of Technology, M.S., Ph.D., University of Illinois
- Skiba, Christopher J.** (1987), Associate Research Specialist, Geology; B.S., Arizona State University
- Skibo, Edward B.** (1982), Professor of Chemistry and Biochemistry; B.S., M.S., Drexel University; Ph.D., University of California, San Francisco
- Skindlov, Jonathan A.** (1993), Adjunct Professor of Geography, B.A., St. Olaf College; M.A., Ohio University; Ph.D., University of Delaware
- Skoldberg, Phyllis** (1977), Professor of Music, B.M., M.M., New England Conservatory of Music, M.M.E., D.M., Indiana University, Bloomington
- Skromme, Brian J.** (1989), Associate Professor of Electrical Engineering, B.S., University of Wisconsin, Madison; M.S., Ph.D., University of Illinois
- Smeltzer, Larry R.** (1986), Professor of Business Administration; Chair, Department of Business Administration, B.S., University of Montana, M.A., University of Nebraska; Ed.D., Northern Illinois University
- Smith, Andrew T.** (1978), Professor of Zoology, A.B., University of California, Berkeley; Ph.D., University of California, Los Angeles
- Smith, Arthur B. Jr.** (1967), Professor Emeritus of General Business, B.S., Hardin Summons University, M.B.A., Ed.D., University of Houston
- Smith, Cecil** (1989), Adjunct Professor of Botany; B.A., M.S., University of Colorado; Ph.D., Wayne State University
- Smith, Charles B.** (1964), Professor Emeritus of General Business; B.S., Drake University, M.S., New Mexico Highlands University; Ed.D., University of Northern Colorado
- Smith, David J.** (1984), Professor of Physics and Astronomy, Director, HREM Facility, Center for Solid State Science; B.Sc., Ph.D., D.Sc., University of Melbourne (Australia)
- Smith, Georgia A.F.** (1985), Associate Professor of Zoology, B.A., University of California, Santa Barbara; M.P.H., University of Michigan; Ph.D., University of California, Riverside
- Smith, Hal L.** (1979), Professor of Mathematics; B.A., Ph.D., University of Iowa
- Smith, Harvey A.** (1977), Professor of Mathematics, B.S., Lehigh University; M.S., A.M., Ph.D., University of Pennsylvania
- Smith, Henry Charles** (1989), Professor Emeritus of Music; B.A., University of Pennsylvania; Artist Diploma, Curtis Institute of Music
- Smith, Janet Kiholm** (1981), Professor of Economics; B.S., University of Utah; M.S., Arizona State University, Ph.D., University of California, Los Angeles
- Smith, Jeffrey B.** (1990), Associate Professor of Music, M.M., University of Illinois, D.M.A., University of North Texas
- Smith, Karen A.** (1993), Assistant Professor of Accountancy; B.S., University of Delaware, Ph.D., University of Texas, Austin
- Smith, L. Christian** (1971), Associate Professor of History, B.A., Union College, M.A., Ph.D., University of Illinois
- Smith, Lehi T.** (1959), Professor Emeritus of Mathematics; B.S., M.A., Arizona State University; Ed.D., Stanford University
- Smith, Marion W.** (1952), Professor Emeritus of Music, B.S., Capital University; M.M., American Conservatory of Music
- Smith, Mary Lee** (1986), Professor of Educational Policy Studies and Psychology in Education; Academic Program Coordinator, Educational Policy Studies; B.A., M.P.S., Ph.D., University of Colorado
- Smith, Ralph E.** (1970), Professor of Accountancy; B.B.A., Washburn University of Topeka; M.S., Ph.D., University of Kansas; C.P.A., Kansas

- Smith, Richard L.** (1967), Professor of Engineering, B.S., Washington University; M.S., Ohio State University, Ph.D., Arizona State University
- Smith, Richard L.** (1981), Professor of Finance, B.B.A., Southern Methodist University, M.B.A., Washington University, M.A., Ph.D., University of California, Los Angeles
- Smith, Ronald D.** (1962), Associate Professor of History; A.B., San Diego State College; Ph.D., University of Southern California
- Smith, Stanley E.** (1977), Professor Emeritus of Journalism and Telecommunication; B.A., Colgate University, M.A., Purdue University
- Smith, Todd** (1991), Faculty Associate of Design; B.P.A., Art Center School; M.F.A., Arizona State University
- Smith-Daniels, Dwight E.** (1987), Associate Professor of Operations; B.B.A., University of Michigan; Ph.D., University of Arizona
- Smith-Daniels, Vicki L.** (1987), Associate Professor of Operations; B.B.A., University of San Diego, Ph.D., Ohio State University
- Smith-David, Julia** (1995), Assistant Professor of Accountancy; B.A., B.E., Ph.D., Michigan State University
- Sneed, Jimmie R.** (1988), Faculty Associate of Construction, B.S., Arizona State University
- Snow, Robert** (1970), Professor of Sociology; B.S., M.A., Ph.D., University of Minnesota, Twin Cities
- Snyder, Ernest E. Jr.** (1958), Professor Emeritus of Physics and Astronomy/Science Education, A.B., M.A., Colorado State University; Ed.D., New York University
- Snyder, Lester M. Jr.** (1967), Professor Emeritus of Counseling Psychology; B.S., Millersville State College, M.Ed., Western Maryland College; Ph.D., University of Michigan
- So, Ronald Ming Cho** (1981), Professor of Mechanical and Aerospace Engineering; Vice Chair, Aerospace Engineering; B.Sc., University of Hong Kong (Hong Kong); M.Eng., McGill University (Canada); M.A., Ph.D., Princeton University; D.Sc., University of Hong Kong
- Soergel, Philip M.** (1989), Associate Professor of History, B.A., Muskingum College, A.M., Ph.D., University of Michigan
- Soleri, Paolo** (1975), Adjunct Professor of Architecture; D.Arch., Politecnico di Torino (Italy)
- Solis, Theodore** (1989), Associate Professor of Music; B.A., Arizona State University; M.A., University of Hawaii, Manoa; Ph.D., University of Illinois
- Somerville, Susan C.** (1977), Professor of Psychology, B.A., University of New England (Australia); Ph.D., Australian National University (Australia)
- Sommerfeld, Milton R.** (1968), Professor of Botany, Associate Dean, College of Liberal Arts and Sciences, B.S., Southwest Texas State College, Ph.D., Washington University
- Sonmez, Sevil F.** (1995), Assistant Professor of Recreation Management and Tourism; B.B.A., Bernard M. Baruch College, M.P.R.T.M., Clemson University; Ph.D., Pennsylvania State University
- Sonntag, Volker K.H.** (1990), Adjunct Professor of Engineering, B.A., Arizona State University, M.D., University of Arizona
- Sorensen, Ian W.** (1989), Associate Research Scientist, Chemistry and Biochemistry, B.A.Sc., University of Toronto (Canada), Ph.D., Rensselaer Polytechnic Institute
- Spanias, Andreas S.** (1988), Associate Professor of Engineering, B.S.E.E., M.S.E.E., Ph.D., West Virginia University
- Spataro, Joseph** (1980), Adjunct Professor of Clinical Laboratory Sciences, Lyceum (Italy); M.D., Medical School at Messina (Italy), University of Rome (Italy)
- Spector, Joseph** (1990), Assistant Professor of Electrical Engineering; B.S., Stanford University, Ph.D., University of California, Santa Barbara
- Spellman, Catherine** (1995), Assistant Professor of Architecture, B.A., B.Arch., Rice University; M.Arch., University of California, Los Angeles
- Spence, Gary L.** (1994), Lecturer of Aeronautical Technology; B.S., University of West Florida; M.S., Embry-Riddle Aeronautical University
- Spence, John C.H.** (1976), Regents' Professor of Physics and Astronomy; M.Sc., Ph.D., University of Melbourne (Australia)
- Spielberg, John** (1990), Associate Professor of Mathematics; B.S., Stanford University, Ph.D., University of California
- Berkeley Spielmann, Katherine A.** (1987), Associate Professor of Anthropology, A.B., Harvard University, M.A., Ph.D., University of Michigan
- Spiers, James V.** (1990), Senior Lecturer of Marketing; B.S., Weber State College; M.A., University of Northern Colorado
- Spindler, Robert P.** (1988), Associate Archivist, Archives and Manuscripts; B.A., M.A., Boston University; M.S., Simmons College
- Spinosa, Frank** (1965), Professor of Music, B.M., M.A., Boston University; D.M.A., University of Illinois
- Spring, Robert S.** (1988), Professor of Music, B.M., M.M., D.M.A., University of Michigan
- Spritzer, Ralph S.** (1986), Visiting Professor of Law; B.S., LL.B., Columbia University
- Squires, Rose L.** (1981), Professor Emeritus of Nursing; B.S., Duquesne University; M.A., Ed.D., Columbia University
- St. Louis, Robert D.** (1982), Associate Professor of Management Science; A.B., Rockhurst College; M.S., Ph.D., Purdue University
- Stadtmiller, Jack E.** (1963), Professor Emeritus of Industrial Technology, B.S., University of Utah; M.A., Arizona State University
- Stafford, Kenneth R.** (1957), Professor Emeritus of Education; B.A., M.Ed., Ph.D., University of Oklahoma
- Stafford, Mary E.** (1994), Assistant Professor of Psychology in Education; B.A., University of Texas, Austin; M.Ed., University of Houston, Victoria; Ph.D., University of Texas, Austin
- Stahl, Robert** (1978), Professor of Secondary Education; B.A., M.A., Ed.D., University of Florida
- Staley, Frederick A.** (1970), Professor of Elementary Education; B.A., M.A., Western Michigan University; Ph.D., Michigan State University
- Stalzer, Frank S.** (1955), Professor Emeritus of Music, B.M. Ed., University of Kansas; M.M., Eastman School of Music
- Stanford, Michael** (1992), Lecturer, University Honors College, B.A., Duke University; M.A., Ph.D., University of Virginia
- Stange, Jean B.** (1970), Professor Emeritus of Family Resources and Human Development, B.S., Iowa State University; M.S., University of Minnesota, Twin Cities
- Stanley, James T.** (1968), Professor Emeritus of Engineering; B.S., M.S., Ph.D., University of Illinois
- Stanton, Ann M.** (1980), Professor of Law; B.A., University of Minnesota, Twin Cities; Ph.D., J.D., Stanford University

- Stark, Barbara L.** (1972), Professor of Anthropology, B.A. William Marsh Rice University; M Phil., Ph.D., Yale University
- Stark, Louisa R.** (1993), Adjunct Faculty of Anthropology, B.A., Barnard University; M.A., Columbia University; Ph.D., New York University
- Starrfield, Sumner G.** (1972), Professor of Physics and Astronomy; B.A., University of California, Berkeley; M.A., Ph.D., University of California, Los Angeles
- Stauffer, Sandra L.** (1990), Associate Professor of Music, B.S., West Chester University, M.M., Ph.D., University of Michigan
- Steadman, Lyle B.** (1971), Assistant Professor of Anthropology; B.A. Occidental College; M.A., University of California, Los Angeles; Ph.D., Australian National University (Australia)
- Stearns, MaryBeth** 1981, Regents' Professor Emeritus of Physics and Astronomy; B.S., University of Minnesota, Twin Cities, Ph.D., Cornell University
- Steere, Caryl J.** (1960), Professor Emeritus of Education, B.A., Albion College; M.A., Arizona State University
- Steffl, Bernita M.** (1961), Professor Emeritus of Nursing; B.S.N., M.P.H., University of Minnesota, Twin Cities
- Steimle, Timothy C.** (1985), Associate Professor of Chemistry and Biochemistry; B.S., Michigan State University; Ph.D., University of California, Santa Barbara
- Steiner, Frederick** 1989, Professor of Planning and Landscape Architecture; Director, School of Planning and Landscape Architecture; B.S., M.C.P., University of Cincinnati, M.R.P., M.A., Ph.D., University of Pennsylvania
- Stelmach, George E.** 1990, Professor of Exercise Science and Physical Education, B.S., University of Illinois, M.A., Ed.D., University of California, Berkeley
- Stephens, Nancy J.** (1979), Associate Professor of Marketing, B.S., M.S., University of Illinois; Ph.D., University of Texas, Austin
- Stephenson, Christine F.** (1995), Adjunct Faculty of Zoology, B.S., University of Ulster (Ireland), Ph.D., The Queen's University of Belfast (Ireland)
- Stephenson, Larry K.** (1986), Adjunct Professor of Geography; B.S., M.A., Arizona State University; Ph.D., University of Cincinnati
- Stevens, Scott M.** (1995), Assistant Professor of English; B.A., Dartmouth; M.A., Ph.D., Harvard University
- Stevenson, Harold W.** (1967), Professor Emeritus of Finance; B.S., University of Minnesota, Twin Cities, M.B.A., Ph.D., University of Michigan, C.F.A.
- Steverson, Norris J.** (1932), Professor Emeritus of Physical Education, B.A., Arizona State University, M.S., University of Southern California
- Stewart, Barry D.** (1982), Associate Senior Research Specialist, Electrical Engineering; B.S., West Virginia University
- Stewart, Donald G.** (1964), Associate Professor of Mathematics; B.A., M.S., University of Utah; Ph.D., University of Tennessee, Knoxville
- Stewart, Ernest I.** (1959), Professor Emeritus of Health Science, B.S., M.S., Utah State University; Ph.D., Columbia University
- Stewart, Kenneth M.** (1947), Professor Emeritus of Anthropology, A.B., M.A., Ph.D., University of California, Berkeley
- Stiles, Philip G.** (1969), Professor of Agribusiness and Resource Management, B.S., University of Arkansas, M.S., University of Kentucky, Ph.D., Michigan State University
- Stites, William H.** (1954), Professor Emeritus of Communication; B.A., Louisiana Polytechnic Institute, M.A., Ph.D., University of Denver
- Stock, William A.** 1984, Professor of Exercise Science and Physical Education; B.A., Blackburn College, M.S., Ph.D., Iowa State University
- Stocker, David Allen** 1978, Professor of Music, B.S., Concordia Teachers College, M.M., Ph.D., Northwestern University
- Stokrocki, Mary, L.** 1990, Associate Professor of Art, B.S., State University of New York, New Paltz, M.S., Massachusetts College of Art; D.Ed., Pennsylvania State University
- Stone, Gregory O.** (1986), Associate Professor of Psychology; B.A., Harvard University; Ph.D., University of California, San Diego
- Stone, John F.** (1993), Adjunct Professor of Zoology; A.B., A.M., Ph.D., Stanford University
- Stone, William J.** (1967), Professor of Exercise Science and Physical Education; Chair, Department of Exercise Science and Physical Education; B.S., Boston University; M.S., Florida State University, Ed.D., University of California, Berkeley
- Stoner, K. Lynn** (1985), Associate Professor of History, Director, Center for Latin American Studies, B.S., George Peabody College for Teachers, M.A., Ph.D., Indiana University
- Stookey, John A.** (1976), Associate Professor of Political Science; A.B., M.A., Marshall University, Ph.D., University of Kentucky; J.D., Stanford University
- Stout, Minard W.** (1968), Professor Emeritus of Education, B.A., University of Northern Iowa; M.A., Ph.D., State University of Iowa
- Stout, Robert** (1978), Professor of Educational Administration and Supervision, B.A., Carleton College; Ph.D., University of Chicago
- Stout, Valerie** (1991), Assistant Professor of Microbiology, B.S., University of Wisconsin, Madison, Ph.D., Kansas State University
- Stowe, Noel J.** (1967), Professor of History, Associate Dean, Graduate College, B.A., Ph.D., University of Southern California
- Strange, Richard E.** (1974), Professor of Music; Director, Bands; B.M.E., Wichita State University; M.M.E., University of Colorado, D.M.A., Boston University
- Straub, Calvin C.** 1961, Professor Emeritus of Architecture; B.Arch., University of Southern California
- Strawn, Roland S.** (1967), Professor Emeritus of Engineering, B.S.E.E., M.S.E.E., University of Illinois; Ph.D., Arizona State University
- Streufert, Hildegard** 1961, Professor Emeritus of Design, B.S., University of Minnesota, Twin Cities; M.S., Iowa State University
- Strick, Gerald J.** (1995), Faculty Associate, College of Law, B.A., Hobart and William Smith Colleges; J.D., University of Michigan
- Strojnik, Ales** (1969), Professor Emeritus of Physics and Astronomy, Diplom. Ing., Ph.D., University of Ljubljana (Yugoslavia)
- Strom, Robert D.** 1969, Professor of Education, B.S., Macalester College; M.S., University of Minnesota, Twin Cities; Ph.D., University of Michigan
- Stromberg, Juliet C.** (1987), Research Associate Professor, Center for Environmental Studies, B.S., M.S., University of Wisconsin, Milwaukee; Ph.D., Arizona State University
- Strouse, Daniel S.** (1990), Professor of Law, Director, Center for the Study of Law, Science, and Technology, A.B., S.M., Harvard University, J.D., University of Wisconsin, Madison
- Stuart, Gary L.** (1995), Faculty Associate, College of Law, B.S., J.D., University of Arizona

- Stuler, John H.** (1962), Professor of Art; B.A., M.F.A., Arizona State University
- Stump, Edmund** (1976), Professor of Geology; Chair, Department of Geology; A.B., Harvard University; M.S., Yale University, Ph.D., Ohio State University
- Stumpf, Angela M.** (1959), Professor Emeritus of Nursing; B.S.N., Marquette University; M.A., University of Chicago
- Stutsman, Paul S.** (1967), Professor Emeritus of Chemistry and Biochemistry; B.S., University of Illinois, Ph.D., University of Wisconsin, Madison
- Stutz, Jean C.** (1981), Associate Professor of Botany; B.S., Ursinus College; M.S., University of Delaware, Ph.D., Pennsylvania State University
- Sullivan, Deborah A.** (1976), Associate Professor of Sociology; B.S., University of Massachusetts, Amherst; M.A., University of California, Irvine; Ph.D., Duke University
- Sullivan, Howard J.** (1971), Professor of Education; B.S., Oregon College of Education; M.Ed., Ph.D., University of Oregon
- Sullivan, John J.** (1976), Professor Emeritus of Education; B.A., Villanova University; M.A., Ph.D., Arizona State University
- Sun, Weiman** (1992), Academic Professional of Electrical Engineering; B.S., Sichuan University (China); M.S., Tsinghua University (China); Ph.D., Michigan State University
- Sunkett, Mark E.** (1976), Associate Professor of Music; B.M., Curtis Institute of Music, M.M., Temple University, Ph.D., University of Pittsburgh
- Surbeck, Elaine** (1988), Associate Professor of Early Childhood Education; B.A., University of Washington; M.Ed., Ed.D., University of Georgia
- Sushka, Marie E.** (1984), Professor of Finance; B.A., Sweet Briar College; M.A., Ph.D., Georgetown University
- Suwarno, Peter** (1993), Assistant Professor of Languages and Literatures; B.A., Satya Wacana Christian University (Indonesia); M.A., Ph.D., Ohio University
- Swafford, James R.** (1971), Professor Emeritus of Botany; B.S., M.S., Arizona State University
- Swagert, S. Laird** (1971), Professor Emeritus of Political Science; B.A., Western Illinois State Teachers College; M.A., Ph.D., University of Iowa
- Swaim, S. Daniel** (1975), Professor of Music; B.M., Cincinnati College Conservatory of Music, M.M.E., Indiana University, Bloomington; D.M.A., North Texas University
- Swan, Pamela** (1994), Assistant Professor of Exercise Science and Physical Education; B.A., University of California, Santa Barbara, M.S., University of North Carolina, Greensboro, Ph.D., University of Tennessee
- Swanson, Tod D.** (1988), Associate Professor of Religious Studies; B.A., University of Minnesota, Twin Cities, M.Div., Luther Theological Seminary; Ph.D., University of Chicago
- Swaty, Mary A.** (1968), Associate Librarian, Original Cataloging; B.A., University of Missouri, Columbia, M.L.S., Indiana University, Bloomington
- Sweeney, J. Gray** (1986), Professor of Art; B.A., University of New Mexico, M.A., Ph.D., Indiana University, Bloomington
- Sweeney, James D.** (1989), Assistant Professor of Engineering; Sc.B., Brown University, M.S., Ph.D., Case Western Reserve University
- Swimmer, Alvin** (1963), Associate Professor of Mathematics; B.S., Pennsylvania State University, M.S., New York University; Ph.D., University of California, Berkeley
- Swisher, Karen** (1986), Associate Professor of Multicultural Education, Director, Center for Indian Education; B.S., M.S., Northern State College, Ed.D., University of North Dakota
- Sylvester, Edward J.** (1982), Professor of Journalism and Telecommunication; A.B., Princeton University, M.A., City College
- Sylvester, Virginia R.** (1981), Associate Librarian, Head, Access Services; B.A., Hobart and William Smith Colleges, M.L.S., Rutgers, The State University
- Szarek, Stanley R.** (1974), Associate Professor of Botany; B.S., California State University, Pomona, Ph.D., University of California, Riverside
- Tambs, Lewis A.** (1969), Professor of History; B.S., University of California, Berkeley; M.A., Ph.D., University of California, Santa Barbara
- Tamir, Orit** (1994), Adjunct Faculty of Anthropology; B.A., University of Haifa (Israel); M.A., Ph.D., Arizona State University
- Tate, Donald J.** (1958), Professor Emeritus of General Business; B.S., Kansas State Teachers College, M.A., Ed.D., New York University
- Taylor, Jack J.** (1960), Professor Emeritus of Art; B.S., Kutztown State College; M.Ed., Pennsylvania State University
- Taylor, Jacqueline** (1984), Professor Emeritus of Nursing; B.S.N., University of Washington, M.S., University of North Carolina, Chapel Hill; Ph.D., University of Arizona
- Taylor, Janet R.** (1977), Professor of Art; B.F.A., Cleveland Institute of Art, M.F.A., Syracuse University
- Taylor, Thomas** (1983), Associate Professor of Mathematics; B.S., California State University, Ph.D., Harvard University
- Taysom, Elvin D.** (1953), Professor Emeritus of Agribusiness and Resource Management; B.S., University of Idaho, M.S., Utah State University; Ph.D., Washington State University
- Tenney, Lester I.** (1969), Professor Emeritus of Finance; B.A., University of Miami, M.A., San Diego State College; D.B.A., University of Southern California
- Tesón, Fernando R.** (1984), Professor of Law, J.D., University of Buenos Aires (Argentina), LL.M., Free University of Brussels (Belgium); S.J.D., Northwestern University
- Teye, Victor B.** (1984), Associate Professor of Recreation Management and Tourism; B.A., University of Ghana (Ghana), M.A., Ph.D., University of Manitoba (Canada)
- Tharp, Julie** (1991), Assistant Librarian, Reference Services; B.A., University of Hawaii, M.L.S., University of Arizona
- Theobald, Clarabelle** (1962), Professor Emeritus of Nursing; B.S.N., Arizona State University, M.S., University of California, Los Angeles; Ph.D., Arizona State University
- Thieme, Horst R.** (1988), Professor of Mathematics; M.S., Ph.D., University of Münster (West Germany)
- Thomas, Alfred Jr.** (1939), University Archivist Emeritus, University Archives; B.A., M.A., Arizona State University
- Thomas, George M.** (1981), Professor of Sociology; B.A., Arizona State University, M.A., Ph.D., Stanford University
- Thomas, Jerry R.** (1988), Professor of Exercise Science and Physical Education; B.A., Furman University, M.A., Ed.D., University of Alabama
- Thomas, Katherine T.** (1990), Assistant Professor of Exercise Science and Physical Education; B.S., University of Mississippi, M.S., University of Alabama, Birmingham; Ph.D., Louisiana State University

- Thomas, Keith J.** (1975), Professor Emeritus of Reading and Library Science, B.S., Illinois State University; M.A., Loyola University, Chicago, Ed.D., University of Arizona
- Thomas, Robert M.** (1982), Associate Research Specialist Chemistry and Biochemistry, B.A., Arizona State University
- Thomason, Leslie L.** (1969), Professor Emeritus of Technology, A.B., M.A., Ed.D., University of Oklahoma
- Thompson, D. Bruce** (1989), Adjunct Professor of Zoology; B.S., Kennesaw College; Ph.D., University of Illinois
- Thompson, Lee P.** (1955), Professor of Engineering, Dean Emeritus, College of Engineering and Applied Sciences, B.A., Indiana University; M.S., Ph.D., Texas A&M University, P.E.
- Thomsen, Jean** (1995), Assistant Professor of Theatre; B.A., Macalester College; M.A., Arizona State University, M.F.A., University of Arizona
- Thomson, Jeffrey** (1981), Professor of Theatre, B.A., Ripon College, M.A., University of Washington; M.F.A., Wayne State University
- Thomson, Ronald G.** (1947), Professor Emeritus of Physical Education, B.S., Springfield College; M.A., Arizona State University; Ed.D., University of Southern California
- Thomson, Tom R.** (1961) Professor Emeritus of Chemistry and Biochemistry; B.A., University of California, Berkeley; M.S., Ph.D., Kansas State University
- Thor, Eric P.** (1990), Professor of Agribusiness and Environmental Resources, Director, School of Agribusiness and Environmental Resources; Director, Center for Agribusiness Policy Studies, B.S., M.S., Ph.D., University of California, Berkeley
- Thorne, Anita** (1984), Faculty Associate of Nursing; Diploma, Allegheny General Hospital; B.S.N Ed. M.A., University of Pittsburgh
- Thornton, Sybil** (1994), Assistant Professor of History, B.A., University of California, Berkeley, B.A., University of Cambridge (England); M.A., San Francisco State University, M.A., Ph.D., University of Cambridge (England)
- Thurber, Frances** (1991), Associate Professor of Nursing, B.S.N., St. Anselm College; M.S.N., University of Pennsylvania, Ph.D., University of Michigan
- Tice, Thomas E.** (1967), Professor Emeritus of Engineering, B.S.E.E., M.S.E.E., Ph.D., Ohio State University
- Tidwell, Victor H.** (1971), Professor of Accountancy B.S., Illinois College, M.B.A., D.B.A., Indiana University, C.P.A., Arizona, Iowa
- Tillery, Bill W.** (1973), Professor of Physics and Astronomy/ Science Education, B.S., Northeastern State College, M.A., Ed.D., University of Northern Colorado
- Tillman, Hoyt C.** (1976), Professor of History, B.A., Belhaven College, M.A., University of Virginia; A.M., Ph.D., Harvard University
- Tippeconnic, John W. III** (1995), Professor of Educational Leadership and Policy Studies; B.S., Oklahoma State University, M.Ed., Ph.D., Pennsylvania State University
- Tipton, Gary P.** (1969), Assistant Professor of Chinese, B.A., Brigham Young University; Ph.D., Indiana University, Bloomington
- Tobiason, Sarah J.** (1963-67, 1974), Assistant Professor of Nursing; B.S.N., Vanderbilt University; M.A., Columbia University
- Tong, Timothy** (1986), Professor of Mechanical and Aerospace Engineering, Interim Director, Center for Energy Systems Research; B.S., Oregon State University; M.S., Ph.D., University of California, Berkeley
- Topus, Richard I.** (1984), Faculty Associate of Marketing; B.S., M.B.A., Hofstra University
- Tormey, Edward** (1980), Lecturer of Accountancy, B.A., Pepperdine University, M.B.A., Stanford University
- Torrest, Robert S.** (1980), Associate Professor of Engineering, B.S., Polytechnic Institute of Brooklyn; Ph.D., University of Minnesota, Twin Cities
- Towe, Bruce** (1984), Professor of Engineering; B.S., M.S., Ph.D., Pennsylvania State University
- Towill, Leslie R.** (1975), Associate Professor of Botany; B.S., M.S., University of Wisconsin, Milwaukee; Ph.D., University of Michigan
- Traaen, Teresa** (1993), Faculty Associate of Public Affairs; B.A., Northern Arizona University; M.A., Wheaton College; Ed.D., D.P.A., Arizona State University
- Trelease, Richard N.** (1971), Professor of Botany; B.S., M.S., University of Nevada, Reno; Ph.D., University of Texas, Austin
- Trennert, Robert A.** (1974), Professor of History, B.A., Occidental College; M.A., Los Angeles State College; Ph.D., University of California, Santa Barbara
- Trost, Melanie R.** (1991), Assistant Professor of Communication; B.S., Montana State University, M.A., Ph.D., Arizona State University
- Trotter, William T.** (1987), Regents' Professor of Mathematics, Chair, Department of Mathematics, B.S., The Citadel, M.A., Ph.D., University of Alabama
- Trujillo, Octaviana Valenzuela** (1995), Assistant Professor of Multicultural Education, B.A., M.A., Ph.D., Arizona State University
- Tsakalis, Konstantinos S.** (1988), Associate Professor of Electrical Engineering; B.S., National Technical University of Athens (Greece); M.S.E.E., Ph.D., University of Southern California
- Tsen, Kong-Tong** (1984), Associate Professor of Physics and Astronomy; B.S., Fu Jen Catholic University (Japan); M.S., Ph.D., Purdue University
- Tseng, Ampere A.** (1995), Professor of Mechanical and Aerospace Engineering, M.S., University of Illinois, Urbana; Ph.D., Georgia Institute of Technology
- Tsosie, Rebecca** (1993), Associate Professor of Law; B.A., J.D., University of California, Los Angeles
- Tsong, Ignatius S.T.** (1981), Professor of Physics and Astronomy, B.Sc., M.Sc., University of Leeds (England), Ph.D., University of London (England); D.Sc., University of Leeds (England)
- Tu, Eugenia Y.** (1973), Instructor of Chinese, B.Ed., Taiwan Normal University (Taiwan); B.A., University of Mary Hardin Baylor, M.S., University of Arizona
- Tucker, Bonnie P.** (1987), Professor of Law; B.S., Syracuse University; J.D., University of Colorado
- Tucker, Bruce E.** (1986), Associate Research Specialist, Cancer Research Institute, B.A., Grinnell College, M.A., Claremont Graduate School, Ph.D., University of Washington
- Turnbow, James W.** (1959), Professor Emeritus of Engineering, B.S.M.E., Texas Technological College, M.S.E.M., Ph.D., University of Texas
- Turner, Christy G. II** (1966), Regents' Professor of Anthropology; B.A., M.A., University of Arizona, Ph.D., University of Wisconsin, Madison
- Turner, Katharine C.** (1946), Professor Emeritus of English; B.Ed., Illinois State Normal School, M.A., Ph.D., University of Michigan
- Tutunjian, Vatche** (1992), Faculty Research Associate of Physics and Astronomy

- Tyburczy, James A.** (1985), Associate Professor of Geology, B.A., Whitman College, Ph.D., University of Oregon
- Tylavsky, Daniel J.** (1982), Associate Professor of Electrical Engineering, B.S.E., M.S.E., Ph.D., Pennsylvania State University
- Uhl, Rebecca S.** 1989, Associate Librarian, Original Cataloging, B.S., M.A., Colorado State University, M.S.L.I.S., University of Illinois
- Umberger, Emily** (1982), Associate Professor of Art, B.A., University of Pennsylvania; M.A., University of Texas, Austin; Ph.D., Columbia University
- Umberson, George E.** 1977, Professor of Music, Director, School of Music, B.M.E., Eastern New Mexico University, M.A., University of Iowa; Ed.D., University of Northern Colorado
- Underhill, Michael J.** 1990, Professor of Architecture, B.Arch., Massachusetts Institute of Technology, M.C.P.U.D., Harvard University
- Underwood, Max** 1985, Associate Professor of Architecture; B.S., University of Southern California; M.Arch., Princeton University
- Upchurch, Jonathan E.** 1982, Professor of Engineering; B.S., M.S., University of Illinois; Ph.D., University of Maryland
- Upton, Mark Roy** (1995), Faculty Associate of Construction; B.S., Michigan State University
- Urban, Joseph E.** (1989), Professor of Computer Science and Engineering, B.S., Florida State of Technology; M.S., University of Iowa, Ph.D., University of Southwestern Louisiana
- Urban, Susan D.** (1989), Associate Professor of Computer Science and Engineering, B.S., M.S., Ph.D., University of Southwestern Louisiana
- Urioste-Azcorra, Carmen** (1995), Assistant Professor of Languages and Literatures, Licenciada, University of Seville (Spain)
- Uttal, William R.** (1988), Professor of Engineering, B.S., University of Cincinnati; Ph.D., Ohio State University
- Valdivieso, L. Teresa** 1971, Professor of Spanish; Interim Director, Center for Latin American Studies, B.A., M.A.E., Ph.D., Arizona State University
- Valentine, Carol Ann** (1975), Associate Professor of Communication, B.A., M.A., University of Michigan; Ph.D., Pennsylvania State University
- Valentine, Kristin B.** (1976), Professor of Communication, B.S., University of Wisconsin, Madison, M.A., University of Washington, Ph.D., University of Utah
- Vallejo, Carlos J.** (1976), Associate Professor of Multicultural Education, Interim Director, Diversity, Recruitment, and Support Programs, B.S., Chadron State College, M.A., Ed.D., University of Nebraska, Lincoln
- Valverde, Leonard A.** (1992), Professor of Curriculum and Instruction and Educational Leadership and Policy Studies; Dean, College of Education, B.A., California State University, Los Angeles; Ph.D., Claremont Graduate School
- Vanacour, Martin** (1987), Faculty Associate of Public Affairs; B.A., State University of New York, Buffalo; M.P.A., New York University, D.P.A., Arizona State University
- Van Gelderen, Elly** 1995, Assistant Professor of English; B.S., Utrecht University; M.A., Ph.D., McGill University
- Van Hook, Barry L.** 1976, Associate Professor of Management, B.S., Illinois State University; M.S., Ed.D., Northern Illinois University
- Van Orden, Guy C.** (1987), Associate Professor of Psychology, B.S., University of Oregon, M.A., Ph.D., University of California, San Diego
- Van Wagenen, R. Keith** (1963), Professor Emeritus of Education, B.A., Pacific Union College, M.A., Arizona State University, Ph.D., University of Utah
- Vanden Heuvel, Michael J.** (1989), Associate Professor of English, B.A., University of Wisconsin, Madison, M.A., University of Chicago; Ph.D., University of Wisconsin, Madison
- Vanderhoff, Barbara A.** 1968, Associate Librarian, Acquisitions/Bibliographic Records Department, B.A., Fort Hays State University; M.A., University of Denver
- VanderMeer, Philip R.** 1985, Associate Professor of History, B.A., Calvin College, M.A., Ph.D., University of Illinois
- Vaughan, Linda A.** 1982, Associate Professor of Family Resources and Human Development; B.S., University of California, Davis, M.N.S., Cornell University; Ph.D., University of Arizona
- Veatch, Jeannette** 1968, Professor Emeritus of Education; A.B., Western Michigan University; M.A., Ph.D., New York University
- Vega, Santos C.** (1989), Associate Research Specialist, Hispanic Research Center, B.A., M.Ed., University of Arizona, Ph.D., Arizona State University
- Venables, John** (1986), Professor of Physics and Astronomy; B.A., Ph.D., University of Cambridge (England)
- Verdini, William A.** 1976, Associate Professor of Management Science, B.S., Case Western Reserve University, M.B.A., D.B.A., Kent State University
- Vergis, John P.** (1954), Professor Emeritus of Education, B.S., M.A., New York University, Ed.D., University of Southern California
- Vermaas, Willem F.J.** (1986), Professor of Botany, Ph.D., Agricultural University Netherlands
- Verstegen, Clare M.** (1989), Associate Professor of Art; B.S., University of Wisconsin, Stevens Point, M.F.A., Cranbrook Academy of Art
- Vestre, Norris D.** (1972), Professor Emeritus of Psychology; B.A., Ph.D., University of Minnesota, Twin Cities
- Villanueva, Virginia** 1995, Faculty Associate of Nursing; B.S.N., M.S., Arizona State University
- Villereal, Gary L.** (1995), Assistant Professor of Social Work; B.A., M.A., Oakland University, Rochester, Michigan; Ph.D., University of Pittsburgh
- Vining, David C.** 1975, Associate Professor of Theatre, B.A., University of Redlands, M.F.A., University of Minnesota, Twin Cities
- Vinzant, Janet** (1995), Associate Professor of Public Affairs, B.A., Washington State University, M.P.A., Ph.D., University of Southern California
- Virden, Randy J.** 1984, Associate Professor of Recreation Management and Tourism; B.S., M.S., Arizona State University; Ph.D., Utah State University
- Virgillo, Carmelo** (1965), Professor Emeritus of Romance Languages; A.B., State University of New York, Albany; A.M., Ph.D., Indiana University
- Vissicaro, Pegge Harper** (1983), Assistant Professor of Dance, B.F.A., University of Michigan, M.F.A., University of North Carolina, Greensboro
- Vitulo, Juliann** (1990), Assistant Professor of Languages and Literatures; B.A., University of Illinois; M.A., Ph.D., Indiana University, Bloomington

- Vogt, Christine** (1993) Assistant Professor of Recreation Management and Tourism B.S., Indiana University, Bloomington, M.B.A., University of St. Thomas, Ph.D., Indiana University, Bloomington
- Volek, Emil** 1975, Professor of Spanish; Prom. Phil., Ph.D., Charles University, Prague Czechoslovakia
- Von der Heydt, Alfred** 1950, Professor Emeritus of Foreign Languages, Diploma University of Frankfurt on the Main (West Germany), M.A., Yale University, Ph.D., Cornell University
- Voss, Howard G.** (1964) Professor of Physics and Astronomy, Chair, Department of Physics and Astronomy; A.B., Hope College, M.N.S., Arizona State University, M.S., Purdue University
- Voth, Annette** 1988 Associate Librarian, Music Library; B.Mus., University of Kansas; M.L.S., M.A., University of California, Berkeley
- Votichenko, T. Alexander** (1956), Professor Emeritus of Philosophy, A.B., Princeton University, M.A., Columbia University
- Wachtel, Thomas L.** (1985), Adjunct Professor of Bioengineering; A.B., Case Western Reserve University; M.D., St. Louis University
- Wagner, J. Bruce Jr.** 1977 Regents' Professor Emeritus Center for Solid State Science and Chemistry and Biochemistry, B.S., Ph.D., University of Virginia
- Wagner, Ronald F.** (1962), Professor Emeritus of Art, B.S. University of Wisconsin, Madison; M.F.A., University of Iowa
- Walker, Beth A.** (1988) Associate Professor of Marketing; B.S., Virginia Polytechnic Institute and State University M.S., Ph.D., Pennsylvania State University
- Walker, John E.** (1970) Professor Emeritus of Educational Administration and Supervision, B.A., Albion College M.A. Michigan State University, Ed.D., Utah State University
- Walker, Mark R.** 1991, Faculty Associate of Electrical Engineering; M.S., Ph.D., Arizona State University
- Walker, Stephen G.** (1969), Professor of Political Science, B.A., Creighton University M.A. Ph.D. University of Florida
- Wallace, Charles E.** (1958), Professor of Mechanical and Aerospace Engineering B.S., Lewis and Clark College; M.S., Oregon State University Ph.D., Stanford University
- Wallen, Carl J.** (1973), Professor of Elementary Education, B.A. University of California, Santa Barbara, M.A., San Francisco State College, Ed.D., Stanford University
- Walsberg, Glenn E.** 1978, Professor of Zoology; B.S., California State University Long Beach, Ph.D., University of California, Los Angeles
- Walsh, Kenneth D.** 1994, Assistant Professor of Construction B.S.E., M.S., Ph.D., Arizona State University
- Walters, Sheila A.** 1971, Librarian, Head, Interlibrary Loan and Document Delivery Services; B.A., University of Oklahoma; M.L.S., Louisiana State University
- Wamacks, Naomi W.** 1968, Professor Emeritus of Secondary Education, B.A. M.A. Ed.D., Arizona State University
- Wang, Alan P.** 1970, Professor of Mathematics; B.A., Washington State University, M.A., Ph.D., University of California, Los Angeles
- Wang, Cecelia** (1971) Professor of Mathematics, B.A., Immaculate Heart College, M.A., Ph.D., University of California Los Angeles
- Wang, Edward Y.** 1979 Professor of Engineering, B.S. Morningside College; M.S., Purdue University; Ph.D., Tufts University
- Ward, Cynthia V.** 1991, Professor of Law, B.A. Wellesley College, J.D., Yale University
- Ward, Jack W.** (1964), Professor Emeritus of Construction, B.S.C.E., University of Idaho
- Ward, James C.** 1986, Associate Professor of Marketing, B.A., M.B.A., Ph.D., University of Minnesota, Twin Cities
- Warden, Herbert N.** 1995, Assistant Professor of Aerospace Studies; B.S., U.S. Air Force Academy M.B.A., Embry Riddle Aeronautical University
- Warner, Carolyn** 1994, Assistant Professor of Political Science; B.A., University of California, San Diego; M.A., Ph.D., Harvard University
- Warnicke, Retha M.** (1972), Professor of History, Chair Department of History; A.B., Indiana University; M.A. Ph.D., Harvard University
- Warren, Morrison F.** 1968, Professor Emeritus of Education B.A., M.A., Ed.D., Arizona State University
- Warren-Findley, Jannelle** 1992, Associate Professor of History; B.A., Texas Woman's University; M.Phil., Ph.D., George Washington University
- Wasserman, Judith R.** (1991), Assistant Professor of Planning and Landscape Architecture; B.A., M.L.A., M.R.P., Cornell University
- Watkins, Thomas B.** (1972) Professor Emeritus of Technology B.S., University of Wyoming, M.S., Arizona State University
- Watrous, Lyle C.** 1962 Librarian Emeritus, Curriculum Service, A.B., University of North Carolina, B.S., Carnegie Institute of Technology
- Watson, Clyde W.** 1971, Professor Emeritus of Art; B.F.A., Bethany College, M.A., Kansas State University
- Watson, George L.** 1969 Associate Professor of Journalism and Telecommunication, B.A. Phillips University, M.A., Ph.D. Duke University
- Webb, L. Dean** 1978, Professor of Educational Administration and Supervision; Dean College of Education, B.A., M.A.T., Ph.D., University of Florida
- Webber, Andrew N.** (1989) Associate Professor of Botany, B.Sc., Ph.D., University of Essex (England)
- Weber, Sandra** 1985, Associate Professor of Construction, B.S.C.E., M.S.C.E., University of California, Berkeley
- Webber, Sandra L.** (1993), Assistant Librarian, Government Documents; B.A., University of California, Riverside, M.L.S., University of Arizona
- Weeks, Lawrence B.** (1981), Clinical Professional, Law, B.A. Harvard University, J.D. University of Arizona
- Wegner, Artroll L.** 1957, Professor Emeritus of Physical Education, B.S. Wisconsin State College M.S., University of Wisconsin, Madison, P.E.D. Indiana University
- Wehinger, Peter A.** 1984, Research Professional, Physics and Astronomy, B.S., Union College, M.A., Indiana University Ph.D., Case Institute of Technology
- Weidemaier, William** 1977 Senior Lecturer of University Honors College, B.A., Northern Arizona University; M.A., Ph.D., Arizona State University
- Weigand, Robert F.** 1990, Lecturer of Family Resources and Human Development; Director, Child Laboratory Programs; B.S. University of Scranton, M.S. Purdue University
- Weigend, Guido G.** 1976, Professor Emeritus of Geography Dean Emeritus College of Liberal Arts and Sciences; B.S., M.S., Ph.D., University of Chicago
- Weiner, Gordon M.** 1968, Professor Emeritus of History, A.B. Ph.D., University of Pennsylvania

- Weinstein, Allan M.** (1983), Adjunct Professor of Bioengineering; B.S., M.S., Ph D. Polytechnic Institute of New York
- Weinstein, James** (1986), Professor of Law, B.A., J.D. University of Pennsylvania
- Weiser, Kurt** 1989. Associate Professor of Art, B.F.A., Kansas City Art Institute; M.F.A., University of Michigan
- Weiss, James R.** (1990), Faculty Associate, Center for Environmental Studies; B.S., M.S., Arizona State University
- Weiss, Karl H.** (1984), Research Specialist, Center for Solid State Science, B.S., Ursinus College, M.S., University of Arizona
- Weiss, Neil A.** (1970), Professor of Mathematics; B.A., M.A., Ph.D. University of California, Los Angeles
- Weitz, Rose** (1978), Professor of Sociology, B.A., City University of New York; M.A., Ph.D., Yale University
- Weizel, Avi** (1995), Assistant Professor of Construction, B.Sc.C.E., Polytechnic Institute of Timisoara (Romania), M.Sc.C.E., Ph.D., Technion
- Welch, H. William** (1967), Professor Emeritus of Engineering; B.A., DePauw University, M.S., Ph.D., University of Michigan; P.E.
- Welch, Nancy** (1995), Associate Research Specialist, Public Programs
- Welsh, Peter H.** (1986), Assistant Professor of Anthropology, B.A., Northern Arizona University; M.A., Ph.D., University of Pennsylvania
- Welfert, Bruno** 1990, Assistant Professor of Mathematics; M.A., University of Paris VI (France); Ph.D., University of California, San Diego
- Wells, Barrie E.** (1981), Professor of Music, B.M., M.M., University of the Pacific; D.M.A., University of Oregon
- Wells, Christine L.** (1976), Professor of Exercise Science and Physical Education, B.S., University of Michigan, M.S., Smith College, Ph.D., Pennsylvania State University
- Wells, Valana L.** (1987), Associate Professor of Engineering; A.B., M.S., Ph.D., Stanford University
- Wentz, Richard E.** 1972, Professor of Religious Studies, A.B., Ursinus College; B.D., Lancaster Theological Seminary, M.Phil., Ph.D., George Washington University
- Wesbury, Stuart A. Jr.** 1994, Professor of Health Administration and Policy; B.S., Temple University, M.H.A., University of Michigan, Ph.D., University of Florida
- Weschler, Louis F.** (1980), Professor of Public Affairs, B.A., California State University, Long Beach; M.A., Ph.D., University of California, Los Angeles
- West, A. Christine** (1988), Associate Librarian, Acquisitions/Bibliographic Records Department, B.A., Valdosta State College, M.Ed., University of Georgia, M.L.S., Florida State University
- West, Stephen G.** (1981), Professor of Psychology, B.A., Cornell University, M.A., Ph.D., University of Texas
- Westerhoff, Paul** (1995), Assistant Professor of Civil and Environmental Engineering, B.S., Lehigh University; M.S., University of Massachusetts, Amhurst; Ph.D., University of Colorado, Boulder
- Westie, Frank R.** (1983), Adjunct Professor of Sociology; B.S., Central Michigan University, Ph.D., Ohio State University
- Wetsel, W. David** (1989), Professor of French, B.A., University of Texas, Austin; M.A., University of Chicago, M.A., Ph.D., Brandeis University
- Wexler, Kathryn** 1992, Faculty Associate of Speech and Hearing Science; B.A., University of Michigan, M.S., Tulane University
- Wheatley, John C.** (1983), Senior Research Professional, Physics and Astronomy, B.S., Arizona State University
- Wheeler, Jacqueline** (1994), Lecturer of English; B.S., M.A., Northern Arizona University, Ph.D., Arizona State University
- Wheeler, Michael D.** (1975), Senior Research Professional, Chemistry and Biochemistry, B.S., University of Wisconsin, Madison
- Whiffen, Marcus** (1960), Professor Emeritus of Architecture; B.A., M.A., University of Cambridge (England)
- Whitam, Frederick L.** (1966), Professor of Sociology; Associate Chair, Department of Sociology; B.A., Millsaps College; A.M., Ph.D., Indiana University, Bloomington
- White, Barbara** (1990), Faculty Associate of Nursing; B.S.N., M.S., Virginia Commonwealth University
- White, Harold C.** (1966), Professor Emeritus of Management, B.S., M.S., University of Oregon; Ph.D., University of Florida
- White, James J.** (1991), Visiting Assistant Professor, Chemistry and Biochemistry, B.A., Idaho State University; M.S., Ph.D., University of Arizona
- White, James R.** (1981), Professor of Art; B.F.A., M.F.A., Ohio University
- White, John P.** (1963), Professor Emeritus of Political Science, A.B., University of Cincinnati, A.M., Ph.D., University of Chicago
- White, Michael J.** 1974, Professor of Philosophy; B.A., Arizona State University; M.A., Ph.D., University of California, San Diego
- Whitehurst, Harry B.** (1958), Professor Emeritus of Chemistry and Biochemistry; B.A., M.A., Ph.D., William Marsh Rice University
- Whysong, Gary L.** 1974, Associate Professor of Environmental Resources, B.S., M.S., Montana State University, Ph.D., University of Wyoming
- Wie, Bong** (1989), Professor of Engineering, B.S., Seoul National University (South Korea); M.S., Ph.D., Stanford University
- Wiesel, Avi** (1995), Assistant Professor of Construction; B.Sc.C.E., Polytechnic Institute of Timisoara (Romania), M.Sc.C.E., Ph.D., Technion Israel Institute of Technology (Israel)
- Wiggins, Harry B.** (1987), Senior Lecturer Emeritus of Purchasing and Logistics Management, B.S., U.S. Merchant Marine Academy; B.S., University of Vermont; M.B.A., Harvard University
- Wilcox, M. Jeanne** 1990, Professor of Speech and Hearing Science, Chair, Department of Speech and Hearing Science; B.A., Kansas State, M.A., Ph.D., Memphis State University
- Wilcox, Sidney W.** (1955), Professor Emeritus of Engineering; B.A., Bethany Peniel College; M.A., University of Oklahoma
- Wiley, Robert O.** (1995), Visiting Assistant Professor of Chemistry and Biochemistry, B.A., Temple University; Ph.D., Arizona State University
- Wilkens, Barry J.** (1992), Research Specialist, Center for Solid State Science; B.A., Columbia Union College, M.S., Rutgers, The State University
- Wilkins, Wendy K.** (1986), Associate Professor of English; Associate Dean for Administration and Personnel, College of Liberal Arts and Sciences; Chair, Department of English, B.A., M.A., Ph.D., University of California, Los Angeles
- Wilkinson, Christine K.** (1970), Associate Professor of Higher Education, Vice President for Student Affairs, B.A., Arizona State University; M.A., University of California, Berkeley, Ph.D., Arizona State University
- Wilkinson, Joseph W.** (1964), Professor of Accountancy, B.S., Carnegie Institute of Technology; M.B.A., Stanford University; D.B.A., University of Oregon, C.P.A., California

- Williams, Frank G.** (1975), Professor of Health Administration and Policy; Director, School of Health Administration and Policy, B.S., M.A., Oregon State University; M.A., Ph.D., University of Iowa
- Williams, Jenny L.** (1967), Associate Librarian, Original Cataloging; B.A., M.A., Indiana University
- Williams, Peter** (1981), Professor of Chemistry and Biochemistry, B.S., Ph.D., University of London (England)
- Williams, Philip F.C.** (1986), Associate Professor of Chinese, B.A., University of Arkansas, M.A., Ph.D., University of California, Los Angeles
- Williams, Robert C.** (1978), Professor of Anthropology; B.A., M.A., University of Cambridge (England); B.A., M.A., Ph.D., University of Michigan
- Williams, Stanley N.** (1991), Professor of Geology, B.S., Beloit College; M.A., Ph.D., Dartmouth College
- Williamson, Madeline J.** (1976), Professor of Music; Interim Associate Dean, Graduate College; B.A., Ohio Wesleyan University; M.M., Western Michigan University, D.M.A., Arizona State University
- Willis, Wayne T.** (1989), Associate Professor of Exercise Science and Physical Education, A.B., University of California, Berkeley, M.A., San Francisco State University, Ph.D., University of California, Berkeley
- Wills, Barbara Salisbury** (1994), Associate Instructional Professional; B.A., M.A., Ph.D., University of Washington
- Wills, J. Robert** (1994), Professor of Theatre, Dean, College of Fine Arts, B.A., College of Wooster, M.A., University of Illinois Ph.D., Case Western Reserve University
- Wilson, Loretta L.** (1947), Professor Emeritus of Communication; B.A., University of South Dakota, M.A., Northwestern University
- Wilson, Gail Eugene** (1972), Associate Professor of Music; B.S., Ohio State University; M.M., Arizona State University
- Wilson, Gloria N.** (1961), Associate Professor of Educational Media and Computers; B.A., Montclair State College, M.A., Ed.D., Columbia University
- Wilson, Jeffrey R.** (1985), Associate Professor of Statistics, B.A., University of the West Indies Trinidad and Tobago; M.S., Ph.D., Iowa State University
- Wilson, Lorna A.** (1968), Instructor Emeritus of French, B.Ed., University of Saskatchewan (Canada), M.A., Arizona State University
- Wilson, Margo** (1993), Faculty Associate of Speech and Hearing Science; B.S., M.A., University of Nebraska, Lincoln, Ph.D., University of Kansas
- Wilson, Patricia M.** (1987), Associate Professor of Family Resources and Human Development; B.S., M.Ed., Iowa State University, Ph.D., Oklahoma State University
- Wilt, Glenn A. Jr.** (1963), Associate Professor of Finance; B.A., Occidental College, M.B.A., Miami University, Ph.D., University of Michigan; C.F.A.
- Windhorst, Rogier A.** (1987), Associate Professor of Physics and Astronomy, B.Sc., M.Sc., Ph.D., University of Leiden (Netherlands)
- Winer, Laurence H.** (1983), Professor of Law, B.A., M.A., Ph.D., Boston University; J.D., Yale University
- Winkelman, Michael** (1988), Lecturer of Anthropology; B.A., William Marsh Rice University, Ph.D., University of California, Irvine
- Winkelman, Richard D.** (1965), Associate Professor of Economics; B.A., Southern Illinois University; M.A., Ph.D., University of Illinois
- Wintergalen, Barbara A.** (1992), Faculty Associate of Nursing; B.S.N., Loretto Heights College, M.S., Arizona State University
- Wirtz, Dorothy** (1959), Professor Emeritus of French, B.A., University of Iowa; M.A., Ph.D., University of Wisconsin
- Wiseman, Douglas E.** (1976), Professor Emeritus of Special Education; B.S., M.A., Eastern Michigan University, Ph.D., University of Illinois
- Wiseman, Greta** (1984), Faculty Associate of Nursing; B.S.N., Hamline University; M.S., Arizona State University
- Wiseman, Robert M.** (1991), Assistant Professor of Management; B.B.A., University of Wisconsin, La Crosse, M.B.A., University of Wisconsin Milwaukee, Ph.D., University of Minnesota
- Withey, Michael B.** (1993), Faculty Associate of Law, B.A., Western Michigan University; J.D., University of Arizona
- Witt, Tom** (1975), Associate Professor of Design, B.A., M.A., M.F.A., University of California, Los Angeles
- Wixted, J. Timothy** (1978), Professor of Asian Languages, B.A., University of Toronto (Canada), A.M., Stanford University, D.Phil., University of Oxford (England)
- Wochner, Raymond E.** (1952), Professor Emeritus of Education, B.S., York College; M.A., University of Nebraska, Lincoln, Ph.D., University of Wyoming
- Wolchik, Sharlene** (1980), Professor of Psychology, B.A., Vassar College; M.S., Ph.D., Rutgers, The State University
- Wolf, Donald J.** (1969), Professor Emeritus of Political Science; B.A., M.A., Gonzaga University, S.T.M., University of Santa Clara, Ph.D., Georgetown University
- Wolf, George H.** (1986), Associate Professor of Chemistry and Biochemistry, B.A., University of California, San Diego; M.S., Ph.D., University of California, Berkeley
- Wolf, Robert Lee** (1985), Professor of Design, Director, School of Design; B.S., Southern Illinois University, Carbondale, M.A., University of Missouri; Cert. Konstindustrikskolan, Goteborg (Sweden)
- Wolf, W. Shapard Jr.** (1983), Associate Research Administrator, Sociology; Director, Survey Research Laboratory, Sociology, B.F.A., Florida State University; M.Ed., University of Georgia
- Wolfe, Philip M.** (1988), Professor of Industrial and Management Systems Engineering; B.S., University of Missouri, M.S.E., Ph.D., Arizona State University
- Wolfthal, Diane** (1995), Assistant Professor of Art, B.A., M.A., City University of New York; Ph.D., Institute of Fine Arts, New York University
- Wollam, Owen A.** (1964), Professor Emeritus of French; B.A., M.A., Montana State University Ph.D., University of Washington
- Wolthering, Dianne, Capt.** (1992), Assistant Professor of Aerospace Studies
- Wong, Timothy** (1995), Professor of Languages and Literatures; B.A., St. Mary's College; M.A., University of Hawaii; Ph.D., Stanford University
- Wood, Billy G.** (1977), Associate Professor of Technology, A.B., University of California, B.S., Eastern Illinois University; M.S., University of Arizona
- Wood, Byard D.** (1970), Professor of Mechanical and Aerospace Engineering, B.S.M.E., M.S.M.E., Utah State University, Ph.D., University of Minnesota, Twin Cities
- Wood, Patricia** (1994), Law Librarian, Reference; B.A., A.M.L.S., University of Michigan

- Wood, Steven D.** (1975), Professor of Decision and Information Systems, B.S., M.A., California State University, San Diego; Ph.D., University of Wisconsin, Madison
- Woodbury, Neal W.** (1987), Associate Professor of Chemistry and Biochemistry, B.S., University of California, Davis; Ph.D., University of Washington
- Woodfill, Marvin C.** (1966), Professor of Computer Science and Engineering, B.S., M.S., Ph.D., Iowa State University
- Wooding, Robert R.** (1971), Professor Emeritus of Construction, B.S., United States Naval Academy; B.C.E., M.C.E., Rensselaer Polytechnic Institute
- Woodman, Natalie J.** (1969), Professor Emeritus of Social Work, B.A., New York University, M.S.S., Smith College
- Woods, Roosevelt Jr.** (1965), Professor Emeritus of Art, B.S., M.A., Arizona State University
- Woodward, Mark R.** (1985), Associate Professor of Religious Studies; B.A., M.A., Ph.D., University of Illinois
- Wooldridge, Charles B.** (1959), Professor Emeritus of Engineering; A.B., B.S., University of Kentucky; M.S., Ph.D., Purdue University
- Wooldridge, Mary C.** (1959), Professor Emeritus of Family Resources and Human Development, B.S., M.S., University of Kentucky; Ph.D., Purdue University
- Woolf, Charles M.** (1961–63, 1964), Professor Emeritus of Zoology; Dean Emeritus, College of Liberal Arts and Sciences and Graduate College, B.S., M.S., University of Utah; Ph.D., University of California, Berkeley
- Woolsey, D. Kristine** (1988), Assistant Professor of Architecture, M.Arch., Arizona State University
- Wootton, Richard T.** (1964), Professor Emeritus of Education; B.S., M.S., Ed.D., University of Utah
- Wootten, William W.** (1959), Professor Emeritus of History; B.A., University of Chicago; M.A., University of Iowa, Ph.D., University of Minnesota, Twin Cities
- Wotring, Roxena A.** (1994), Faculty Associate of Nursing; B.S.N., M.S., Arizona State University
- Wrenn, C. Gilbert** (1965), Professor Emeritus of Counselor Education; A.B., Willamette University; M.A., Ph.D., Stanford University, LL.D., Willamette University
- Wright, Robert L.** (1991), Faculty Associate of Manufacturing and Industrial Technology, B.S., J.D., Arizona State University
- Wright, M. Lin** (1973), Professor of Theatre, Chair, Department of Theatre; B.A., M.A., Ph.D., University of Minnesota, Twin Cities
- Wu, Ai-hwa** (1964), Librarian, Original Cataloging, B.A., National Taiwan University, Taiwan, M.L.S., University of Washington
- Wulk, Ned W.** (1957), Professor Emeritus of Physical Education; B.S., Wisconsin State University, M.Ed., Xavier University
- Wurzburger, Marilyn J.** (1960), Librarian, Head, Special Collections, B.A., MacMurray College
- Wurzell, Carol A.** (1965), Professor Emeritus of Nursing, B.S., California State College, Chico, M.S., University of Maryland, College Park
- Wyckoff, Susan** (1979), Professor of Physics and Astronomy; B.A., Mount Holyoke College; Ph.D., Case Western Reserve University
- Wyndelts, Robert W.** (1974), Professor of Accountancy, B.B.A., M.P.A., Georgia State University; Ph.D., University of Georgia; C.P.A., Arizona, Georgia
- Wytko, Joseph R.** (1975), Professor of Music, B.M.E., West Virginia University, M.M., D.M., Northwestern University
- Yabes, Ruth Ammerman** (1990), Assistant Professor of Planning and Landscape Architecture; B.S. (Planning), B.S. (Economics), University of California, Davis; M.C.P., University of Pennsylvania; Ph.D., Cornell University
- Yaghi, Omar M.** (1992), Assistant Professor of Chemistry and Biochemistry; B.S., State University of New York, Albany; Ph.D., University of Illinois
- Yale, Francis G.** (1952), Professor Emeritus of Physics and Astronomy/Science Education, A.B., M.A., University of Northern Colorado, Ed.D., Columbia University
- Yamaguchi, Gary T.** (1989), Associate Professor of Engineering; A.B., Occidental College; B.S., California Institute of Technology, S.M.M.E., Massachusetts Institute of Technology, Ph.D., Stanford University
- Yamamori, Tetsumao** (1989), Adjunct Professor of Sociology; B.A., Northwest Christian College, B.D., Texas Christian University, Ph.D., Duke University
- Yaniv, Daphna** (1992), Senior Research Professional, Chemistry and Biochemistry, B.S., Ph.D., Israel Institute of Technology (Israel)
- Yao, Lun-Shin** (1981), Professor of Engineering, B.S.E., Cheng Kung University, M.S., University of Texas, Ph.D., University of California, Berkeley
- Yao, Winberta M.** (1975), Associate Librarian, Reference Service, B.A., University of California, M.S., Columbia University
- Yates, Ann M.** (1978), Associate Research Professional, Chemistry and Biochemistry; B.S., St. Lawrence University; Ph.D., Arizona State University
- Yau, Stephen S.** (1994), Professor of Computer Science and Engineering, Chair, Department of Computer Science and Engineering, B.S., National Taiwan University (Taiwan), M.S., Ph.D., University of Illinois, Urbana
- Ybarra, Gloria** (1995), Faculty Associate, College of Law; B.A., Saint Mary's College of Notre Dame, J.D., Harvard University
- Yeater, James W.** (1958), Professor Emeritus of Theatre, B.A., Baker University, M.A., University of Washington, Ph.D., University of Illinois
- Yoshioka, Carlton** (1988), Professor of Recreation Management and Tourism, Chair, Department of Recreation Management and Tourism, B.A., University of California, Santa Barbara; M.A., California State University, Chico; Ph.D., University of Oregon
- Youn, Kyu Ho** (1991), Associate Professor of Journalism and Telecommunication; B.A., Konkuk University (South Korea), M.A., Ph.D., Southern Illinois University, Carbondale
- Young, Bernard** (1988), Associate Professor of Art; B.F.A., Temple University, M.F.A., Ph.D., Cornell University
- Young, Denise I.** (1990), Faculty Associate of Law; B.A., Stevens College, J.D., University of Arizona
- Young, Dennis L.** (1975), Professor of Mathematics, B.S., St. Louis University, M.S., Ph.D., Purdue University
- Young, Hewitt H.** (1967), Professor Emeritus of Engineering, B.S.M.E., M.S.I.E., Case Institute of Technology, Ph.D., Arizona State University
- Young, Joseph E.** (1979), Associate Professor of Art; B.A., California State University at Los Angeles; M.A., University of California, Los Angeles
- Young, Otis E. Jr.** (1963), Professor Emeritus of History; A.B., A.M., Ph.D., Indiana University
- Young, Michael Cochise** (1990), Associate Dean, University Honor College; B.A., St. Joseph's University; M.A., Ph.D., University of Pennsylvania

Youngblood, Robert L. (1973). Professor of Political Science: B.A., Willamette University; M.A., University of Hawaii, Manoa; Ph.D., University of Michigan

Zacher, Robert V. (1947). Professor Emeritus of Advertising: B.S., M.S.B.A., University of Alabama

Zaniewski, John (1986). Associate Professor of Engineering: B.S.C.E., M.S.C.E., Ph.D., University of Texas, Austin

Zaslow, Bertram (1956). Professor Emeritus of Chemistry and Biochemistry: B.A., Cornell University; M.S., University of Minnesota, Twin Cities; Ph.D., Iowa State University

Zatz, Marjorie S. (1982). Professor of Justice Studies; B.A., University of Massachusetts, Amherst; M.A., Ph.D., Indiana University, Bloomington

Zautra, Alex (1976). Professor of Psychology; Director, Clinical Program in Psychology; B.A., Antioch College; M.S., Ph.D., University of Utah

Zeitlin, Marilyn A. (1992). Director, University Art Museum; A.B., M.A., Harvard University

Zeng, Gualiang (1991). Assistant Professor of Electronics and Computer Technology; B.S., Chengdu Telecommunication Institute (China); M.S., University of California, San Diego; M.N.S., Ph.D., Arizona State University

Zettler, Hugo F. (1977). Faculty Associate of Law; B.S., Arizona State University; J.D., University of Arizona

Zimiles, Herbert (1988). Professor of Early Childhood Education; B.A., New York University; Ph.D., University of Rochester

Zimmer, Carl R. (1959). Professor Emeritus of Engineering: B.S.E.E., Cornell University; M.S.E.E., Ph.D., Syracuse University

Zimmerman, Allan D. (1988). Adjunct Assistant Professor of Botany; B.S., University of Arizona; Ph.D., University of Texas, Austin

Ziurys, Lucy M. (1988). Associate Professor of Chemistry and Biochemistry; B.A., William Marsh Rice University; Ph.D., University of California, Berkeley

Zorita, Paz Mendez-Bonito (1993). Assistant Professor of Social Work; A.S., School of Social Work of Gijón (Spain); M.S.S.A., Ph.D., Case Western Reserve University

Zucker, Stanley H. (1975). Professor of Special Education; Academic Program Coordinator, Special Education; B.A., State University of New York, Stony Brook; M.S., Hofstra University; Ph.D., University of Missouri, Columbia

Zuckerman, Howard S. (1991). Professor of Health Administration and Policy; B.A., Hunter College; M.B.A., Xavier University; Ph.D., University of Michigan

Zuo, Jian-Min (1989). Assistant Research Scientist of Physics and Astronomy; B.S., Nanjing University; Ph.D., Arizona State University

Zwiebel, Imre (1979). Professor of Engineering; B.S., University of Michigan; M.S., Ph.D., Yale University

Zygas, K. Paul (1984). Associate Professor of Architecture; A.B., M.Arch., Harvard University; Ph.D., Cornell University

Zylla, Julie (1988). Lecturer of Family Resources and Human Development; B.S., South Dakota State University; M.S., Arizona State University



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JOHN M. COWLEY

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RAYMOND W. KULHAVY

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SHENG H. LIN

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JAMES W. MAYER

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DENNIS J. PALUMBO

Regents' Professor of Justice Studies

GEORGE R. PETTIT

Regents' Professor of Chemistry and Biochemistry

ALBERTO ALVARO RIOS

Regents' Professor of English

JOHN C.H. SPENCE

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To July 1996

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To January 1998

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To January 2000

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To January 2002

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To January 2004

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ASU West

See page 515 for a list of ASU West administrators.

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ASU West

Ben R. Forsyth, M.D.
Vice President and Provost

ASU West was established in 1984 to meet the higher education needs of residents of western Maricopa County. It is a nonresidential campus of ASU that offers upper division and graduate courses. ASU West offers baccalaureate degrees in 21 academic majors in the arts and sciences and selected professional fields. The campus also offers four certificate programs and master's degree programs in Business Administration, Educational Administration and Supervision, Elementary Education, and Secondary Education.

ASU West prepares students to be successful in the global society of the 21st century by engendering a responsiveness to change and an appreciation of intellectual, cultural, gender, and generational diversity. The campus is committed to encouraging the educational, economic, cultural, and social development of the metropolitan area.

Academic programs and support services are designed to meet the needs of working adults and traditional students pursuing degrees, seeking career growth, or furthering their knowledge. The graduate programs are designed primarily for persons employed full time in businesses and schools. Most graduate courses, as well as undergraduate courses, are offered in the evening.

With an enrollment of about 5,000 students, ASU West has a small college atmosphere; yet, students have access to the resources of a major research university. The ASU West campus, consisting of seven buildings totaling about 600,000 square feet, provides state-of-the-art facilities in a beautifully landscaped environment. The 300-acre campus is easily accessible via major interstate routes.

Accreditation

ASU West is accredited by the North Central Association of Colleges and Schools. Professional programs in various academic areas are also accredited by the following agencies.

All Business and Accountancy degree programs in the School of Management are accredited by the American Assembly of Collegiate Schools of Business (AACSB), the official accrediting agency in the field of business administration.

In the College of Human Services, the Department of Recreation and Tourism Management is accredited by the National Recreation and Park Associa-

tion/American Association for Leisure and Recreation (NRPA/AALR) and the undergraduate Social Work program is accredited by the Council on Social Work Education (CSWE).

Academic Organization and Administration

The chief operating and academic officer of ASU West is the vice president and provost for ASU West. There are four schools and colleges at ASU West administered by deans and a Division of Collaborative Programs. These academic units develop and implement the teaching, research, and service programs of the institution, aided by the ASU West Library and other services.

See "ASU West Administrative and Academic Personnel," page 516 and "Academic Organization," page 6.

Admission and Advising

Nondegree Students. Nondegree students may take courses at ASU West according to the special provisions on page 50 of this catalog.

Degree-Seeking Students. Degree-seeking students must meet the university admissions standards set by the Arizona Board of Regents (ABOR). Any student admitted to ASU may take courses at ASU West. To be admitted to an ASU West degree program, the student must meet ABOR admissions requirements and the specific admission requirements of the ASU West program. A student who is admitted to an ASU West degree program is defined as an ASU West student.

For more information on applying to ASU West degree programs, see the current *ASU West Catalog* or *ASU West Schedule of Classes*. For applications and admission information, call 602/543-8123 or visit or write

ADMISSIONS AND RECORDS OFFICE
 UNIVERSITY CENTER BUILDING 120
 ARIZONA STATE UNIVERSITY WEST
 PO Box 37100
 PHOENIX AZ 85069-7100

Transfer from ASU Main to ASU West

Currently enrolled ASU Main degree-seeking students who want to relocate to an ASU West degree program should contact the Admissions and Records Office at ASU West for the appropriate procedures. Acceptance to

an ASU West degree program requires the student to meet the prerequisites for entry to the student's choice of major as stated in the appropriate catalog. Students should be aware that certain requirements (e.g., the minimum number of upper division semester hours to graduate) differ between ASU West and ASU Main.

Transfer Credit

Upon application, transfer credit is evaluated by the ASU West Admissions and Records Office in consultation with the faculty or academic advisor of the student's choice of major. Selected ASU West courses are applicable to ASU Main degree programs. Certain ASU Main courses are also applicable toward degree programs at

ASU West. In all cases, students should seek advice from academic advisors at the campus of their major before registering for classes on the other campus.

Academic Advising

Students are encouraged to take advantage of the skill and knowledge of the advising professionals available to them in the General Advising Center (GAC) and to seek academic advising early. For more information, call 602/543-8122 or visit or write

GENERAL ADVISING CENTER
UNIVERSITY CENTER BUILDING 220
ARIZONA STATE UNIVERSITY WEST
PO BOX 37100
PHOENIX AZ 85069-7100

Degree Programs

Refer to the "ASU West Degrees, Majors, and Concentrations" and the "ASU West Certificates" tables.

The College of Education offers postbaccalaureate programs for teacher certification in elementary education and secondary education. Students who complete the approved program, including student teaching, are recommended for certification to the Arizona Department of Education.

Courses are offered at ASU West that fulfill requirements for the ASU Main Certificate in Gerontology at the graduate level and a minor in Gerontology at the undergraduate level.

The following academic specializations for the B.A.E. in Secondary Edu

ASU West Degrees, Majors, and Concentrations

Major	Degree	Administered by
Baccalaureate Degrees		
Accountancy	B.S.	School of Management
Administration of Justice	B.S.	College of Human Services
American Studies	B.A.	College of Arts and Sciences
Communication Studies	B.A., B.S.	College of Human Services
Elementary Education	B.A.E.	College of Education
Options: bilingual education, early childhood education, English as a second language, middle school education		
English	B.A.	College of Arts and Sciences
Global Business	B.S.	School of Management
Specializations: financial management, human resources management, international studies, marketing		
History	B.A.	College of Arts and Sciences
Integrative Studies	B.A.	College of Arts and Sciences
Interdisciplinary Arts and Performance	B.A.	College of Arts and Sciences
Life Sciences	B.S.	College of Arts and Sciences
Political Science	B.A., B.S.	College of Arts and Sciences
Psychology	B.A., B.S.	College of Arts and Sciences
Recreation and Tourism	B.S.	College of Human Services
Secondary Education	B.A.E.	College of Education
Academic specializations: biological sciences, English, history, mathematics, social studies		
Option: middle school education		
Social and Behavioral Sciences	B.A., B.S.	College of Arts and Sciences
Social Work	B.S.W.	College of Human Services
Sociology	B.A., B.S.	College of Arts and Sciences
Spanish	B.A.	College of Arts and Sciences
Special Education	B.A.E.	College of Education
Women's Studies	B.A., B.S.	Division of Collaborative Programs
Graduate Degrees		
Business Administration	M.B.A.	School of Management
Educational Administration and Supervision	M.Ed.	College of Education
Elementary Education	M.Ed.	College of Education
Secondary Education	M.Ed.	College of Education

ASU West Certificates

Certificate	Administered by
Accountancy, Postbaccalaureate Certificate in Women's Studies, Certificate in	School of Management Division of Collaborative Programs

cation require course work in the subject matter area not currently available at ASU West (but offered at ASU Main): business education; chemistry; family resources and human development; physical education; physics; political science; and Spanish.

For more information on ASU West degree requirements, see the current *ASU West Catalog*.

ASU Main Programs Hosted at ASU West. Selected courses in Engineering and Applied Sciences are available at

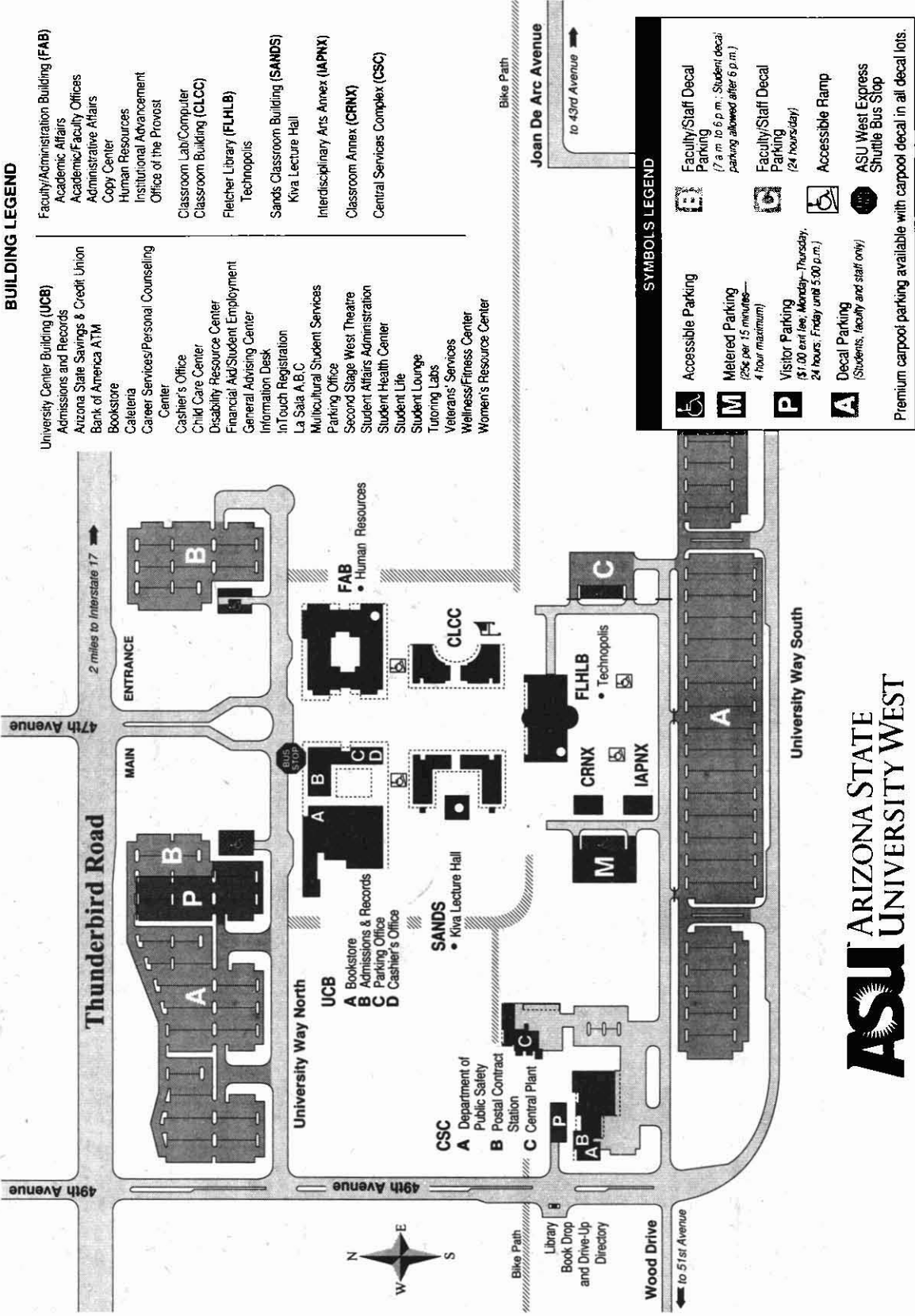
ASU West. For information on degree requirements, refer to the "College of Engineering and Applied Sciences" section in this catalog.

Courses for the Bachelor of Science in Nursing (B.S.N.) degree are offered at ASU West. For specific information on requirements, refer to the "College of Nursing" section in this catalog.

Course Information

For information on ASU West course offerings, see the current *ASU West Schedule of Classes*. For ASU West course descriptions and General Studies courses offered at ASU West, see the current *ASU West Catalog*.





BUILDING LEGEND

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| <ul style="list-style-type: none"> University Center Building (UCB) Admissions and Records Arizona State Savings & Credit Union Bank of America ATM Bookstore Cafeteria Career Services/Personal Counseling Center Cashier's Office Child Care Center Disability Resource Center Financial Aid/Student Employment General Advising Center Information Desk InTouch Registration La Sala A.B.C Multicultural Student Services Parking Office Second Stage West Theatre Student Affairs Administration Student Health Center Student Life Tutoring Labs Veterans' Services Wellness/Fitness Center Women's Resource Center | <ul style="list-style-type: none"> Faculty/Administration Building (FAB) Academic Affairs Academic/Faculty Offices Administrative Affairs Copy Center Human Resources Institutional Advancement Office of the Provost Classroom Lab/Computer Classroom Building (CLCC) Fletcher Library (FLHLB) Technopolis Sands Classroom Building (SANDS) Kiva Lecture Hall Interdisciplinary Arts Annex (IAPNX) Classroom Annex (CRNX) Central Services Complex (CSC) |
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SYMBOLS LEGEND

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| <ul style="list-style-type: none"> Accessible Parking Metered Parking (25¢ per 15 minutes—4 hour maximum) Visitor Parking (\$1.00 entry fee, Monday-Thursday, 24 hours, Friday until 5:00 p.m.) Decal Parking (Students, faculty and staff only) | <ul style="list-style-type: none"> Faculty/Staff Decal Parking (7 a.m. to 6 p.m.; Student decal parking allowed after 6 p.m.) Faculty/Staff Decal Parking (24 hours/day) Accessible Ramp ASU West Express Shuttle Bus Stop |
|--|--|
- Premium carpool parking available with carpool decal in all decal lots.

ASU ARIZONA STATE UNIVERSITY WEST

4701 West Thunderbird Road • Phoenix • (602) 543-5500

ASU West Directory

For the ASU Main "Directory," see pages 522-524.
 For the "ASU East Directory," see page 441.

Academic Units (Administrative and Faculty Offices)

Arts and Sciences, College of	FAB N201	543-6000
American Studies, Department of	FAB N210-1	543-6090
Integrative Studies, Department of ..	FAB N279	543-6003
Interdisciplinary Arts and Performance, Department of	FAB N230F	543-6057
Life Sciences, Department of	CLCC 210B	543-6059
Social and Behavioral Sciences, Department of	FAB N250	543-6058
Cooperative Programs, Division of Adult Development and Aging/ Gerontology	FAB S116-2	543-6400
ASU Main-Hosted Programs		
Engineering	FAB S116-2	543-2327
Nursing	FAB S110-2	543-6605
Research Consulting Center	FAB S131	543-3410
Women's Studies Program	FAB S115A	543-3300
Writing Across the Curriculum Center for	UCB 202	543-6151
Education, College of	FAB S200L 1	543-6300
Human Services, College of	FAB N290	543-6600
Administration of Justice Department of	FAB S270D	543-6607
Communication Studies, Department of	FAB S270-1	543-6606
Recreation and Tourism Management, Department of	FAB S277	543-6617
Social Work, Department of	FAB S270F	543-6614
Library, Fletcher	FLHLB	543-8501
Circulation Hours, Renewal		543-8520
Information Desk		543-8501
Management, School of	FAB N101	543-6200
Accountancy Program	FAB S178	543-6275
Master of Business Administration Program	FAB N151	543-6201
Undergraduate Global Business Program	FAB N106C	543-6200
University Honors College	FAB S124	543-4503

Other

Admissions (Admissions and Records)	UCB 120	543-8123
Advisement (General Advising Center)	UCB 220	543-8122
Associated Students	UCB 221	543-8186 543-8166
Career Services and Personal Counseling Center	UCB 320	543-8124
Disability Resource Center	UCB 130	543-8145
Financial Aid Services	UCB 120	543-8178
Graduate Studies	FAB S301	543-4567
Information Desk	FAB Lobby	543-5500
Multicultural Student Services	UCB 201	543-8148
Parking Administration (Decals, Appeals)	UCB 105	543-7275
Registration Services (Admissions and Records)	UCB 120	543-8123
Residency Classification	UCB 120	543-8123
Student Employment	UCB 120	543-8178
Student Health Services	UCB 170	543-8019
Student Life	UCB 221	543-8187
Student Records (Admissions and Records)	UCB 120	543-8123
Veterans Services	UCB 120	543-8167
Vice President/Provost	FAB 303	543-7000
Vice Provost Academic Affairs	FAB 301	543-4500
Vice Provost Academic Programs	FAB 301	543-4500
Women's Resource Center	UCB 323	543-3421

ASU West Faculty and Academic Professionals

Achilles, Elayne R. (1986), Associate Professor of Education, B M Ed , Temple University, M M , Ed D., Arizona State University

Ackroyd, William S. (1995), Instructor of Social and Behavioral Sciences; B.A . M.A . Portland State University; Ph D., University of Arizona

Alarcón, Justo S. (1968 , Visiting Professor of Spanish, B.A , M.A , Seratíca Spain), M A , Laval University (Canada), Arizona State University, Ph D , University of Arizona

Alemán, Sara (1992 , Assistant Professor of Social Work, B.A , Corpus Christi State University, M S.W Arizona State University; Ph D Brandeis University

Aleshire, Peter (1993 , Lecturer of Professional Writing, B A , M.A., Stanford University

Allison, Jeanette (1994 , Assistant Professor of Early Childhood Education; B.S , Warner Pacific College; M.A , California State University, Fresno, Ph D , University of Illinois

Alvarez, Celia 1992 , Assistant Professor of Women's Studies, B.A , Hampshire College, M S , Ph D , University of Pennsylvania

Andereck, Kathleen L. (1993), Assistant Professor of Recreation and Tourism, B.S , University of Wisconsin, Stevens Point, M.S , Texas A & M University, Ph D , Clemson University

Anders, Gary C. 1989 , Professor of Economics, B.S , West Texas State University, M.A , Ph D , University of Notre Dame

Anderson, Laurel A. 1989), Associate Professor of Marketing, Director, Institute for International Business, B S N , University of Minnesota, Twin Cit es, M N , University of Washington, Ph D , Arizona State University

Atwater, Leanne E. (1993 , Associate Professor of Management, B A , M A . San Diego State University; Ph.D , Claremont Graduate School

Ávalos, Manuel (1990), Assistant Professor of Political Science, B A , M A , University of Arizona; Ph.D , University of New Mexico

Baldwin, Bruce A. (1989), Professor of Accountancy; B.A., M B A , Michigan State University, Ph D , Arizona State University

Bellizzi, Joseph A. 1988), Professor of Marketing; B.S., M.A , Ph D , University of Nebraska, Lincoln

Berezowski, Marc (1995), Visiting Assistant Professor of Dance; B A , Simon Fraser University, M F A , Arizona State University

Berman, Tressa (1995), Assistant Professor of Anthropology; B.A., San Francisco State University, M.A , University of Colorado, Boulder, Ph D., University of California, Los Angeles

Bernat, Frances P. 1993), Associate Professor of Administration of Justice; B.S , State University of New York College at Buffalo; M A , J D , State University of New York at Buffalo

Bettis, Carr 1991 , Assistant Professor of Accountancy, B.B.A., University of Guam, Ph D , Indiana University, Bloomington

Bluhm, Carla (1995), Instructor of Social and Behavioral Sciences, B A., University of Massachusetts, M.A , M.A Ed., M.Phil , Ph D , Columbia University

Bowen, David E. 1991 , Professor of Management, M B.A., Ph D., Michigan State University

Braithwaite, Charles A. 1992 , Assistant Professor of Communication Studies, B A , University of California, Santa Barbara, M A , Ph D , University of Washington

Braithwaite, Dawn O (1992 , Assistant Professor of Communication Studies, B A , California State University, Fullerton, M A., California State University, Long Beach, Ph D , University of Minnesota

- Brawley, E. Allan** 1992 , Professor of Social Work, Certificate of Social Work, University of Strathclyde (Scotland) ; D.S.W., University of Pennsylvania
- Bredbenner, Candice D.** 1990), Assistant Professor of American History, B.A., Russell Sage College, M.A., Ph.D., University of Virginia
- Broadus, Dorothy C.** (1990). Assistant Professor of English, B.A., Eastern Kentucky University, M.Ed., Ph.D., University of Louisville
- Bryn, Sandra L.** 1994 , Assistant Professor of Curriculum and Instruction, B.S., Minot State College, M.A., Ed.D., Northern Arizona University
- Buchanan, Lauranne** 1992 , Assistant Professor of Marketing, B.A., University of Georgia, M.S., University of Illinois; Ph.D., Stanford University
- Buss, Ray R.** (1990), Associate Professor of Educational Psychology; Assistant Dean, College of Education, B.S., M.S., Ph.D., University of Wisconsin, Madison
- Cardelle-Elawar, Maria** 1987 , Associate Professor of Educational Psychology; B.A., Universidad Experimental Libertador (Venezuela), M.S., University of Southern California, Ph.D., Stanford University
- Cárdenas, Lupe** (1986), Associate Professor of Spanish; B.A., M.A., Ph.D., Arizona State University
- Carey, Jane M.** (1988 , Associate Professor of Management Information Systems; B.S., M.B.A., Eastern Illinois University, Ph.D., University of Mississippi
- Carlile, Barbara J.** (1993), Lecturer, Coordinator, Field Placement for Education, B.A., Inmaculate Heart College, M.Ed., Arizona State University, Ed.D., Northern Arizona University
- Cerveris, Michael E.** (1990), Professor of Music, Chair, Department of Interdisciplinary Arts and Performance; B.S., The Juilliard School; M.A., Catholic University; D.M.A., West Virginia University
- Chaffin, Nancy** (1994 , Assistant Librarian; B.A., M.L.S., University of Arizona
- Chang, Stanley Y.** 1992 , Associate Professor of Accountancy, B.B.A., National Taiwan University (Taiwan), M.A., University of Missouri; Ph.D., Texas Tech University
- Chisholm, Inés M.** (1991), Assistant Professor of Bilingual Education; B.A., M.Ed., University of Puerto Rico, Ph.D., University of Florida
- Christie, Alice A.** (1995 , Assistant Professor of Technology and Education; B.A., Denison University, M.Ed., Boston University; Ph.D., Arizona State University
- Cleland, Jo Ann V.** (1991), Assistant Professor of Reading/Language Arts, B.A., St. Olaf College, M.A., Ed.D., Northern Arizona University
- Cobern, William W.** 1989 , Associate Professor of Science Education; B.A., University of California, San Diego; M.A., San Diego State University; Ph.D., University of Colorado
- Coles, Jerilyn W.** (1994 , Assistant Professor of Management, B.S., Brigham Young University, Ph.D., University of Utah
- Collins, Shari C.** 1994 , Assistant Professor of Philosophy, B.A., Colorado State University, M.A., Ph.D., Washington University
- Comprone, Joseph J.** (1992), Professor of English and American Studies; Dean, College of Arts and Sciences, B.A., Springfield College, M.A., Ph.D., University of Massachusetts, Amherst
- Corrigan, John A.** (1992 , Associate Professor of Religion, Chair, Department of American Studies; B.A., University of Dayton, M.A., Miami University; Ph.D., University of Chicago
- Craig, Timothy P.** 1990 , Associate Professor of Ecology, B.S., Kansas State University, M.S., Ph.D., Northern Arizona University
- Cuádras, Gloria H.** (1994), Assistant Professor of American Studies, B.A., University of California, Santa Cruz, M.A., Ph.D., University of California, Berkeley
- Cutrer, Emily F.** (1990), Associate Professor of American Studies, B.A., M.A., Ph.D., University of Texas, Austin
- Cutrer, Thomas W.** 1992 , Associate Professor of American Studies, B.A., M.A., Louisiana State University, Ph.D., University of Texas, Austin
- Delgado, Fernando** 1994 . Assistant Professor of Communication Studies, B.A., San Jose State University, M.A., Ph.D., University of Iowa
- Di Mare, Lesley** (1992 , Associate Professor of Communication Studies, Chair, Department of Communication Studies; B.A., California State University, Chico; M.A., California State University, Hayward, Ph.D., Indiana University, Bloomington
- Dix, Clarence L.** (1979 , Senior Lecturer of Social Work; B.S., Buena Vista College; M.S.W., University of Chicago
- Dixon, Kevin A.** 1995 , Associate Research Scientist of Botany, B.S., Brock University, St. Catharines, Ontario (Canada), M.S., University of Oklahoma, M.S., Ph.D., University of Chicago
- Easter, Susan Beardsley** (1995), Visiting Librarian, B.A., State University of New York, Stony Brook, M.L.I.S., University of North Carolina, Greensboro
- Elenes, C. Alejandra** (1992), Assistant Professor of Women's Studies; Licenciada en Ciencias de la Información, University of Monterrey (Mexico); M.A., Ph.D., University of Wisconsin, Madison
- Erfani, Julie A.** (1989 , Associate Professor of Political Science, B.A., Knox College; M.A., Ph.D., University of Minnesota, Twin Cities
- Farest, Cynthia A.** (1994), Assistant Professor of Reading Education; B.S., University of Texas, Austin, M.Ed., Houston Baptist University; Ph.D., University of Texas, Austin
- Farrelly, Peg** (1991 , Associate Librarian; B.A., Illinois State University, M.L.S., Rutgers, The State University
- Fedock, Patricia** (1993), Assistant Professor of Science Education, B.A., M.A., Ph.D., Arizona State University
- Feezor-Stewart, Barbara** (1995), Visiting Assistant Professor of American Studies, B.A., University of California, Berkeley, M.A., Ph.D., University of California, Los Angeles
- Ferguson, Janice A.** 1995 , Senior Lecturer, Coordinator of Interdisciplinary Internships and Fieldwork, B.A., Michigan State University, M.A., Siena Heights College, Ph.D., Michigan State University
- Finn, Jerry** 1990), Associate Professor of Social Work; Chair, Department of Social Work; Interim Chair, Department of Administration of Justice, B.A., University of California, Los Angeles; M.S.W., University of Hawaii, Honolulu, Ph.D., University of Wisconsin, Madison
- Firat, A. Fuat** (1990 , Professor of Marketing; Licenciado en Economía, Istanbul University, Turkey; Ph.D., Northwestern University

- Forney, Craig A.** (1995), Instructor of American Studies; B.A., Fresno Pacific College, M.A., Ph.D., University of Chicago
- Gallegos, Bee** (1984), Associate Librarian; B.S., University of North Alabama, M.L.S., Vanderbilt University
- Garverick, Michael L.** (1995), Instructor of Accountancy, B.S., Carnegie Mellon University
- Gater, Helen L.** (1970), Associate Librarian, Dean, ASU West Library, B.A., Fort Hays State University; M.A., University of Denver
- Georges-Abeyie, Daniel** (1992), Professor of Administration of Justice, B.A., Hope College; M.A., University of Connecticut, Ph.D., Syracuse University
- Gilkeson, John S.** (1991), Associate Professor of History, A.B., Amherst College, M.A., University of Oklahoma; Ph.D., Brown University
- Gitelson, Richard** (1994), Associate Professor of Recreation and Tourism, Chair, Department of Recreation and Tourism Management; B.A., M.A.T., M.S., University of North Carolina, Chapel Hill, Ph.D., Texas A & M University
- Glomb, Nancy** (1994), Assistant Professor of Special Education, B.A., State University of New York, Binghamton, M.S., Ph.D., Utah State University
- González, Edward L.F.** (1991), Assistant Librarian; B.A., University of San Diego, M.L.S., San Jose State University
- Gonzalez-Jensen, Margaret** (1994), Associate Professor of Bilingual Education, B.A., Our Lady of the Lake University, M.A., Ed.D., Texas A & I University
- Goonis, Patricia M.** (1995), Visiting Librarian, A.B., M.I.L.S., University of Michigan
- Graves, Joseph L.** (1994), Associate Professor of Evolutionary Biology, A.B., Oberlin College; Ph.D., Wayne State University
- Greenhut, John G.** (1989), Associate Professor of Finance and Economics, B.A., Ph.D., Texas A & M University
- Grober, Matthew S.** (1995), Assistant Professor of Endocrinology, B.S., California State, Long Beach; Ph.D., University of California, Los Angeles
- Gruber, Diane** (1995), Assistant to the Director, Center for Writing Across the Curriculum, B.A., Rutgers University; M.A., Purdue University
- Gutiérrez, Sara E.** (1990), Assistant Professor of Psychology, B.S., M.A., Ph.D., Arizona State University
- Haarr, Robin N.** (1994), Assistant Professor of Administration of Justice; B.S., State University of New York, Brockport, M.S., Ph.D., Michigan State University
- Haas, Nancy S.** (1986), Associate Professor of Curriculum and Instruction; B.A., M.Ed., Ph.D., Arizona State University
- Haladyna, Thomas M.** (1986), Professor of Educational Research and Measurement; B.S., Illinois State University; M.A., San Jose State University, Ph.D., Arizona State University
- Hammond, Carol** (1987), Librarian, Head, Research, Development, and External Programs, B.A., Colorado State University, M.S.L.S., University of Illinois, M.A., Gonzaga University
- Harken, Henry R. Jr.** (1986), Associate Librarian, B.A., Hofstra University; M.S.L.S., Long Island University
- Harmon, W. Ken** (1990), Associate Professor of Accountancy, Director, Accountancy Program; B.S., M.Acc., D.B.A., University of Tennessee, Knoxville
- Harris, Kathleen C.** (1990), Professor of Special Education; B.A., M.Ed., Rutgers, The State University; Ph.D., Temple University
- Hattenhauer, Darryl** (1988), Associate Professor of American Literature; B.A., M.A., California State University, Ph.D., University of Minnesota, Twin Cities
- Hay, Victoria** (1993), Lecturer of Arts and Sciences; B.A., University of Arizona, M.A., Ph.D., Arizona State University
- Hayne, Stephen C.** (1994), Assistant Professor of Management Information Systems; B.Com., University of Alberta; Ph.D., University of Arizona
- Hernández, Anthony C.R.** (1992), Assistant Professor of Psychology, B.A., University of California, Riverside; M.A., Ph.D., University of California, Los Angeles
- Hess, Robert K.** (1990), Assistant Professor of Education, B.A., M.Ed., University of Georgia; Ph.D., University of South Carolina
- Howard, Elizabeth C.** (1994), Assistant Professor of Curriculum and Instruction, B.A., University of Texas, Austin; M.A.T., New Mexico State University; Ph.D., University of Texas, Austin
- Hughes, Kimberly** (1994), Assistant Professor of Genetics; B.A., Rice University; M.S., Ph.D., University of Chicago
- Hultsman, John T.** (1990), Associate Professor of Recreation and Tourism, B.G.S., University of Kansas; M.S., University of Missouri; Re.D., Indiana University, Bloomington
- Hultsman, Wendy Z.** (1990), Associate Professor of Recreation and Tourism; B.S.E., State University of New York, Cortland, M.S., Indiana University, Bloomington, Ph.D., Pennsylvania State University
- Hurwitz, Sally C.** (1994), Field Placement Liaison, College of Education, B.A.E., M.Ed., Arizona State University
- Hutt, Roger W.** (1975), Associate Professor of Management; Director, Undergraduate Global Business Programs, School of Management, B.S., M.B.A., Ohio State University, Ph.D., Michigan State University
- Hyman, Batya** (1995), Assistant Professor of Social Work; B.A., Barnard College; M.S.W., Boston University, Ph.D., Brandeis University
- Irwin, Leslie H.** (1995), Lecturer of Professional Education; B.S., University of Wisconsin, Superior, B.Ed., M.Ed., University of Ottawa, Ed.D., Brigham Young University
- Isbell, Dennis** (1991), Assistant Librarian; B.S., M.A., Northern Arizona University; M.L.S., University of Arizona
- Itami, Joanne** (1995), Associate Research Scientist in Life Sciences; B.S., College of Idaho, M.S., Ph.D., Northern Arizona University
- Jacquette, Barbara L.** (1990), Lecturer of Curriculum and Instruction; B.S., Cornell University, M.A., Adelphi University, Ph.D., Arizona State University
- Jarrell, Ronald H.** (1994), Assistant Professor of Early Childhood Education; A.B., Marshall University, J.D., University of Baltimore School of Law; Ed.D., Columbia University, Teachers College
- Jeffers, George J.** (1995), Assistant Professor of Educational Leadership, B.A., St. John's University, M.S., Fordham University, Ed.D., St. John's University
- Johnson, Carolyn R.** (1995), Visiting Librarian; B.A., Montclair State College; M.S.L.S., University of Illinois, M.B.A., University of Minnesota

- Jones, Robert W.** (1994), Associate Professor of Collaborative Programs, Director, Center for Writing Across the Curriculum; B.S., M.A., Middle Tennessee State University, Ph.D., Miami University
- Kammerlocher, Lisa** (1988), Associate Librarian; B.S., M.L.S., University of Oklahoma
- Kelley, Douglas L.** (1994), Assistant Professor of Communication Studies; B.A., Westmont College; M.C., Arizona State University; Ph.D., University of Arizona
- Kelley, Michael F.** (1990), Assistant Professor of Early Childhood Education; B.S., M.S., Arizona State University; Ed.D., University of Georgia
- Kirby, Andrew** (1995), Professor of Social and Behavioral Sciences and Geography; Chair, Department of Social and Behavioral Sciences; B.A., Ph.D., University of Newcastle (England)
- Kline, Elliot** (1993), Visiting Professor of Management; B.A., M.B.A., Ph.D., University of Colorado
- Knopf, Richard C.** (1986), Professor of Recreation and Tourism; Associate Vice Provost for Research, B.S., M.S., Ph.D., University of Michigan
- Koptiuch, Kristin** (1992), Assistant Professor of Anthropology; B.A., State University of New York, Binghamton; M.A., Ph.D., University of Texas, Austin
- Kuhn, Laura D.** (1991), Assistant Professor of Cultural History, B.A., Dominican College; M.A., University of California, Los Angeles
- Lachey, Larry L.** (1995), Instructor of Accountancy; B.S., Butler University
- Lavitt, Melissa R.** (1991), Assistant Professor of Social Work, B.A., University of Chicago, M.S.W., D.S.W., Tulane University
- Lentz, Daniel** (1991), Associate Professor of Music Theory and Composition; B.A., St. Vincent College; M.F.A., Ohio University
- Lerman, Richard** (1995), Associate Professor of Media Arts; B.A., M.F.A., Brandeis University
- Levy, Emanuel** (1990), Professor of Sociology; B.A., M.A., Tel Aviv University (Israel); M.Ph., Ph.D., Columbia University
- Luken, Paul C.** (1993), Lecturer of Sociology, B.A., Quincy College; M.A., Ph.D., Ohio State University
- Makele, Ben-And B.** (1994), Visiting Assistant Professor of American Studies; B.A., Université Nationale du Zaïre; M.A., Ph.D., Arizona State University
- Malekzadeh, Ali R.** (1987), Associate Professor of Management; Associate Vice Provost for Graduate Studies; B.S., M.B.A., University of Denver; Ph.D., University of Utah
- Malian, Ida M.** (1990), Associate Professor of Special Education; Associate Vice Provost for Faculty Development; B.A., Oakland University, M.A., Ph.D., University of Michigan
- McGovern, Thomas V.** (1990), Professor of Psychology; Chair, Department of Integrative Studies; A.B., Fordham University; M.A., Ph.D., Southern Illinois University, Carbondale
- McLean, S. Vianne** (1992), Associate Professor of Early Childhood Education; B.Ed., University of Queensland (Australia); M.Ed., Ph.D., Arizona State University
- McWilliams, Abigail** (1993), Associate Professor of Management; B.S., M.A., Ph.D., Ohio State University
- McWilliams, Thomas P.** (1990), Associate Professor of Production and Quantitative Business Analysis; B.S., Gonzaga University; M.S., Ph.D., Stanford University
- McWilliams, Victoria B.** (1990), Associate Professor of Finance; B.S., B.A., M.B.A., University of Denver; Ph.D., University of Oregon
- Medville, Karen K.** (1995), Assistant Research Scientist in Life Sciences, B.A., Colorado College; M.S., Colorado State University
- Mengesha, Astair Gebre Mariam** (1991), Assistant Professor of Women's Studies; B.A., Purdue University, M.A., Michigan State University; Ph.D., Iowa State University
- Meznar, Martin** (1994), Assistant Professor of International Business; B.A., B.S., Bryan College; M.S., University of Texas, Dallas; Ph.D., University of South Carolina
- Miller, Paul A.** (1988), Associate Professor of Psychology; B.S., St. Vincent College; M.S., North Carolina State University, Raleigh; M.A., Ph.D., University of Texas, Austin
- Mizzi, Philip J.** (1988), Associate Professor of Economics, B.A., Rockford College; Ph.D., Texas A&M University
- Moore, David W.** (1989), Professor of Reading; B.A., M.Ed., University of Arizona; Ph.D., University of Georgia
- Moore, Harold E. Jr.** (1993), Lecturer of Administration of Justice; B.A., J.D., University of Denver
- Moore, Sharon A.** (1989), Associate Professor of Elementary Reading; B.S.Ed., M.S.Ed., Ohio University; Ph.D., University of Georgia
- Moulton, Ian F.** (1995), Assistant Professor of British Literature, B.A., University of Manitoba, Winnipeg (Canada), M.A., University of Western Ontario, Canada, Ph.D., Columbia University
- Mueller, Carol M.** (1988), Associate Professor of Sociology; B.A., University of California, Berkeley; M.A., Rutgers, The State University, Ph.D., Cornell University
- Muller, Barbara J.** (1991), Senior Lecturer of Accountancy, B.S., M.B.A., Arizona State University
- Muñiz, Miriam** (1991), Assistant Professor of Bilingual Education; B.A., M.Ed., Sam Houston State University; Ph.D., Texas A & M University
- Myers, Marilyn** (1987), Associate Librarian; Head, Collection Development and Bibliographic Services, B.A., Kansas State University; M.S., University of Illinois; M.A., Kansas State University
- Nadesan, Majia H.** (1994), Assistant Professor of Communication Studies; B.A., M.A., San Diego State University; Ph.D., Purdue University
- Nadir, P. Aneesah** (1994), Lecturer of Social Work; B.S.W., Adelphi University; M.S.W., Arizona State University
- Nahavandi, Afsaneh** (1987), Associate Professor of Management; Director, Master of Business Administration Program, B.A., University of Denver; M.A., Ph.D., University of Utah
- Náñez, José E. Sr.** (1988), Associate Professor of Psychology; B.A., M.A., California State University; Ph.D., University of Minnesota, Twin Cities
- Nevin, Ann** (1991), Professor of Education in Special Education, B.A., Westminster College, M.Ed., University of Vermont; Ph.D., University of Minnesota, Twin Cities
- Nicolaidis, Becky M.** (1994), Assistant Professor of American Studies, B.A., University of Southern California; M.A., Ph.D., Columbia University in the City of New York

- Nilan, Kathleen M.** (1994), Assistant Professor of European Studies, B.A., Yale University; M.A., Sarah Lawrence College; M.A., M.Phil., Ph.D., Yale University
- Nil, Alexander** (1996), Visiting Assistant Professor of Marketing, Diplom, Ludwig-Maximilian University, Munich (Germany), M.I.M., American Graduate School of International Management; Ph.D., University of Innsbruck (Austria)
- Noronha, Gregory M.** (1995), Assistant Professor of Finance; B.S.E., University of Michigan; M.B.A., Ph.D., Virginia Polytechnic Institute and State University
- Novak, Gayle J.** (1986), Associate Professor of Art and Painting; B.F.A., M.F.A., Arizona State University
- O'Hara, F. Michael III** (1995), Visiting Librarian, B.A., Pomona College; M.A.L.I.S., University of Arizona
- Ohta, Russell J.** (1994), Lecturer of Psychology, B.A., University of Hawaii; M.A., Ph.D., University of Southern California
- Ostroff, Cheri** (1995), Associate Professor of Management; B.A., University of Texas, Austin; M.A., Ph.D., Michigan State University
- Painter, Suzanne R.** (1995), Instructor of Educational Leadership, B.S., Eastern Oregon State College, M.Ed., Ph.D., University of Oregon
- Pambuccian, Victor V.** (1994), Assistant Professor of Mathematics; Baccalaureat, German Lyceum (Romania), M.S., University of Bucharest (Romania); Ph.D., University of Michigan
- Pecuch-Herrero, Marta** (1994), Assistant Professor of Mathematics; M.S., Ph.D., University of Chicago
- Portillo, Gregory R.** (1995), Assistant Professor of Political Science, B.A., California State University, Hayward; M.A., University of California, Los Angeles; Ph.D., University of California, Berkeley
- Poston, Kay M.** (1990), Associate Professor of Accountancy, B.A., M.Acc., D.B.A., University of Tennessee, Knoxville
- Pough, F. Harvey** (1993), Professor of Systems Ecology, Chair, Department of Life Sciences; B.A., Amherst College, M.A., Ph.D., University of California, Los Angeles
- Pulido, Alberto L.** (1993), Assistant Professor of American Studies; B.A., University of California, San Diego; M.A., Ph.D., University of Notre Dame
- Pyne, Stephen J.** (1986), Professor of History; B.A., Stanford University; M.A., Ph.D., University of Texas, Austin
- Ragle, Gael L.** (1988), Lecturer of Educational Psychology; B.S.Ed., M.A.Ed., Northern Arizona University; Ed.D., Arizona State University
- Ramsey, Ramsey Eric** (1994), Assistant Professor of Communication Studies; B.A., Rutgers University, M.A., Ph.D., Purdue University
- Reese, Ruth** (1988), Lecturer of Educational Psychology, B.S., University of Wisconsin, Madison; M.S., Ph.D., University of Wisconsin, Milwaukee
- Ridley, Dale Scott** (1990), Assistant Professor of Educational Psychology, B.S., New Mexico State University; M.A., Ph.D., University of Texas, Austin
- Rillero, Peter** (1994), Assistant Professor of Science Education; B.A., State University of New York, Buffalo, M.A., Columbia University, Ph.D., Ohio State University
- Ryan, Joseph M.** (1995), Professor of Education and Collaborative Programs, Director, Research Consulting Center; B.A., M.Ed., Boston College; Ph.D., University of Chicago
- Sabatini, Arthur J.** (1991), Assistant Professor of Performance Studies; B.A., M.A., Ohio University, Ph.D., New York University
- Saffo, Mary Beth** (1994), Associate Professor of Physiology, B.A., University of California, Santa Cruz, Ph.D., Stanford University
- Scheiner, Samuel M.** (1994), Associate Professor of Biometry, B.A., M.S., Ph.D., University of Chicago
- Schuett, Gordon W.** (1995), Instructor of Life Sciences; B.A., University of Toledo; M.S., Central Michigan University, Ph.D., University of Wyoming
- Searle, Mark S.** (1995), Professor of Recreation and Tourism, Dean, College of Human Services; B.A., University of Winnipeg (Canada); M.S., University of North Dakota, Ph.D., University of Maryland
- Sen, Nilanjan** (1992), Assistant Professor of Finance, B.A., Jadavpur University (India), M.A., Ph.D., Virginia Polytechnic Institute
- Shirreffs, Janet H.** (1977), Professor of Gerontology, B.S., Ithaca College, M.S., Syracuse University, Ph.D., Texas Woman's University
- Shultz, Clifford J.** (1992), Assistant Professor of Marketing; B.A., DePauw University, M.A., Ph.D., Columbia University
- Siegel, Donald** (1994), Associate Professor of Economics; B.A., Columbia College; M.Phil., Ph.D., Columbia University
- Silberman, Jonathan** (1992), Professor of Economics, Dean, School of Management; B.S., Bowling Green State University; M.S., Ph.D., Florida State University
- Smith, Ellen M.** (1995), Assistant Research Scientist in Life Sciences; B.A., Cornell University
- Sowell, Evelyn J.** (1990), Professor of Education; B.A., Howard Payne College; M.Ed., Wichita State University; Ed.D., Northern Illinois University
- Spakes, Patricia A.** (1990), Professor of Women's Studies; Vice Provost, Academic Affairs; B.A., Winthrop College, M.S.W., University of South Carolina; Ph.D., University of Wisconsin, Madison
- Spencer, John S.** (1992), Assistant Librarian; B.A., Wheaton College; M.A., Kent State University; M.L.S., Southern Connecticut State University
- St. Clair, Charles E.** (1991), Fine Arts Specialist; B.F.A. Fairmount Center for Creative and Performing Arts
- Stage, Sarah J.** (1994), Professor of Women's Studies; Chair, Women's Studies; B.A., University of Iowa; M.A., University of Massachusetts; M.Phil., Ph.D., Yale University
- Stewart, Albert A.** (1994), Lecturer of Visual Arts, B.F.A., University of Texas, Austin; M.F.A., University of Washington
- Stryker, Linda L.** (1987), Associate Professor of Astronomy; B.A., Whittier College; B.A., M.S., San Diego State University; M.A., California State University, Los Angeles; Ph.D., Yale University
- Sullivan, Brian K.** (1989), Associate Professor of Evolutionary Biology, B.A., University of California, Berkeley, Ph.D., Arizona State University
- Sutton, Steve G.** (1992), Associate Professor of Accountancy; B.S.A., M.A., Ph.D., University of Missouri, Columbia
- Svoboda, William S.** (1969), Professor of Education, Dean, College of Education, B.S., M.S., Ed.D., University of Kansas

Thomson, Ernie (1992). Assistant Professor of Administration of Justice; B.A., M.A., University of Texas, El Paso; Ph.D., University of California, Santa Barbara

Tompkins, Cynthia M. (1992). Assistant Professor of Women's Studies; Licenciada en Letras Modernas, National University of Cordoba (Argentina); M.A., Ph.D., Pennsylvania State University

Van Fleet, David D. (1989). Professor of Management Strategy Policy; B.S., Ph.D., University of Tennessee, Knoxville

Vaughan, Suzanne (1987). Associate Professor of Sociology; B.A., Roanoke College; M.A., University of New Mexico; Ph.D., Ohio State University

Vicedo, Marga (1992). Assistant Professor of Philosophy; B.A., M.A., Ph.D., University of Valencia (Spain)

Vickrey, Don W. (1992). Professor of Accountancy; Director, Faculty Development, School of Management; B.B.A., University of Houston; M.B.A., Ph.D., University of Texas, Austin

Waldman, David A. (1995). Associate Professor of Management; B.A., University of Kentucky; M.S., Ph.D., Colorado State University

Waldron, Vincent R. (1992) Associate Professor of Communication Studies; B.A., M.A., University of Arizona; Ph.D., Ohio State University

Wertheimer, Eric H. R. (1995). Assistant Professor of American Literature; B.A., Haverford College; M.A., Ph.D., University of Pennsylvania

Weston, Kath (1990). Associate Professor of Anthropology; A.B., A.M., University of Chicago; A.M., Ph.D., Stanford University

Wetzel, Keith (1991). Assistant Professor of Educational Technology; B.A., Greenville College; M.A., Goddard College; M.A., Ph.D., University of Oregon

Wilson, Daniel (1986). Senior Lecturer of Engineering; B.S., Drexel University; M.S.E., Ph.D., Arizona State University

Wilson, Denward J. (1989). Lecturer of Philosophy; B.A., Arizona State University

Wosinska, Wilhelmina (1994). Lecturer of Social Psychology; B.A., University of Warsaw (Poland); M.A., Ph.D., Jagiellonian University in Krakow (Poland)

Wu, Jianguo (1995). Assistant Professor of Ecosystem Ecology; B.S., University of Inner Mongolia; M.S., Ph.D., Miami University

Youngdahl, William E. (1992). Assistant Professor of Management Information Systems; B.S., California State Polytechnic University, Pomona; M.S., Ph.D., University of Southern California

Zambo, Ronald W. (1991). Assistant Professor of Mathematics Education; B.S., Indiana University, Bloomington; M.A., Ph.D., University of South Florida



ASU West Administrative and Academic Personnel

Academic Administration

Vice President and Provost Ben R. Forsyth
 Vice Provost for Academic Programs David E. Schwalm
 Vice Provost for Academic Affairs Patricia A. Spakes
 Vice Provost for Planning and Budget Barry R. Bruns
 Vice Provost for Administrative
 Affairs Gebeyehu Ejigu
 Vice Provost for Institutional
 Advancement Judy C. Knudson
 Associate Vice Provost, Extended
 Instruction Christine C. Hall
 Associate Vice Provost, Faculty
 Development Ida M. Malian
 Associate Vice Provost, Graduate
 Studies Ali R. Malekzadeh
 Associate Vice Provost, Research Richard C. Knopf
 Associate Vice Provost, Student
 Affairs Sylvia A. Silva
 Dean, ASU West Library Helen L. Gater

University Offices

Vice President for Research and
 Strategic Initiatives Robert Barnhill
 Dean, Graduate College Bianca L. Bernstein
 Dean, College of Extended
 Education Bette F. DeGraw
 Dean, University Honors College Ted Humphrey

College of Arts and Sciences

Dean, College of Arts
 and Sciences Joseph J. Comprone
 Chair, American Studies John A. Corrigan
 Chair, Integrative Studies Thomas V. McGovern
 Chair, Interdisciplinary Arts and
 Performance Michael E. Cerveris
 Chair, Life Sciences Harvey Pough
 Chair, Social and Behavior
 Sciences Andrew Kirby

College of Education

Dean, College of Education William S. Svoboda
 Assistant Dean, College of
 Education Ray R. Buss

College of Human Services

Dean, College of Human Services Mark S. Searle
 Interim Chair, Administration of
 Justice Jerry Finn
 Chair, Communication Studies Lesley Di Mare
 Chair, Recreation and Tourism
 Management Richard Gitelson
 Chair, Social Work Jerry Finn

Division of Collaborative Programs

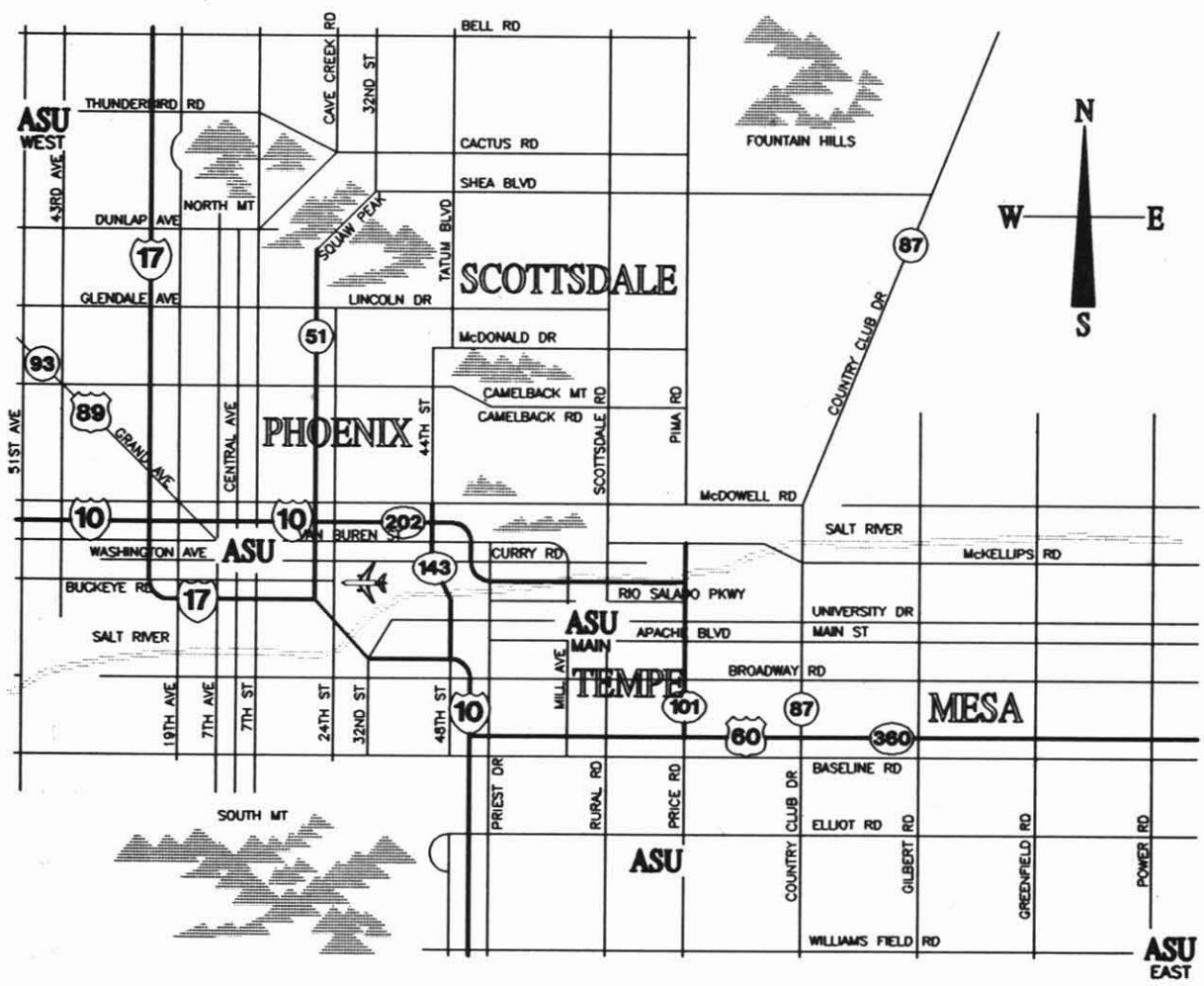
Interim Director, Division of
 Collaborative Programs David E. Schwalm
 Director, Adult Development and
 Aging/Gerontology Program
 Director, Research Consulting
 Center Joseph M. Ryan
 Chair, Women's Studies Sarah J. Stage
 Director, Writing Across the
 Curriculum Program Robert W. Jones
 ASU Main Programs Hosted at ASU West
 Coordinator, Engineering Robert W. Hinks
 Liaison, Nursing Lasca Beck

School of Management

Dean, School of Management Jonathan Silberman
 Director, Accountancy Program W. Ken Harmon
 Director, Faculty Development Don Vickrey
 Director, Master of Business
 Administration Program Afsaneh Nahavandi
 Director, Undergraduate Global
 Business Programs Roger W. Hutt



ASU VICINITY MAP



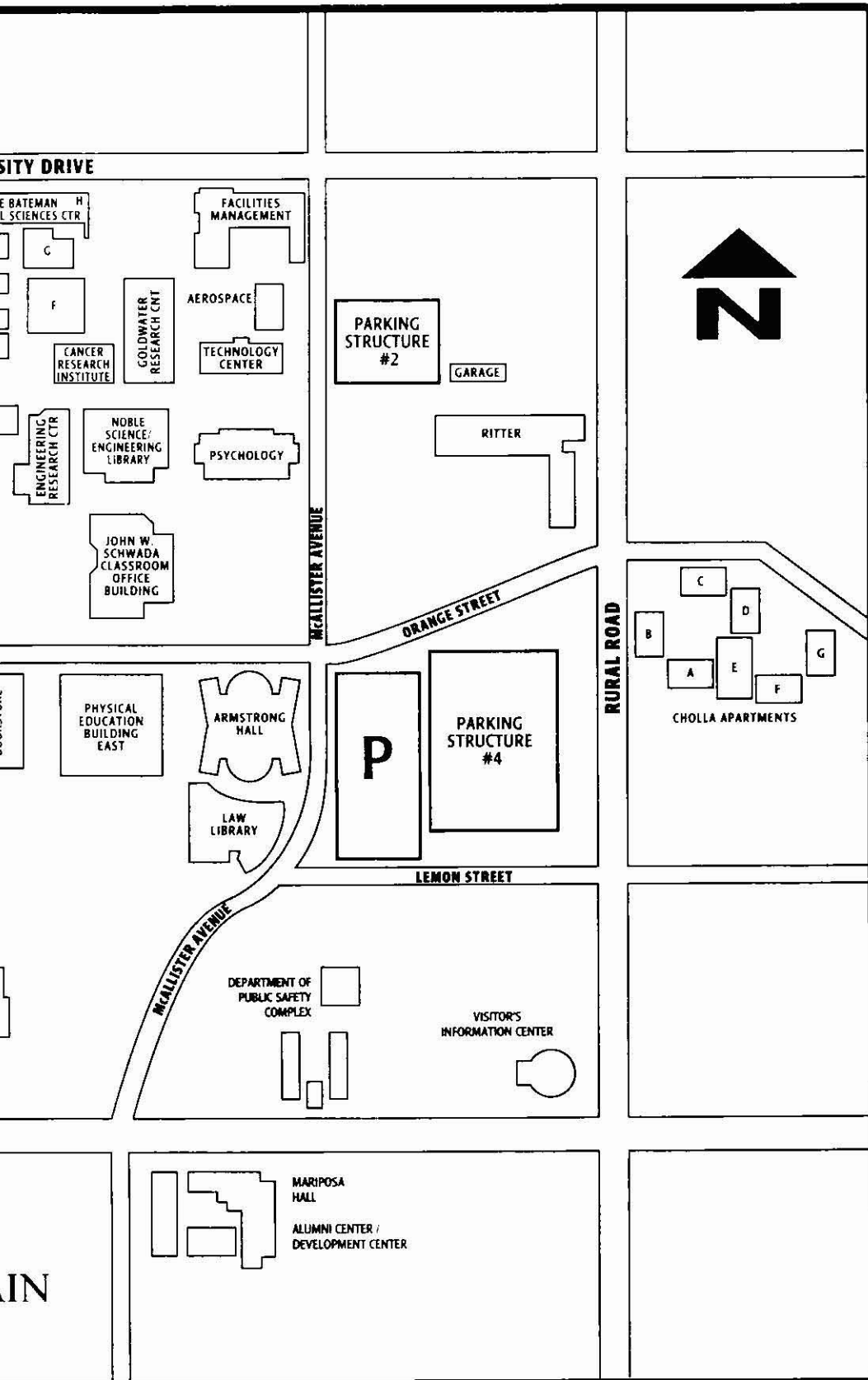
- ASU - ASU MAIN CAMPUS - Downtown Tempe
MAIN
- ASU - ASU WEST - 43rd. Avenue & Thunderbird Road
WEST
- ASU - ASU EAST - Power Road & Williams Field Road
EAST
- ASU - ASU RESEARCH PARK - Price Road & Elliot Road
- ASU - ASU DOWNTOWN CENTER - Monroe Street & Fifth Street



P = Public Parking

ASU ARIZONA STATE UNIVERSITY

MAP BY AL CAMASTO, ASU PDC





ASU MAIL ROOM
ASU STORES

Building Abbreviations

ADM A	Administration A Wing	LAWLB	John J. Ross William C. Blakley Law Library
ADM B	Administration B Wing	LIB	Charles T. Hayden Library
AED	College of Architecture and Environmental Design/North	LL (Wings A–C).....	G. Homer Durham Language and Literature Building
AG	Agriculture Building	LS (Wings A–C).....	Life Sciences Center
ANTH (Wings A–C)	Anthropology Building	LSE	Life Sciences E Wing
AQUAT (Wings A and B).....	Mona Plummer Aquatics Center	LYC	Lyceum Theatre
ARCH	College of Architecture and Environmental Design/South	MAIN	Old Main
ARCV	University Archives	MCENT	A.J. Matthews Center
ART	Art Building	MCL	James H. McClintock Hall
ARWH	Art Warehouse	MHALL	Carrie Matthews Hall
ASUDC	Downtown Center	MOEUR	B.B. Moeur Administration
BA	Business Administration Building	MTCHL	Mitchell School (Tempe)
BAC	Business Administration C-Wing	MU	Memorial Union
BKSTR	ASU Bookstore	MUR	John Murdock Lecture Hall
CERA (Wings A and B)	Ceramics Annex	MUSIC	Music Building
CFS	Center for Family Studies	NEEB	L.S. Neeb Hall
CHAPL	Danforth Chapel	NOBLE	Daniel E. Noble Science and Engineering Library
CLCC	Classroom Laboratory/Computer Building*	NUR	Nursing Building
CMPIN	Campus Inn	PBS	Packard Baseball Stadium
CMSC	Community Services Center Building	PEBE	Physical Education Building East
COB (Wings A and B)	John W. Schwada Classroom Office Building	PEBW	Physical Education Building West
CP	Central Plant	PPS	Facilities Management
CPCOM	Computing Commons Building	PS (Wings A H).....	George M. Bateman Physical Sciences Center
CRNSN	Cornerstone Mall	PSY	Psychology Building
CRNX	Classroom Annex*	RITT (Wings A and B).....	Ritter Building
CTRSV	Central Services Complex*	SANDS	Sands Classroom Building*
EC (Wings A–G)	Engineering Center	SDF	Solar Demonstration Facility
ECANX	Engineering Center Annex	SHS (Wings A and B).....	Student Health Service
ED	Hiram B. Farmer Education Building	SRC	Student Recreation Complex
EDB	Ira D. Payne Education Hall	SS	Social Sciences Building
EDC	G.D. McGrath Education Lecture Hall	SSV	Student Services Building
ENGRC	Engineering Research Center	STAD	Sun Devil Stadium
FAB	Faculty and Administration Building*	STAUF (Wings A and B).....	Charles Stauffer Communication Arts Building
FAC	Nelson Fine Arts Center	TC	Technology Center
FIELD	University Field Lab	TCB	Aeronautics Building
FLHLB	Fletcher Library*	TCC	Technology Center Annex
FSL	Forestry Services Lab	TCM	Technology Modularity
GGMA	Grady Gammage Memorial Auditorium	THWH	Theatre Warehouse
GHALL	Dixie Gammage Hall	TOWER (Wings A and B).....	University Tower Center
GWC	Barry M. Goldwater Center for Science and Engineering Research	TRACK	Joe Selleh Track
HEC (Wings A and B).....	Cowden Family Resources Building	UAC	University Activity Center
IAPNX	Interdisciplinary Arts and Performance Annex*	UCB	University Center Building*
ICA	Intercollegiate Athletics	UCLUB	University Club
IRISH	Frederick M. Irish Hall	VISIT	ASU Visitor's Information Center
LAW	John S. Armstrong Hall	WH	Warehouse
		WHALL	West Hall
		WILSN	George W. Wilson Hall
		WTC	Whiteman Tennis Center

* Located at ASU West.

Directory

For the "ASU West Directory," see page 509.
For the "ASU East Directory," see page 441.

Admissions

Graduate	WILSN 101	965-6113
Law	LAW 101	965-1474
Readmissions (Undergraduate).....	SSV B114	965-7440
Undergraduate	SSV C111	965-7788

Advising (see Undergraduate Academic Services)

ASU East (see page 441)

ASU/Phoenix Educational

Opportunity Center	256-2124
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ASU West (see page 509)

Architecture and Environmental

Design, College of	ARCH 134	965-3216
Architecture, School of	AED 162	965-3536
Design, School of	AED 154	965-4135
Planning and Landscape Architecture School of	AED 158	965-7167

Bookstore, ASU

BKSTR 965-7928

Business, College of

Accountancy School of	BA 223	965-3631
Business Administration, Department of	BA 318	965-3231
Decision and Information Systems, Department of	BA 267O	965-4373
Economics Department of	BAC 659	965-3531
Finance, Department of	BAC 519	965-3131
Health Administration and Policy, School of	BAC 554	965-7778
Management, Department of	BA 323	965-3431
Marketing, Department of	BAC 462	965-3621

Campus Dining Services

MU138 965-3464

Career Services

SSV C359 965-2350

Child and Family Services

MU 14C 965-9515

Computer Accounts Office

CPCOM 105 965-1211

Computer Assistance Center

CPCOM 202 965-5939

Computing Consulting,

Student Office	CPCOM 113	965-6388
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Disability Resources

for Students	MCENT First Floor
Voice/TTY	965-1234

Drop/add and withdrawal

information	SSV B114	965-3124
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Education, College of

Curriculum and Instruction, Division of	ED 409	965-1644
Educational Leadership and Policy Studies, Division of	ED 108	965-6248
Psychology in Education, Division of	EDB 301	965-3384

Educational Development

SSV A 272 965-7220

Engineering and Applied

Sciences, College of	ECG 100	965-3421
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Agriculture and Resource Management School of	ASU East	965-3585	Speech and Hearing Science (Ph.D.)	CMSC 146	965-9397
Chemical, Bio and Materials Engineering Department of	ECG 202	965-3313	Statistics (M.S.)	BAC 570	965-5473
Civil and Environmental Engineering, Department of	ECG 252	965-3589	International Programs	MOEUR 124	965-5965
Computer Science and Engineering, Department of	GWC 206	965-3190	International Student Programs	SSV B225	965-7451
Construction, De E Webb School of	COB 268	965-3615	International Undergraduate Admissions	SSV C111	965-2688
Electrical Engineering, Department of	ERC 552	965-3424	Law, College of	LAW 201	965-6181
Engineering, School of	ECG 104	965-1726	TTY		965-5859
Industrial and Management Systems Engineering, Department of	GWC 502	965-3185	Liberal Arts and Sciences, College of	SS 111	965-6506
Mechanical and Aerospace Engineering, Department of	ECG 346	965-3291	Aerospace Studies Department of	MAIN 340	965-3181
Technology, School of	ASU East	965-3874	Anthropology, Department of	ANTH A124	965-6213
Equal Opportunity/ Affirmative Action	ADM 113B	965-5057	Botany, Department of	LS E218	965-3414
TDD		965-0471	Chemistry and Biochemistry, Department of	PS D102	965-3461
Extended Education, College of	ASUDC C319	965-9696	English, Department of	LL B504	965-3168
American Language and Culture Program	IR SH 2D	965-2376	Exercise Science and Physical Education Department of	PEBW M212	965-3875
Arizona Prevention Resource Center	ASUDC B2	727 2772	Family Resources and Human Resources Department of	HEC 106	965-6978
ASU Downtown Center	ASUDC	965-3046	Geography, Department of	COB 338	965-7533
ASU East Valley Center	EVC, BLDG 571	965-9781	Geology, Department of	PS F686	965-5081
ASU Sun Cities Center		965-5600	History, Department of	SS 204	965-5778
Communications and Marketing	ASUDC C319	965-9696	Interdisciplinary Humanities Program	LL C352	965-6747
Correspondence Study	RITT B132	965-9797	Languages and Literatures, Department of	LL B404	965-6281
	or 1-800-533-4806		Mathematics, Department of	PS A216	965-7195
Distance Learning Technology	RITT A129	965-6738	Microbiology, Department of	LS E210	965-1457
Instructional Programs	RITT B132	965-9797	Military Science, Department of	MAIN 240	965-3318
Operations and Finance	ASUDC C319	965-9696	Philosophy, Department of	PS A524	965-3394
Professional and Continuing Education	ASUDC	965-3046	Physics and Astronomy, Department of	PS F470	965-3561
Fine Arts, College of	GHALL 132	965-6536	Potential Science, Department of	SS 410	965-6551
Art School of	ART 102	965-3468	Psychology, Department of	PSY 237	965-3326
Dance, Department of	PEBE 107B	965-5029	Religious Studies, Department of	EC A377	965-7145
Music, School of	MUSIC 183	965-3371	Sociology, Department of	SS 321	965-3546
Theatre, Department of	GHALL 232	965-5359	Speech and Hearing Science, Department of	LL A145	965-2373
Graduate College	WILSN Lobby	965-3521	Women's Studies Program	SS 103	965-2358
Admissions	W LSN 101	965-6113	Zoology, Department of	LS C226	965-3571
Advising Office	W LSN Lobby	965-3521	Memorial Union		
Graduation Section			Activities Board	MU third level	965-6822
Commencement Office	ADM B109	965-6611	Information Desk	MU first level	965-5728
Graduate Division	SSV B113	965-6980	Lost and Found	MU first level	965-5728
Undergraduate Division	SSV B113	965-3256	Nursing, College of	NUR 322	965-3244
Greek Life	SSV A148	965-3806	Continuing and Extended Education	NUR 470	965-7431
Interdisciplinary Programs			Student Service Office	NUR 108	965-2987
Creative Writing (M.F.A.)	LL C346	965-7475	Off-Campus Student Employment	SSV C222	965-6318
Curriculum and Instruction (Ph.D.)	ED 305	965-1644	On-Campus Student Employment	SSV C222	965-5186
Exercise Science (Ph.D.)	PEBW M201	965-7664	Operator, university		965-9011
Gerontology (Certificate)	WHALL 116	965-3225			
Justice Studies (Ph.D.)	WILSN 316	965-7682			
Public Administration (D.P.A.)	WILSN 208	965-3978			
Science and Engineering of Materials (Ph.D.)	PS B135	965-7498			

Orientation, New Student	SSV A279	965-7788	Student Publications	MCENT 15	965-7572
Parents Association	SSV A278	965-7788	<i>State Press Information</i>		965-7572
Public Programs,			<i>State Press Newsroom</i>		965-2292
College of	WILSN 234	965-1034	Student Recreation Complex		
Communication, Department of	STAUF A412	965-5095	and Recreational Sports	SRC 220	965-8900
Journalism and					
Telecommunication, Walter			Summer Sessions, Office of	ADM B109	965-6611
Cronkite School of	STAUF A231	965-5011	Transcripts (outgoing)	SSV B113	965-3171
Justice Studies, School of	WILSN 331	965-7682	Undergraduate Academic		
Public Affairs, School of	WILSN 208	965-3926	Services, Division of	Undergraduate	
Recreation Management and				Academic	
Tourism, Department of	GHALL 204	965-7291		Services	
Readmissions			Bachelor of Interdisciplinary		
(Undergraduate)	SSV B114	965-7440	Studies	100	965-3097
Registrar	SSV B114		Campus Match	200	965-3097
InTouch		350-1500	Degree Audit	100	965-3097
TDD		965-3236	General Studies	100	965-3097
Voice		965-3124	Service Learning	100	965-3097
Residency Classification	SSV B115	965-7712	University 100/194	200	965-3097
Residential Life	SSV A131	965-3515	University Academic Advising		
Social Work, School of	WHALL 133	965-3304	Center	100	965-4464
Student Financial Assistance	SSV C219	965-3355	Writing across the Curriculum	100	965-3097
Student Health	SHS	965-3346	Writing Centers	200	965-3097
Fax		965-2269	University Honors College	MCL 112	965-2359
Measles verification information		965-1358	University Libraries	LIB	
Student ID	Undergraduate		Circulation		965-3605
	Academic		Hours		965-3415
	Services 140	965-3124	Information		965-6164
Student Organization			Renewal by telephone		965-2595
Resource Center	MU N340	965-2249	University Testing Services	EDB 302	965-7146
			Upward Bound	SSV A 279	965-6487
			Veterans Services Section	SSV B117	965-7723
			Veterans Upward Bound	IRISH 7	965-3944



Frequently Asked Questions (FAQ)

How do I apply to ASU Main?

Complete an application and have transcripts and test scores, if needed, sent directly to Undergraduate Admissions. See page 47.

How do I apply to ASU West?

Contact the Admissions and Records Office at ASU West. See page 505. For more information, call 602/543 8123.

What if I am a transfer student?

Upon admission, note the number of semester hours on your Certificate of Admission. When registering, consult your department advisor to determine how transfer credits fit into the curriculum (see “Academic Advising,” page 57). Have you met the First-Year Composition requirement (see page 66)? If you have completed 87 or more semester hours, file a program of study (see page 68).

What if I have a disability or am a veteran?

Students with disabilities, refer to Disability Resources for Students, pages 32–33. Veteran students using GI benefits, see page 31.

How do I get financial aid?

In addition to applying for admission, complete the FAFSA before March 1. If you meet financial aid program criteria, you receive an award notification after April 15. See pages 31, 41–43.

How do I find a place to live and purchase a meal plan?

Apply early (four to six months in advance of the semester). See pages 31–32 for information on student housing. Meal plans may be purchased in advance, or upon arrival on campus. For more information, call Campus Dining Services at 602/965 3464.

What about orientation?

Attend orientation, where questions regarding advisement, class registration, student IDs, on campus housing, and other pertinent topics are answered. See page 48.

How do I get an ID, and what about parking?

See page 58 about obtaining an ASU student ID card. If you are planning to park on campus, purchase a parking decal. See page 38.

What about placement examinations and university testing requirements?

See pages 55–56.

Before I register for classes, how do I get an advisor?

Call the college of your major to schedule an appointment with an academic advisor. See page 57.

When and how do I register?

Refer to the *Schedule of Classes* for registration procedures and dates. Remember that you must first provide proof of measles immunization to Student Health. See pages 47–48.

Once I am registered and ready to go, how can I ensure my success at ASU?

Consider enrolling in UNI 100 Academic Success at the University. See page 24.

Now that the business is over, what’s left to do?

Become involved in the university by getting to know professors, joining student organizations, and taking advantage of the myriad of cultural, recreational, and social opportunities. For more information on campus life, call Student Life at 602/965 6547 or ASASU at 602/965 3161. Investigate the challenges and advantages of the University Honors College. See pages 99–101.

Academic Definitions

Academic Renewal. An undergraduate who has been readmitted to the university after an absence of at least five years and who has satisfactorily completed a minimum of 12 approved, additional semester hours in residence at ASU within three semesters after re entry, may, upon petition to the dean of the college, have the former record treated in the same manner as transfer credits. See page 58.

Advanced Placement. Students who have taken an advanced placement course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an Advanced Placement Examination of CEEB may receive university credit. See pages 53 and 71

ALCP. The American Language and Culture Program (ALCP) features an intensive, noncredit course of study designed for adult international students who desire to become proficient in English as a second language. See pages 52 and 400.

ASU East. ASU East is located at the former Williams Air Force Base. See pages 420–441

ASU Main. ASU Main is the principal campus of ASU, located in Tempe. See page 20.

ASU West. ASU West is the Phoenix branch campus of ASU, established in 1984 by the Arizona Legislature to serve the educational needs of residents in western Maricopa County. See pages 505–516

Audit Enrollment. A student who audits a course attends regularly scheduled class sessions but earns no credit. See page 60.

Buckley Amendment. See *Family Educational Rights and Privacy Act* in this section.

CLEP. As part of the College Level Examination Program (CLEP), students who have taken a College Level Examination of the College Entrance Examination Board may receive university credit. See pages 53, 54, 71

Comprehensive Exam. A comprehensive examination is intended to permit a student to establish academic credit in a field in which the student has gained experience or competence equivalent to an established university course. See pages 54–55.

Concentration. A concentration is a selection of courses within a major or among one or more majors.

Cooperative Education. Cooperative Education is any educational program that requires alternating classroom and work experience in government or industry. The work experience exists for its educational value. See page 59.

Corequisite. A requirement to be met, such as taking a certain course, while taking a course is a corequisite. See *prerequisite* in this section.

Course Prefix. The course prefix is the three letter designation assigned by each instruction unit. The “Course Prefix Index,” on pages 558–559, provides a comprehensive list. Also see *cross listing* in this section.

Credit Enrollment. One semester hour represents a minimum of one 50 minute class exercise per week per semester. A minimum of 120 semester hours is required for graduation with a baccalaureate degree. To obtain credit, a student must be properly registered and pay fees for the course. See page 60.

Cross-listing. One course may have more than one course prefix and may be offered by more than one department. Some instruction units require students to enroll in a course under a certain prefix in order to receive credit properly. Course descriptions in the *General Catalog* indicate courses that are cross listed.

Cum Laude. An undergraduate student with a minimum of 60 semester hours of course work at ASU and a cumulative GPA of 3.40–3.59 graduates *cum laude*. See page 70. Also see *magna cum laude* and *summa cum laude*.

Drop/Add. Drop or add is a process in which a student who has registered for courses for a semester or summer session may drop or add courses through the first week of classes in a semester or the first two days of a summer session. See page 61

Emphasis. An area of emphasis is a selection of courses within a major or among one or more majors.

Family Educational Rights and Privacy Act. The Family Educational Rights and Privacy Act of 1974, or Buckley Amendment, sets forth the requirements governing the protection of the privacy of the educational records of students who are or have been in attendance at Arizona State University. See page 64.

Freshman. A student who has earned 24 or fewer hours is a freshman.

General Studies Requirement. The General Studies program consists of five core areas and three awareness areas. The core areas are literacy and critical inquiry, numeracy, humanities and fine arts, social and behavioral sciences, and natural sciences. The awareness areas are cultural diversity in the United States, global awareness, and historical awareness. All undergraduate students must successfully complete a minimum of 35 semester hours of approved General Studies courses. See pages 71–74, 74–94.

GPA. The ASU grade point average (GPA) is obtained by dividing the total number of ASU grade points earned by the number of ASU semester hours graded. Grade point averages are rounded to the nearest hundredth of a grade point. See page 61.

Grade Points. For the purpose of computing the GPA, grade points are assigned to each of the grades for each semester hour as follows: “A,” four points; “B,” three points; “C,” two points; “D,” one point; and “E,” zero points.

Graduate Catalog. The *Graduate Catalog* describes the procedures and requirements for enrollment in the Graduate College. See pages 404–413 of the *General Catalog* for information on the Graduate College. See pages 413–416 specifically for a complete list of graduate degrees, majors, and concentrations.

Graduate-Level Courses. Courses numbered 500–799 are designed for graduate students. However, an upper-division undergraduate student may enroll in graduate courses with the approval of his or her advisor, the course instructor, the department chair, and the dean of the college or school in which the course is offered. See page 44.

Incomplete. A mark of “I” (incomplete) is given by the instructor only when a student who is otherwise doing acceptable work is unable to complete a course because of illness or other conditions beyond the student’s control. See page 60.

Independent Study. The course number 499 has been reserved for independent study courses in each of the instructional departments or divisions of the colleges at the undergraduate level. Independent study courses are honor courses and may be taken only by outstanding senior students who have completed at least one semester in residence. See page 44.

International Baccalaureate. Students who have taken a higher level examination through the International Baccalaureate program may receive university credit. See pages 54 and 56.

Junior. A student who has earned 56–86 hours is a junior.

Lower-Division Courses. Courses numbered 100–299 are designed primarily for freshmen and sophomores. See page 44.

Magna Cum Laude. A student with a minimum of 60 semester hours of course work at ASU and a cumulative GPA of 3.60–3.79 graduates *magna cum laude*. See page 70. Also see *cum laude* and *summa cum laude* in this section.

Major. A major is a specialized group of courses contained within the program of study. Refer to college and school sections for specific descriptions and requirements.

Minor. A minor is a specialized group of courses contained within the program of study available from some instruction units. Refer to page 96 and to college and school sections for specific descriptions and requirements.

Omnibus Course. An omnibus course is offered on a one-time or tutorial basis when the course content is new or periodically changes. See pages 44–45.

Option. An option is a selection of courses within a major or among one or more majors.

Pass/Fail Enrollment. A mark of “P” (pass) or “E” (fail) may be assigned for this grading option. This grading method may be used at the option of individual colleges and schools within the university. See page 60.

Placement Examination. A proficiency examination is given to: (a) waive a course requirement; (b) validate certain transfer credits in professional programs; or (c) determine a student’s ability in a field where competence is an important consideration. See page 56.

Prerequisite. A requirement to be met, such as completing a certain course, *before* registering for a course is a prerequisite. See *corequisite* in this section.

Probation. A student’s college assumes responsibility for enforcing academic standards and may place any student on probation who has failed to maintain good standing. A stu-

dent on academic probation is required to observe any rules or limitations the college may impose as a condition for retention. See page 64.

Program of Study. A student must file an Undergraduate Program of Study for graduation within the semester he or she earns his or her 87th hour. See page 68. The complete array of courses included in the study leading to a degree make up a student’s program of study.

Registration Fee. All students who register for classes at ASU are assessed this charge. See *tuition* in this section.

Restricted Complete Withdrawal. From the fifth week to the transaction deadline for a semester and from the seventh day to the transaction deadline for a summer session, students may withdraw from all courses but will receive a mark of “W” only from courses in which the instructor certifies that they are passing at the time of the withdrawal. See page 61.

Restricted Course Withdrawal. From the fifth week to the end of the 10th week of a semester and from the seventh day to the end of the third week of a summer session, students may withdraw with a mark of “W” only from courses in which the instructor certifies that they are passing at the time of withdrawal. See page 61.

Senior. A student who has earned 87 or more hours of credit is a senior.

Sophomore. A student who has earned 25–55 hours of credit is a sophomore.

Special Topics. Courses numbered 294, 394, and 494 cover topics of immediate or special interest to a faculty member and students. See page 44.

Summa Cum Laude. A student with a minimum of 60 semester hours of course work at ASU and a cumulative GPA of 3.80–4.00 graduates *summa cum laude*. See page 70. Also see *cum laude* and *magna cum laude* in this section.

TOEFL. The Test of English as a Foreign Language (TOEFL) is taken by students whose native language is not English. See page 52. See also *ALCP* in this section.

Transcript. The transcript has information about classes taken and grades earned. The Office of the Registrar releases official transcripts only upon written request of the student for a fee of \$1.00 per copy for enrolled students or \$5.00 per copy for nonenrolled students. Additional copies ordered at the same time are \$1.00 each. Unofficial transcripts may be obtained free of charge in person at the Office of the Registrar, any registrar site, or by mail if a signed release is enclosed. See pages 62–63. Also see *Family Educational Rights and Privacy Act* in this section.

Tuition. This term refers to the additional charges assessed only to nonresidents, as established in Arizona Board of Regents’ Policy 4–102. See *registration fee* in this section.

Unrestricted Withdrawal. During the first four weeks of a semester or the first six days of a summer session, a student may withdraw from any course with a mark of “W.” See page 61.

Upper-Division Courses. Courses numbered 300–499 are designed primarily for juniors, seniors, and other advanced students. See page 44.

Special Class Fees and Deposits (continued from page 43)

Special Fees (continued)

ART 401	Non Silver Photography	\$30 00	ART 598	ST: Advanced Screenprinting	30.00
ART 403	Senior Projects	25 00	ART 598	ST Art Anatomy	20.00
ART 404	Portraiture Photography	25 00	ART 598	ST Ceramic Clay	25.00
ART 405	Advanced Color Photography	35.00	ART 598	ST Ceramic Glaze	25 00
ART 407	View Camera	35 00	ART 598	ST: Experimental Paper	25.00
ART 414	Advanced Life Drawing (ASU Main only)	25.00	ART 598	ST Fibers and Surface	25 00
ART 414	Advanced Life Drawing (ASU West only)	20.00	ART 598	ST Figure Painting (ASU Main only)	25.00
ART 415	Art Anatomy	20.00	ART 598	ST Figure Painting (ASU West only)	20.00
ART 425	Advanced Figure Painting (ASU Main only)	25.00	ART 598	ST Forging Techniques	15.00
ART 425	Advanced Figure Painting (ASU West only)	20.00	ART 598	ST: Foundry	40.00
ART 427	Advanced Watercolor	40.00	ART 598	ST: Jewelry Metalworking	15 00
ART 431	Special Problems in Sculpture	20 00	ART 598	ST: Life Drawing	25.00
ART 437	Dimensional Animation	20 00	ART 598	ST: Lithography	40 00
ART 444	Computer Art I	40 00	ART 598	ST: Mold Making and Casting	15.00
ART 448	Computer Animation	20.00	ART 598	ST: Neon Workshop	40.00
ART 451	Intaglio II	40 00	ART 598	ST: Non-Silver Photography	30.00
ART 452	Advanced Lithography	40 00	ART 598	ST Portraiture Photography	25.00
ART 454	Advanced Screenprinting	30.00	ART 598	ST: Print Textiles	25 00
ART 455	Advanced Photo Processes for Printmaking	25.00	ART 598	ST: Printed Textiles	30.00
ART 460	Ceramic Clay	25.00	ART 598	ST Relief Printmaking	35.00
ART 463	Ceramic Glaze	25 00	ART 598	ST: Screenprinting I	30.00
ART 466	Special Problems in Ceramics	25.00	ART 598	ST Special Problems in Ceramics	25 00
ART 472	Advanced Jewelry	15 00	ART 598	ST: View Camera	35.00
ART 473	Advanced Metalworking	15 00	ART 598	ST Watercolor	40.00
ART 474	Advanced Wood	25 00	ART 598	ST: Wood	25.00
ART 476	Advanced Fibers	25.00	ART 598	ST: Wood Carving	30.00
ART 477	Printed Textiles	30 00	ART 621	SP: Ceramics	25.00
ART 494	ST Advanced Sculpture	20.00	ART 621	SP: Jewelry Metalworking	15 00
ART 494	ST: Color for Jewelry	15.00	ART 621	SP: Printmaking	25.00
ART 494	ST: Computer Animation II	40 00	BIO 512	Transmission Electron Microscopy	20.00
ART 494	ST Computer Animation III	40.00	BIO 515	Scanning Electron Microscopy	20.00
ART 494	ST: Experimental Paper	25.00	BLE 401	Teaching Science and Social Studies to Children (ASU West only)	5.00
ART 494	ST Fibers and Surface	25.00	BLE 478	Student Teaching	25.00
ART 494	ST: Forging Techniques	15.00	BLE 496	Field Experience	10.00
ART 494	ST: Foundry	40 00	BLE 578	Student Teaching	25.00
ART 494	ST: Mold Making and Casting	15 00	BOT 108	Plants and Society	10.00
ART 494	ST Neon Workshop	40 00	BOT 231	Horticultural Science	20.00
ART 494	ST Photo Design	25 00	BOT 300	Survey of the Plant Kingdom	15 00
ART 494	ST: Portraiture Photography	25 00	BOT 360	Plant Physiology	30.00
ART 494	ST: Print Textiles	25.00	BOT 370	Flora of Arizona	20 00
ART 494	ST: Relief Printmaking	35.00	BOT 380	Landscape Plants	10.00
ART 494	ST Vapor Glazes	15.00	CHI 101	Elementary Chinese	15.00
ART 494	ST: View Camera	35.00	CHI 102	Elementary Chinese	15 00
ART 494	ST: Watercolor	40.00	CHI 107	Chinese for International Professions I	15.00
ART 494	ST: Wood Carving	30.00	CHI 201	Intermediate Chinese	15.00
ART 498	PS Landscape Photography: Theory	25.00	CHI 202	Intermediate Chinese	15.00
ART 551	Intaglio	40.00	CHI 205	Chinese Calligraphy	15.00
ART 598	ST: Advanced Color Photography	35.00	CHI 207	Chinese for International Professions II	15.00
ART 598	ST: Advanced Furniture	30 00	CHM 101	Introductory Chemistry	15 00
ART 598	ST: Advanced Photo Processes for Printmaking	25 00	CHM 113	General Chemistry	15.00

Special Class Fees and Deposits (continued)

CHM 114	General Chemistry for Engineers	15.00	EPE 505	Applied Exercise Physiology Techniques	15.00
CHM 115	General Chemistry with Quantitative Analysis	15.00	FON 142	Applied Food Principles	35.00
CHM 116	General Chemistry	15.00	FON 341	Introduction to Planning Therapeutic Diets	15.00
CHM 117	Advanced General Chemistry	15.00	FON 442	Experimental Foods	15.00
CHM 118	Advanced General Chemistry	15.00	FON 445	Quantity Food Production	15.00
CHM 319	Organic Chemistry Laboratory for Majors I	15.00	FON 446	Nutrition Assessment Laboratory	25.00
CHM 320	Organic Chemistry Laboratory for Majors II	15.00	FON 545	Recent Development of Institutional Feeding	15.00
CHM 326	Analytical Chemistry Laboratory	15.00	FON 546	Techniques of Nutrition Research	25.00
CHM 335	General Organic Chemistry Laboratory	15.00	FRE 101	Elementary French	15.00
CHM 336	General Organic Chemistry Laboratory	15.00	FRE 102	Elementary French	15.00
CHM 343	Physical Chemistry Laboratory	15.00	FRE 107	French for International Professions I	15.00
CHM 367	Elementary Biochemistry Laboratory	15.00	FRE 111	Fundamentals of French	15.00
CHM 422	Instrumental Analysis Laboratory	15.00	FRE 201	Intermediate Grammar Review	15.00
CHM 424	Separation Methods and Quantitative Organic Analysis	15.00	FRE 202	French Conversation	15.00
CHM 431	Qualitative Organic Analysis	15.00	FRE 207	French for International Professions II	15.00
CHM 444	General Physical Chemistry Laboratory	15.00	GER 101	Elementary German	15.00
CHM 452	Inorganic Chemistry Laboratory	15.00	GER 102	Elementary German	15.00
CHM 464	Biophysical Chemistry Laboratory	15.00	GER 111	Fundamentals of German	15.00
CHM 467	General Biochemistry Laboratory	15.00	GER 201	Intermediate German	15.00
CHM 480	Methods of Teaching Chemistry	15.00	GER 202	Intermediate German	15.00
CLS 310	Principles of Clinical Chemistry	25.00	GLG 102	Introduction to Geology II	20.00
CLS 320	Principles of Clinical Microbiology	25.00	GLG 103	Introduction to Geology Laboratory	5.00
COM 484	Internship	20.00	GLG 305	Geology of the Earth, Moon, and Planets	10.00
COM 584	Internship	20.00	GLG 310	Structural Geology	5.00
DCI 396	Field Experience I	10.00	GLG 336	Invertebrate Paleontology	10.00
DCI 397	Field Experience II	10.00	GLG 405	Geology of the Moon	10.00
ECD 496	Field Experience	10.00	GLG 406	Geology of Mars	10.00
ECE 210	Engineering Mechanics I: Statics	10.00	GLG 420	Volcanology	35.00
EDP 560	Individual Intellectual Assessment	12.50	GLG 424	Petrology Petrography	5.00
EED 320	Teaching Science to Children	5.00	GLG 435	Sedimentology	15.00
EED 401	Teaching Science and Social Studies to Children	5.00	GLG 436	Principles of Stratigraphy	20.00
EED 478	Student Teaching	25.00	GLG 441	Ore Deposits	20.00
EED 496	Field Experience	10.00	GLG 455	Advanced Field Geology	35.00
EED 578	Student Teaching	25.00	GLG 456	Cordilleran Regional Geology	10.00
EED 598	ST: Using Math Manipulative/Elementary School	5.00	GLG 490	Applied Arizona Geology	20.00
EED 598	ST: Using Math Manipulative/Middle School	5.00	GLG 490	Clastic Sedimentology and Petrology	20.00
EPE 105	Archery	15.00	GLG 490	Moon	10.00
EPE 105	Bowling	25.00	GLG 490	Pyroclastic Rocks	25.00
EPE 105	Fencing	45.00	GLG 490	Remote Sensing	10.00
EPE 105	Golf	45.00	GLG 490	Volcano	25.00
EPE 105	Quest Boxing	45.00	GLG 510	Advanced Structural Geology	10.00
EPE 110	Movement Analysis Laboratory: Archery	15.00	GLG 520	Advanced Physical Volcanology	35.00
EPE 110	Movement Analysis Laboratory: Golf	45.00	GLG 524	Advanced Igneous Petrology	20.00
EPE 205	Archery	15.00	GLG 525	Advanced Metamorphic Petrology	5.00
EPE 205	Bowling	25.00	GLG 591	Volcanology	35.00
EPE 205	Golf	45.00	GLG 598	ST: Advanced Field Geology	35.00
EPE 305	Golf	45.00	GLG 598	ST: Clastic Sedimentology and Petrology	20.00
EPE 335	Biomechanics	15.00	GLG 598	ST: Cordilleran Regional Geology	10.00
EPE 340	Physiology of Exercise	15.00	GLG 598	ST: Geology of Mars	10.00
EPE 345	Motor and Developmental Learning	15.00	GLG 598	ST: Ore Deposits	20.00
EPE 370	Advanced First Aid	8.00	GLG 598	ST: Petrology Petrography	5.00
			GLG 598	ST: Principles of Stratigraphy	20.00
			GLG 598	ST: Sedimentology	15.00

Special Class Fees and Deposits (continued)

GLG	598	ST	Volcanology	35.00	POR	101	Elementary Portuguese	15.00
GPH	111		Introduction to Physical Geography	8.00	POR	201	Intermediate Portuguese	15.00
GPH	211		Introduction to Landform Processes	15.00	REC	463	Senior Internships (ASU Main only)	20.00
GPH	418		Landforms of the Western United States	20.00	REC	484	Senior Internships (ASU West only)	20.00
GPH	491		Geographic Field Methods	20.00	REC	498	PS: Canoeing	50.00
HEB	101		Elementary Modern Hebrew	15.00	RUS	101	Elementary Russian	15.00
HEB	102		Elementary Modern Hebrew	15.00	RUS	102	Elementary Russian	15.00
HEB	201		Intermediate Modern Hebrew	15.00	RUS	201	Intermediate Russian	15.00
HEB	202		Intermediate Modern Hebrew	15.00	RUS	202	Intermediate Russian	15.00
HES	301	ST:	Adult Fitness I (ASU West only)	20.00	RUS	211	Basic Russian Conversation	15.00
HES	302	ST:	Adult Fitness II (ASU West only)	20.00	RUS	212	Basic Russian Conversation	15.00
HES	303	ST:	Adult Fitness III (ASU West only)	20.00	SED	478	Student Teaching	25.00
HES	394	ST:	Step Aerobics (ASU West only)	20.00	SED	496	Field Experience	10.00
IAP	352		Drawing and Seeing (ASU West only)	20.00	SED	578	Student Teaching	25.00
IDN	101		Elementary Indonesian I	15.00	SED	598	Using Math Manipulative/Middle School	5.00
IDN	102		Elementary Indonesian II	15.00	SPA	101	Elementary Spanish	15.00
IDN	201		Intermediate Indonesian I	15.00	SPA	102	Elementary Spanish	15.00
IDN	202		Intermediate Indonesian II	15.00	SPA	107	Spanish for International Professions I	15.00
ITA	101		Elementary Italian	15.00	SPA	111	Fundamentals of Spanish	15.00
ITA	102		Elementary Italian	15.00	SPA	201	Intermediate Spanish	15.00
ITA	201		Intermediate Italian	15.00	SPA	202	Intermediate Spanish	15.00
ITA	202		Intermediate Italian	15.00	SPA	207	Spanish for International Professions II	15.00
JPN	101		Elementary Japanese	15.00	SPE	396	Field Experience	10.00
JPN	102		Elementary Japanese	15.00	SPE	478	Student Teaching	25.00
JPN	107		Japanese for International Professions I	15.00	SPE	496	Field Experience	10.00
JPN	201		Intermediate Japanese	15.00	SPE	578	Student Teaching	25.00
JPN	202		Intermediate Japanese	15.00	THA	101	Elementary Thai I	15.00
JPN	206		Calligraphy	15.00	THA	102	Elementary Thai II	15.00
JPN	207		Japanese for International Professions II	15.00	THA	201	Intermediate Thai I	15.00
JUS	484		Internship (ASU Main only)	20.00	THA	202	Intermediate Thai II	15.00
JUS	584		Internship (ASU Main only)	20.00	THP	113	Techniques of Theatrical Makeup	40.00
MIC	206		Microbiology Laboratory	25.00	THP	312	Puppetry with Children	5.00
MIC	302		Advanced Bacteriology Laboratory	25.00	THP	340	Scene Design	5.00
MIC	421		Experimental Immunology	20.00	THP	345	Lighting Design	5.00
MIC	470		Systematic Bacteriology	25.00	THP	440	Advanced Scene Design	5.00
MUP	111		Studio Instruction	60.00	THP	441	Scene Painting	20.00
MUP	121		Studio Instruction	40.00	THP	444	Drafting for the Stage	5.00
MUP	127		Studio Instruction	60.00	THP	445	Advanced Lighting Design	5.00
MUP	311		Studio Instruction	60.00	THP	506	Scenography	5.00
MUP	321		Studio Instruction	40.00	THP	512	Puppetry Workshop	5.00
MUP	327		Studio Instruction	60.00	UET	415	Manufacturing Engineering Principles	10.00
MUP	511		Studio Instruction	60.00	ZOL	370	Vertebrate Zoology (ASU West only)	25.00
MUP	521		Studio Instruction	40.00				
MUP	527		Studio Instruction	60.00				
MUP	727		Studio Instruction	60.00				
NUR	211		Nurse-Client Relationship	15.00	ADE	321	Architectural Studio I	25.00
NUR	214		Health Assessment in Nursing Practice	15.00	ADE	322	Architectural Studio II	25.00
NUR	217		Basic Clinical Skills	15.00	ADE	421	Architectural Studio III	25.00
NUR	314		Health Assessment	15.00	ADE	422	Architectural Studio IV	25.00
NUR	330		Care of Acute and Chronically Ill Adults	15.00	ADE	521	Advanced Architectural Studio I	25.00
NUR	429		Community Health Nursing Clinical	15.00	ADE	522	Advanced Architectural Studio II	25.00
NUR	430		Home Health Care	15.00	ADE	621	Advanced Architectural Studio III	25.00
					ADE	622	Advanced Architectural Studio IV	25.00

Deposits

ADE	321	Architectural Studio I	25.00
ADE	322	Architectural Studio II	25.00
ADE	421	Architectural Studio III	25.00
ADE	422	Architectural Studio IV	25.00
ADE	521	Advanced Architectural Studio I	25.00
ADE	522	Advanced Architectural Studio II	25.00
ADE	621	Advanced Architectural Studio III	25.00
ADE	622	Advanced Architectural Studio IV	25.00

Special Class Fees and Deposits (continued)

CHM 101	Introductory Chemistry ¹	10.00	DSC 461	Design Project II	25.00
CHM 113	General Chemistry ¹	10.00	DSC 464	Interior Design Studio III	25.00
CHM 114	General Chemistry for Engineers ¹	10.00	DSC 465	Interior Design Studio IV	25.00
CHM 115	General Chemistry with Qualitative Analysis ¹	10.00	DSC 466	Interior Design Studio V	25.00
CHM 116	General Chemistry ¹	10.00	DSC 467	Interior Design Studio VI	25.00
CHM 117	General Chemistry for Majors I ¹	20.00	PLA 361	Landscape Architecture III	25.00
CHM 118	General Chemistry for Majors II ¹	20.00	PLA 362	Landscape Architecture IV	25.00
CHM 231	Elementary Organic Chemistry ¹	10.00	PLA 461	Landscape Architecture V	25.00
CHM 235	Elementary Organic Chemistry Laboratory ¹	20.00	PLA 462	Landscape Architecture VI	25.00
CHM 319	Organic Chemistry Laboratory for Majors I ¹	20.00	PUP 361	Urban Planning III	25.00
CHM 320	Organic Chemistry Laboratory for Majors II ¹	20.00	PUP 362	Urban Planning IV	25.00
CHM 326	Analytical Chemistry Laboratory ¹	20.00	PUP 461	Urban Planning V	25.00
CHM 335	General Organic Chemistry Laboratory ¹	20.00	PUP 462	Urban Planning VI	25.00
CHM 336	General Organic Chemistry Laboratory ¹	20.00	PUP 572	Planning Studio I Data Inventory and Analysis	25.00
CHM 343	Physical Chemistry Laboratory ¹	25.00	PUP 574	Planning Studio II: Options and Implementation	25.00
CHM 367	Elementary Biochemistry Laboratory ¹	20.00			
CHM 422	Instrumental Analysis Laboratory ¹	25.00			
CHM 424	Separation Methods and Quantitative Organic Analysis ¹	25.00			
CHM 431	Qualitative Organic Analysis ¹	20.00			
CHM 444	General Physical Chemistry Laboratory ¹	25.00			
CHM 452	Inorganic Chemistry Analysis ¹	20.00			
CHM 467	General Biochemistry Laboratory ¹	20.00			
CHM 525	Spectrochemical Methods of Analysis ¹	25.00			
CHM 526	X Ray Methods of Analysis ¹	25.00			
CHM 527	Electrical Methods of Chemical Analysis ¹	25.00			
DSC 360	Industrial Design III	25.00	AET 183	Private Pilot Certificate ²	
DSC 361	Industrial Design IV	25.00	AET 200	Interim Flight Course ²	
DSC 364	Interior Design Studio I	25.00	AET 283	Instrument Pilot Rating ²	
DSC 365	Interior Design Studio II	25.00	AET 300	Aircraft Design I	0-40.00
DSC 460	Design Project I	25.00	AET 383	Commercial Pilot Certificate ²	
			AET 386	Flight Instruction Certificate ²	
			AET 387	Multi-engine Ground School	17.00/hr
			AET 389	Multi engine Rating ²	
			AET 393	Flight Instructor Instrument Rating ²	
			EPE 105	Scuba	35.00
			EPE 305	Advanced Scuba	35.00

Class Fees Paid in Class or at Location Listed

¹ Chemistry classes may also carry a nonrefundable special class fee. See "Special Fees "

² Fees are variable and paid directly to contractor for rental of aircraft

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Attention
Students New to ASU:
See FAQ on page 525.



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