

**College Council of Nursing Students.** The CCNS is a member of ASASU and serves as the governing body of all student activities in the college. The council acts as a liaison between the Graduate Nurse Organization (GNO), the Student Nurse's Association (SNA), and the Nursing Students for Ethnic and Cultural Diversity. The CCNS provides for communication, cooperation, and understanding among undergraduate students, graduate students, and faculty and represents the college in university and nonuniversity affairs.

**Graduate Nurse Organization.** GNO is the coordinating body for Nursing students in the graduate program. It provides programs, information, and orientation services for graduate students and complements their academic experiences.

**Student Nurses' Association.** SNA is a professional nursing organization. By being a member of SNA, the student belongs to the National Student Nurses' Association (NSNA), which is the student counterpart of the American Nurses Association for RNs. NSNA provides means for financial assistance, career planning, a voice in Washington, an opportunity for involvement, and low cost comprehensive malpractice insurance.

**Nursing Students for Ethnic and Cultural Diversity.** This organization was formed in 1989 to provide a network of information and support for students interested in issues of cultural awareness and diversity.

**Sigma Theta Tau.** The Beta Upsilon chapter of Sigma Theta Tau was chartered at the College of Nursing in 1976. Membership in Sigma Theta Tau is an honor conferred on undergraduate and graduate students who have demonstrated outstanding academic and professional achievement.

**ROTC Program.** Students pursuing a commission through either the Air Force or Army ROTC program are required to take from 12 to 20 hours in the Department of Military Science. To preclude excessive course overloads, these students should plan on an additional one to two semesters and/or summer school to complete degree requirements. ROTC students must meet all of the degree requirements of the college.

## College of Nursing

Barbara A. Durand  
Dean

(NUR 322) 602/965-3244  
[www.asu.edu/asuweb/nursing](http://www.asu.edu/asuweb/nursing)

### PROFESSORS

DURAND, KENNEY, MELVIN, PERRY

### ASSOCIATE PROFESSORS

ADAMS, BAGWELL, BRILLHART,  
DIRKSEN, GALE, ISMEURT, KILLEEN,  
KOMNENCH, MATTSON, MOORE,  
PRIMAS, ROOT, SHEEHY, THURBER

### ASSISTANT PROFESSORS

ALPERS, BOYCHUK, CESAROTT,  
CLARKE, STEFFEN, GARRITY, LONG,  
MCARTHUR, NICHOLS, PICKENS,  
RODRIGUEZ, SEHESTED,  
TOBIASON, ZUNKEL

### CLINICAL ASSOCIATE PROFESSORS

BECK, BELL, FARGOTSTEIN,  
HAGLER, JASPER, KASTENBAUM,  
SCOGGIN, STELLWELL, WHITE

### CLINICAL ASSISTANT PROFESSORS

P. JOHNSON, W. JOHNSON,  
MINYARD, MORRIS, SHEARMAN,  
THORNE, WOTRING

### HEALTH CARE RELATED (HCR) NEW CURRICULUM EFFECTIVE 1998

**HCR 294 ST: Clinical Health Care Ethics.** (3) F, S, SS

*Effective summer session 1998*

An introduction to health care ethics with an emphasis on analysis and ethical decisions on making at both the clinical and health policy levels for health care professionals. Theoretical foundations of bioethics will be reviewed with historical and contemporary social-cultural contexts.

**HCR 294 ST: Culture and Health.** (3) F, S  
*Effective spring 1999*

Relationship between cultures of diverse groups and health/ness. Emphasis on cross-cultural communication, increasing awareness of own cultural influences and indigenous and alternative health practices. Prerequisite: ASB 202

**HCR 294 ST: Health Care Organization.** (3) F, S

*Effective fall 1998*

Overview of United States health care delivery systems, financing, health policy, impact of managed care and basic principles of budgeting, cost-benefit analysis, and resource management.

**HCR 294 ST: Pathophysiology.** (4) F, S

*Effective fall 1999*

Chemical, biological, biochemical, and psychobiological processes are used as a foundation for the understanding of a teratogenic health. The structural and functional pathophysiology of a teratogenic health are examined and selected therapeutic agents are considered. Prerequisites: BIO 202 and MIC 205 and 206 or equivalent.

### NURSING (NUR)

**NUR 119 Introduction to Nursing and Health.** (3) F, S

*Effective through fall 1998*

Basic nursing philosophy, process and skills including health promotion content as related to nursing practice. 3 hours lecture.

**NUR 204 Pharmacological Therapeutics for Nursing.** (3) F, S

*Effective through spring 1999*

Drug classifications and prototypes. Psychopharmacology principles of drug action. Knowledge base to safe administration in nursing practice. Prerequisites: BIO 202 (or equivalent); MIC 205; NUR 119.

**NUR 211 Nurse-Client Relationships.** (3) F, S

*Effective through fall 1998*

Focus on the therapeutic relationship and its application to nursing. Concepts of anxiety, stress and grief will be emphasized. 2 hours lecture, 3 hours lab. Prerequisites: ENG 102, PGS 101, SOC 101 (or 301 or equivalent) *General Studies 1*

**NUR 214 Health Assessment in Nursing Practice.** (3) F, S

*Effective through spring 1999.*

Introductory knowledge and skills for systematic psychosocial, nutritional and developmental nursing assessments for clients over the lifespan. 2 hours lecture, 3 hours lab. Prerequisites: BIO 202 (or equivalent) FON 241, MAT 117. Corequisite: NUR 223

**NUR 217 Basic Clinical Skills.** (2) F, S

*Effective through spring 1999.*

Scientific principles, nursing concepts and selected psychomotor skills for clinical nursing practice. 1 hour lecture, 3 hours lab. Prerequisites: MAT 117; MIC 205, 206; NUR 119. Corequisite: NUR 223

**NUR 223 Nursing Process and Hospitalized Adult.** (6) F, S

*Effective through spring 1999*

Theories, concepts and practice application of the nursing process in care of the hospitalized adult with selected medical/surgical problems. 3 hours lecture, 9 hours lab. Prerequisites: BIO 202 (or equivalent), CHM 231, 235, NUR 211. Corequisites: NUR 214, 217. Pre- or corequisite: NUR 204

**NUR 308 Pathophysiology.** (3) F, S

*Effective through fall 1999*

Focuses on concepts explaining alterations in health states. A psychophysiological viewpoint provides the underlying framework. Prerequisites: CHM 231 and 235 and NUR 223 or instructor approval.

**NUR 327 Comprehensive Nursing Care of Children.** (4) F, S*Effective through spring 2000*

Nursing concepts and practice in caring for well and hospitalized children in a variety of clinical settings. 2 hours lecture 6 hours lab  
Prerequisite: NUR 329.

**NUR 328 Childbearing Family and Women's Health Care.** (4) F, S*Effective through fall 1999*

Nursing concepts and practice in the reproductive and perinatal periods. Includes the impact of childbearing on family members and the relationships. 2 hours lecture 6 hours lab  
Prerequisite: NUR 223

**NUR 329 Psychiatric/Mental Health Nursing.** (6) F, S*Effective through fall 1999*

Guided nursing experiences with individuals and groups based on theory and research. 3 hours lecture, 9 hours lab  
Prerequisites: CDE 232 or equivalent; NUR 223  
Pre or corequisite: FAS 331 or SOC 415 (or equivalent)

**NUR 330 Care of Acute and Chronically Ill Adults.** (4) F, S*Effective through spring 2000*

Nursing concepts and practice in caring for hospitalized adults with complex acute and chronic medical surgical problems. Theoretical bases and related nursing management. 1.5 hours lecture 7.5 hours lab.  
Prerequisites: NUR 308, junior or standing in Nursing major.

**NUR 403 Research in Nursing Practice.** (3) F, S*Effective through fall 2000*

Components of the research process. Significance of research to the improvement of nursing practice and development of the profession. Prerequisites: NUR 328, 329, 3 hours statistics  
*General Studies L2*

**NUR 406 Leadership and Management in Nursing.** (2) F, S*Effective through spring 2001*

Selected theoretical frameworks for organization, management, and leadership in nursing. Prerequisites: NUR 330 and 403 or instructor approval.

**NUR 407 Contemporary Issues in Nursing and Health.** (2) F, S*Effective through spring 2001.*

Selected contemporary issues influencing nursing and the health care system. Prerequisite: senior or status or instructor approval.

**NUR 411 Gerontological Nursing.** (2) F, S*Effective through fall 2000*

Provides perspective of biopsychosocial gerontological content applicable to nursing practice and research. Prerequisites: FON 241 and NUR 223 and 308 or instructor approval.

**NUR 427 Community Health Nursing.** (3) F, S*Effective through fall 2000*

Introduction to public health theory and principles of community health nursing practice  
Prerequisite: NUR 330.

**NUR 428 Management of Clients in Health Care Settings.** (4) F, S*Effective through spring 2001*

Application of principles of nursing management and leadership in health care settings. 1 hour lecture 9 hours lab.  
Prerequisite: NUR 330  
Pre or corequisites: NUR 406, 407.

**NUR 429 Community Health Nursing: Clinical.** (4) F, S*Effective through fall 2000.*

Clinical experience in community health nursing roles and leadership strategies in a variety of settings. 12 hours lab.  
Pre or corequisite: NUR 427.

**NUR 430 Home Health Care.** (3) F, S*Effective through spring 2001*

Issues, trends, and practice in the development and delivery of home health care. 1 hour lecture 6 hours lab.  
Prerequisites: NUR 411, 429.

### NURSING (NUR) NEW CURRICULUM EFFECTIVE 1998

**NUR 306 Professional Development for Registered Nurse Students: Process, Roles, and Function.** (3) F, S

Philosophical and theoretical bases for professional nursing practice. Nursing process for decision making. Professional issues, values and norms.  
*General Studies L1*

**NUR 314 Health Assessment for Registered Nurses.** (3) F, S

Introductory knowledge and skills for systematic physical psychosocial and developmental nursing assessment over the life span. 2 hours lecture 3 hours lab.  
Prerequisite: RN status

**NUR 394 ST: Pharmacology.** (2) F, S*Effective spring 2000*

Foundations of pharmacological interventions

**NUR 394 ST: Professional Development I.** (3) F, S*Effective spring 2000.*

Introduction to professional nursing roles and responsibilities

**NUR 394 ST: Professional Development II.** (3) F, S*Effective fall 2000*

Introduction to research in professional nursing practice

**NUR 394 ST: Theory I: Health Integrity.** (4) F, S*Effective spring 2000*

Concepts related to health integrity with focus on individual client

**NUR 394 ST: Theory II: Health Integrity and Alterations.** (5) F, S*Effective fall 2000*

Concepts related to selected alterations in health integrity with focus on individuals, families, and groups.

**NUR 435 Nursing of Children with Developmental Disabilities.** (3) N

Congenital and acquired physical and mental developmental disorders including the evaluation of child and family and community resources.  
Prerequisite: NUR 327 or instructor approval

**NUR 441 School Nursing Practice.** (3) N

Role of the professional nurse in planning, implementation and evaluation of the school health program.  
Prerequisite: NUR 327 or RN status

**NUR 484 Internship: Nursing Practice I.** (7) F, S*Effective spring 2000*

Promote and maintain application of health assessment nurse process and basic skills to promote and maintain health integrity of individual client

**NUR 484 Internship: Nursing Practice II.** (8) F, S*Effective fall 2000*

Application of nursing process with selected individuals, families and groups experiencing alterations in health integrity

**NUR 484 Internship: Nursing Practice III.** (7) F, S*Effective spring 2001*

Application of increasingly sophisticated nursing process with clients in complex situations and selected settings

**NUR 484 Internship: Nursing Practice IV.** (8) F, S*Effective fall 2001.*

Capstone course requires synthesis of patterns of knowledge. Application of leadership and management concepts in collaborative practice

**NUR 494 ST: Professional Development III: The Art of Nursing.** (3) F, S*Effective spring 2001.*

Exploration of the esthetics, ethics, and personal patterns of knowledge

**NUR 494 ST: Professional Development IV.** (2) F, S*Effective fall 2001*

Focus on role transition to professional nursing

**NUR 494 ST: Theory III: Health Integrity and Alterations.** (6) F, S*Effective spring 2001*

Concepts related to health integrity and alterations with focus on individual's families, groups, aggregates, and communities

**NUR 494 ST: Theory IV: Health Integrity and Alterations.** (3) F, S*Effective fall 2001*

Advanced concepts related to health integrity and alterations that integrity with focus on selected client populations.

**NUR 494 ST: Theory V: Leadership and Management.** (3) F, S*Effective fall 2001*

Concepts of leadership and management in professional practice and health care delivery

**NUR 494 Special Topics.** (1-4) F, S, SS

Advanced study and/or supervised practice in an area of nursing. Lecture and lab to be arranged.  
Prerequisite: 12 hours in Nursing major or instructor approval

**NUR 500 Research Methods.** (3) F, S

Research methods including research conceptualization and design in nursing. Prerequisite: graduate-level inferential statistics course

**NOTE** For the General Studies requirement, codes (such as L1, N3, C, and H) and courses see pages 84-108. For graduation requirements see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

**NUR 501 Advanced Adult Health Assessment/Promotion.** (3) F

Designed to expand adult health assessment/promotion skills through knowledge strategies essential for developing and interpreting data. Lecture, demonstration Prerequisites: college core courses except those s/project under graduate health assessment course Corequisite: NUR 580

**NUR 502 Management and Maintenance of Adults with Chronic Health Alterations: Theory.** (3) S

Emphasizes theory research that guides the management/maintenance of adults with chronic health alterations. Psychophysiology center relationships of Innesses emphasized. Lecture seminar Prerequisites: NUR 501, 580 admission to the graduate Nursing program all flexible core courses except those s/project

**NUR 503 Management and Maintenance of Adults with Acute Health Alterations: Theory.** (3) S

Emphasizes theoretical research foundations essential for advanced practice involving care of adults with acute episodic alterations in health. Lecture, seminar. Prerequisite: NUR 501 Pre- or corequisite: NUR 580

**NUR 512 Community Health Nursing: Advanced Theory II.** (3) F

Students identify and analyze theoretical perspectives and models guiding advanced community health nursing practice. Lecture seminar. Prerequisite: all graduate program core courses Corequisite: NUR 580

**NUR 513 Community Health Nursing: Advanced Theory II.** (3) S

Drawing from the interrelationship students critically examine the application of theory to advanced community health nursing/public health practice. Lecture, seminar Prerequisite: NUR 512. Corequisite: NUR 580.

**NUR 521 Community Mental Health/Psychiatric Nursing: Advanced Mental Health Assessment.** (3) F

Students gain knowledge of theories related to holistic health assessment for the promotion of physical psychological health and development in mental health assessments. Lecture seminar. Prerequisite: a graduate program core courses

**NUR 522 Community Mental Health/Psychiatric Nursing: Advanced Theory I.** (3) F

Analysis of issues, theories, and research restoration and promotion of mental health. Emphasizes development of conceptual framework for psychiatric nursing. Prerequisite: NUR 521 Corequisite: NUR 580

**NUR 523 Community Mental Health/Psychiatric Nursing: Advanced Theory II.** (3) S

Focus of this course is development of theoretical basis for intervention and a knowledge base for collaboration and consultation in the mental health area. Prerequisite: NUR 522 Corequisite: NUR 580

**NUR 524 Psychoneuroimmunology Approaches to Practice.** (3) SS

Overview of theories, concepts and research in psychoneuroimmunology including physiological aspects and application to a holistic nursing model. Seminar Prerequisite: graduate standing.

**NUR 531 Nursing of Children: Theory I.** (3) F

Focus on current practices, research, and issues related to health promotion and disease prevention for children and adolescents. Lecture, seminar. Prerequisite: all core and flexible courses except those s/and/or applied project. Corequisite: NUR 580.

**NUR 532 Nursing of Children: Theory II.** (3) S

Focus on concepts, theories, and research as basis for strategies related to management of illness and health maintenance for children. Lecture seminar Prerequisite: NUR 531. Corequisite: NUR 580.

**NUR 533 Nursing of Children with Special Needs: Theory II.** (3) S

Focus on concepts, theories, and research related to acute and chronic health deviations of children. Lecture, seminar. Prerequisite: NUR 531 or instructor approval. Corequisite: NUR 580.

**NUR 534 Women's Health: Theory I.** (4) F

Focuses on theories, principles, and research related to managing the health of normal perinatal women and families. Cooperative learning strategies. Prerequisite: all graduate program core courses. Corequisite: NUR 580.

**NUR 535 Women's Health: Theory II.** (4) S

Focuses on management of nursing care for high risk perinatal women and women with common health problems. Cooperative learning strategies. Prerequisite: NUR 534. Corequisite: NUR 580

**NUR 542 Nursing Administration Theory I.** (1) (3) F

Critical analysis of leadership theories, organizational dynamics and nursing administration processes. Seminar, case study. Prerequisite: all graduate program core courses

**NUR 544 Nursing Administration Theory II.** (1) (3) S

Synthesis of knowledge from previous courses to develop advanced nursing role. Analysis of resource and quality management and information. Lecture seminar. Prerequisites: NUR 542-543.

**NUR 551 Theoretical Foundations of Advanced Practice Nursing.** (3) F, S

Designed to facilitate student exploration and examination of the foundations of advanced nursing practice. Lecture, seminar. Prerequisite: enrollment in graduate Nursing program

**NUR 552 Health Care Issues and Systems.** (3) F, S

Analysis of organization, financing, service delivery and outcomes of the health system. Emphasizes policy issues, roles and challenges for nurses. Lecture, seminar.

**NUR 553 Life Span Development.** (3) F

Critical examination of concepts, theories, issues and research related to developmental periods throughout the life span. Biogenic and health cognitive, psychological, and social influences are analyzed. Lecture, discussion. Prerequisite: admission to the graduate Nursing program or instructor approval.

**NUR 554 Population-Based Health Care.** (3) F, S

Identify and assess specific community health needs and health care patterns of target populations. Promotion, protection, and improvement of health is addressed when planning health care services. Lecture seminar. Prerequisite: admission to the graduate Nursing program or instructor approval

**NUR 560 Advanced Health Assessment.** (2) S

Expansion of basic health assessment skills and development of clinical problem solving skills are emphasized for the role of the advanced practice nurse. Assessments of infants, children, adolescents and adults included. Lecture seminar. Prerequisites: admission to the graduate Nursing program undergraduate health assessment with the last five years.

**NUR 561 Advanced Practice Nursing Role.** (2) SS

Focuses on the examination and implementation of the role of the advanced practice nurse, emphasizing major components and subcomponents of the role. Lecture, seminar. Prerequisite: admission to the graduate Nursing program or instructor approval

**NUR 562 Family Nurse Practitioner Theory I: Health Promotion, Management, and Maintenance.** (4) F

First didactic role specific course. Focus on concepts and strategies to promote, manage, and maintain health of child, adult, and family. Corequisite: NUR 580

**NUR 563 Family Nurse Practitioner Theory II: Health Promotion, Management, and Maintenance.** (4) S

Second didactic role specific course utilizing knowledge from previous courses to formulate therapeutic promotion management and maintenance for individual across the life span. Corequisite: NUR 580

**NUR 564 Applied Pharmacotherapeutics for Advanced Practice.** (3) S

Lifespan course for advanced nurse practitioners to expand knowledge of pharmacotherapeutic concepts and principles. Lecture, discussion, case studies. Prerequisite: admission to the graduate Nursing program.

**NUR 565 Applied Physiology/Pathophysiology in Advanced Practice.** (3) S

Advanced nurse practitioner course designed to expand previous acquired anatomy and physiology knowledge and discern pathological alterations across the lifespan. Lecture, seminar, case studies. Prerequisites: admission to the graduate Nursing program or instructor approval; undergraduate anatomy and physiology.

**NUR 566 Pediatric Physiology/Pathophysiology.** (3) S

Analysis of the patterns of hereditary cellular differentiation and the development of systems in the infant to adolescent. Prerequisite: admission to the graduate Nursing program or instructor approval.

**NUR 571 Teaching in Nursing Programs.**

(3) N

Analysis of theories, issues, and research related to teaching in nursing. Focus on the process of teaching/learning. Seminar, cooperative learning. Prerequisite: graduate standing. Corequisite: teaching practicum.

**NUR 578 Gestalt Therapy I.** (3) F

An introduction to theory and methodology of Gestalt therapy and its uses for mental health promotion and restoration.

**NUR 579 Gestalt Therapy II.** (3) S

Focus is on further development of Gestalt therapy and its application in working with various client populations. Prerequisite: NUR 578.

**NUR 580 Practicum (Electives).** (1-4) N

Clinical application of theories, concepts, and principles such as health promotion, health management, health maintenance, teaching, management, and special clinical studies.

**NUR 580 Advanced Nursing Practicum I, II.**

(2-6) F, S

Clinical application of theories, concepts, and principles. The areas of concentration include the following:

- (a) Adult Health Nursing
- (b) Community Health Nursing
- (c) Community Mental Health/Psychiatric Nursing
- (d) Family Health Nursing
- (e) Nursing Administration
- (f) Parent-Child Nursing with the Tracts of the Childbearing Family and Nursing of Children

Conferences. Prerequisites: admission to the graduate Nursing program; instructor approval. Corequisite: NUR 501 or 502 or 503 or 512 or 513 or 522 or 523 or 531 or 532 or 533 or 534 or 535 or 562 or 563 or 584.

**NUR 582 Advanced Human Physiology.** (3)

F

Analyzes major theories and concepts of human physiology. Interrelationship of physiology and health is explored.

**NUR 584 Community Health Nursing Internship.** (3) S

Students operationalize community health nursing/public health content in leadership roles in a variety of community agencies. Clinical internship. Prerequisites: NUR 512, 580. Corequisite: NUR 513.

**NUR 585 Stress Reduction.** (3) N

Theory, application, and evaluation of mind/body relaxation methods, including physiological effects. Research findings emphasized. Daily student practice. Prerequisite: graduate standing or instructor approval.

**NUR 586 Advanced Pathophysiology.** (3) S

Manifestation of altered human physiology and disease. Systems theory is used to analyze the relationships of disease and physiology.

**NUR 589 Research Utilization.** (3) F, S

Emphasis on the synthesis and application of research to an identified clinical nursing problem. Prerequisite: NUR 500. Corequisite: NUR 593.

**NUR 591 Seminar.** (2-4) N

Advanced topics, including curriculum development and health promotion. Prerequisite: instructor approval in selected courses.

**NUR 593 Applied Project.** (1) F, S

Preparation of a supervised applied project that is a graduation requirement in some professional majors. Corequisite: NUR 589. Completion of NUR 551 is recommended.

**NUR 598 Special Topics.** (2-4) N

Special study, including issues in health care and organizations, management in nursing, ethical issues, and clinical nurse specialist role. Prerequisite: instructor approval in selected courses.

**NUR 599 Thesis.** (1-6) F, S, SS

Research proposal development, data collection and analysis, thesis writing, and thesis oral defense. Six hours required.



Marianne Murzyn, family nurse practitioner, weighs six-month-old Mary Louise Erb at the university's Community Health Services Clinic. The clinic, located in Scottsdale, serves as a learning laboratory for Nursing students in bachelor's and master's degree programs.

Tim Trumble photo



# College of Public Programs

Anne L. Schneider, Ph.D.  
Dean

## PURPOSE

The faculty in the College of Public Programs offer a wide range of undergraduate and graduate course work, both on and off campus, to full time and part time students. Each academic unit of the college not only assumes responsibility in preparing its own majors, but provides a variety of service courses for the rest of the university. The college is committed to providing excellence in teaching, research, and public service. Consequently, the units work closely with numerous public, quasi public, and private agencies at the national, regional, state, and local levels.

## ORGANIZATION

The College of Public Programs is composed of five academic units, each administered by a chair or director:

- Department of Communication
- Department of Recreation Management and Tourism
- School of Justice Studies
- School of Public Affairs
- Walter Cronkite School of Journalism and Telecommunication

The general administration of the college is the responsibility of the dean, who is responsible to the university president through the senior vice president and provost. For more information, visit the college's home page at [www.asu.edu/copp](http://www.asu.edu/copp).

## ADMISSION

**Freshmen and Transfers.** Individuals interested in admission to an undergraduate program in the College of Public Programs should refer to the information on pages 59–62. Those who meet the minimum university admission requirements will be admitted to the undergraduate academic unit of the college as a *premajor* in that respective academic unit.

**Major Status Admission Requirements.** Entry to any undergraduate academic unit of the college with status as a major requires the completion of at least 56 semester hours with a minimum cumulative GPA of 2.50, the university First Year Composition requirement (see page 79), the university numeracy requirement (see page 85), and the College of Public Programs writing competence, communication, and computer requirements (see pages

407–408). The academic units may also have additional requirements. The ASU GPA is computed on ASU courses only and must be based on a *minimum* of nine semester hours of courses with grade options of "A," "B," "C," "D," or "E."

Most upper division courses in the college are not open to premajors. Premajors should check the catalog information in their major fields to determine any course enrollment restrictions.

Students should refer to the section of the catalog and advising documents with reference to their preferred areas of study for specialized departmental retention requirements and/or continued enrollment in their major courses.

**Transfer Credit.** In most cases, course work successfully completed at a regionally accredited four-year institution of higher education is accepted into the respective academic unit.

Transferable course work successfully completed at an accredited two year institution of higher education (community or junior college) transfers as lower division credit up to a maximum of 64 semester hours.

Successful completion is defined for purpose of transfer as having received a grade comparable to an "A," "B," or "C" at ASU. The acceptance of credits is determined by the director of Undergraduate Admissions, and the utilization of credits toward degree requirements is at the discretion of the academic unit.

## ADVISING

The advising mission for the College of Public Programs professional academic advising staff is to assist students in developing meaningful educational plans that will meet their academic, career, and personal goals in an ongoing process of evaluation and clarification.

The advisors strive to perform their duties in a professional, ethical, confidential, accurate, and supportive manner, respecting student diversity and needs, and always holding the individual in highest regard. The student and advisor should accomplish this process in a spirit of shared responsibility to develop academic excellence, strong decision making skills, and self reliance.

A student who has been admitted to the College of Public Programs is assigned an academic advisor from the

**College of Public Programs Degrees, Majors, and Concentrations**

Major	Degree	Administered by
<b>Baccalaureate Degrees</b>		
Broadcasting Emphases: broadcast journalism, business/management	B.A.	Walter Cronkite School of Journalism and Telecommunication
Communication Journalism Emphases: news editorial, public relations, visual journalism	B.A., B.S. B.A.	Department of Communication Walter Cronkite School of Journalism and Telecommunication
Justice Studies	B.S.	School of Justice Studies
Recreation Concentrations: recreation management, tourism	B.S.	Department of Recreation Management and Tourism
<b>Graduate Degrees</b>		
Communication	M.A.	Department of Communication
Communication Concentrations: communicative development, intercultural communication, organizational communication	Ph.D.	Committee of Faculty
Justice Studies	M.S. <sup>1</sup>	School of Justice Studies
Justice Studies Concentrations: criminal and juvenile justice, dispute resolution; law, justice, and minority population; law, policy, and evaluation; women, law, and justice	Ph.D. <sup>2</sup>	Committee on Law and Social Sciences
Justice Studies	J.D./Ph.D. <sup>3</sup>	Committee on Law and Social Sciences College of Law
Mass Communication	M.M.C.	Walter Cronkite School of Journalism and Telecommunication
Public Administration Concentrations: public information management, public management, public policy analysis and evaluation, urban management and planning	M.P.A.	School of Public Affairs
Public Administration	D.P.A. <sup>2</sup>	Committee on Public Administration
Recreation Concentrations: outdoor recreation, recreation administration, social/psychological aspects of leisure, and tourism and commercial recreation.	M.S.	Department of Recreation Management and Tourism

<sup>1</sup> Graduate students in the School of Justice Studies and the Department of Anthropology are able to receive a concurrent M.S. degree in Justice Studies and M.A. degree in Anthropology.

<sup>2</sup> This program is administered by the Graduate College. See "Graduate College" on pages 282-292.

<sup>3</sup> Ph.D. students in Justice Studies are able to acquire a joint J.D./Ph.D. with concurrent admission to the College of Law at ASU and fulfillment of joint requirements.

academic unit of the student's major area of study. Questions on advising should be directed to the student's academic advisor or to the college Student Services Office, WILSN 203.

**Mandatory Advising.** The following categories of students are required to receive advising and to be cleared on the Mandatory Advising Computer

System before they may register for classes:

1. all freshmen,
2. transfer students in their first semester at ASU;
3. students with admissions competency deficiencies,
4. students with special admissions status;

5. students on probation,
6. students who have been disqualified,
7. students with a cumulative GPA less than 2.00; and
8. readmitted students.

**Course Load.** A normal course load per semester is 15-16 semester hours. The maximum number of hours for

**NOTE** For the General Studies requirement codes (such as L1, N3, C, and H) and courses, see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

which a student can register is 18 semester hours unless an overload petition has been filed and approved by the Department/School Standards Committee and the Academic and Student Affairs Committee of the college. Semester course loads may be further limited for students in mandatory advising.

Petitions for overload are not ordinarily approved for students who have a cumulative GPA less than 3.00 and who do not state valid reasons for the need to register for the credits. Students who register for semester hours in excess of 18 and do not have an approved overload petition on file have courses randomly removed through an "administrative drop" action.

Specific degree requirements are explained in detail under the respective college, school, and department sections.

**DEGREES**

The faculty in the College of Public Programs offer academic instruction in four areas. Successful completion of a four year program of 120 semester hours is specified by the respective academic unit.

**GRADUATE PROGRAMS**

Master's degree programs are offered by five academic units of the College of Public Programs.

For more information on courses, faculty, and programs, see the *Graduate Catalog*.

**UNIVERSITY GRADUATION REQUIREMENTS**

In addition to fulfilling college and major requirements, students must meet all university graduation requirements. For more information, see pages 79-83.

**First-Year Composition Requirement**

Students must demonstrate reasonable proficiency in written English by achieving a grade of "C" or higher in both ENG 101 and 102 (or ENG 107 and 108 for international students), or in ENG 105 or its equivalent (see page 79). Should a student receive a grade lower than "C" in any of the courses, it must be repeated until the specified proficiency is demonstrated. Composition courses transferred from out of state institutions must be evaluated and approved by the advisor in the major, or by other advisors specifically designated for this purpose.

**General Studies Requirement**

All undergraduate students in the College of Public Programs are required to complete the university General Studies requirement in order to be eligible for graduation in any of the undergraduate curricula offered by the college.

General Studies courses are regularly reviewed. To determine whether a course meets one or more General Studies course credit requirement, see the listing of courses, pages 87-108 in the *General Catalog* following the section on "General Studies," and the *Schedule of Classes*, published each semester. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses.

General Studies courses are also identified following course descriptions according to the "Key to General Studies Credit Abbreviations," page 87.

**COLLEGE DEGREE REQUIREMENTS**

In addition to the university General Studies requirement, the College of Public Programs also has requirements in communication, computer science, humanities and fine arts, social and behavioral sciences, and writing competence.

**Communication Requirement**

All undergraduate majors are required to take one of the following courses:

COM 100	Introduction to Human Communication <i>SB</i>	..... 3
COM 225	Public Speaking <i>L1</i>	..... 3
COM 230	Small Group Communication <i>SB</i>	..... 3
COM 241	Introduction to Oral Interpretation <i>L1/HU</i>	..... 3
COM 259	Communication in Business and the Professions	..... 3

These courses present an overview of human communication and help the student to develop oral presentation skills and competence. The course may be included within the university General Studies requirement, the College of Public Programs requirements, or the department/school degree program, where appropriate. Journalism and Broadcasting majors are limited to COM 225 or 241. Recreation majors are limited to COM 225, 241, or 259.

**Computer Requirement**

A computer course is required for all undergraduate majors. Any numeracy (N3) course from the university General Studies list is acceptable. It may be included within the numeracy requirement or department or school degree program, where appropriate.

**Foreign Language Requirement**

The Walter Cronkite School of Journalism and Telecommunication requires proficiency in a language, other than English, for majors in Journalism and Broadcasting. Communication majors have the choice of demonstrating proficiency in a foreign language under one of the B.A. options. Proficiency is defined as completing the second semester intermediate level, or higher, of a foreign language.

**Humanities and Fine Arts Requirement**

Nine hours are required from the university General Studies list from departments other than the student's major.

**Social and Behavioral Sciences Requirement**

Fifteen hours are required from the university General Studies list from departments other than the student's major.

Although many courses offered in the units in the College of Public Programs have the university General Studies designations of Humanities and Fine Arts and Social and Behavioral Sciences, students must choose courses from outside their major to satisfy these areas.

**Writing Competence Requirement**

In addition to ENG 101 and 102 First Year Composition or their equivalent, one of the following courses in advanced written expository composition is required of all undergraduate majors:

BUS 301	Fundamentals of Management Communication <i>L1</i>	..... 3
ENG 215	Strategies of Academic Writing <i>L1</i>	..... 3
ENG 216	Persuasive Writing on Public Issues <i>L1</i>	..... 3
ENG 217	Personal and Exploratory Writing <i>L1</i>	..... 3
ENG 218	Writing about Literature <i>L1</i>	..... 3
ENG 301	Writing for the Professions <i>L1</i>	..... 3
JRN 201	Journalism Newswriting <i>L1</i>	..... 3

The writing competence course may be counted as fulfilling the university General Studies literacy and critical inquiry (L1) requirement if it is on the university-approved list.

### Pass/Fail Option

The College of Public Programs does not offer any courses for pass/fail credit. Courses completed for pass/fail credit outside the College of Public Programs may count only as elective credit in meeting degree requirements.

### Limitation on Physical Education Activity Hours

No more than eight hours of physical education activity courses may be counted within the minimum 120 hours required for graduation.

### MAJOR REQUIREMENTS

Students should refer to the respective department or school section of the catalog and to department or school advising documents for more information on requirements.

**Undergraduate Credit for Graduate Courses.** To enable undergraduate students to enrich their academic development, the Graduate College and the individual academic units of the College of Public Programs allow qualified students to take graduate-level courses for undergraduate credit. To qualify for admission to a graduate-level course, the student must have senior status (87 or more semester hours successfully completed) and a cumulative GPA of 3.00 or higher. In addition, permission to enroll must be given before registra-

tion and must be approved by the instructor of the course, the student's advisor, the department chair or school director, and the dean of the college in which the course is offered.

### ACADEMIC STANDARDS AND RETENTION

**Good Standing.** Any premajor or major student of the respective academic units of the college is considered in good standing for the purpose of retention if the student maintains a cumulative GPA of 2.00 or higher in all courses taken at ASU.

**Probation.** Any student who does not maintain good standing status is placed on probation. A student on academic probation is required to observe any limitations or rules the college may impose as a condition for retention.

**Disqualification.** A student who is on probation becomes disqualified if (1) the student has not returned to good standing or (2) the student has not met the required semester GPA.

Disqualification is exercised at the discretion of the college and becomes effective on the first day of the fall or spring semester following college action. A disqualified student is notified by the Office of the Registrar and/or the dean of the college and is not allowed to register for a fall or spring semester at the university until reinstated. A student who is disqualified may not attend as a nondegree student.

**Reinstatement.** Students seeking reinstatement after disqualification should

contact the College Student Services Office regarding procedures and guidance for returning to good standing. When reinstatement includes readmission, application must be made to the Readmissions Section of the Office of the Registrar.

All academic discipline action is the function of the College Student Services Office, WILSN 203, under the direction of the dean of the college. Students having academic problems should contact this office for advising at 602/965-1034.

### SPECIAL PROGRAMS

#### University Honors College

The College of Public Programs cooperates with the University Honors College, which affords superior undergraduates opportunities for special classes taught by selected faculty. Honors students receive special advising, priority preregistration, and complete a senior honors thesis. Participating students can major in any academic program. A full description of the requirements and the opportunities offered by the University Honors College can be found on pages 293-295.

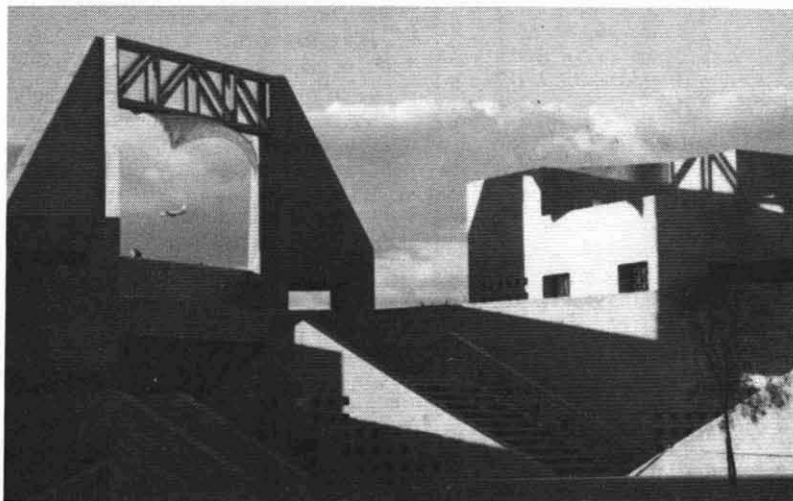
For more information, students should contact the College Student Services Office, WILSN 203 (602/965-1034), and the University Honors College.

#### College of Public Programs Council

The College of Public Programs Council is a unit of ASASU and serves as the coordinating body of student activities in the college. The council fosters communication, cooperation, and understanding among undergraduate students, graduate students, faculty, and staff. As the official representative student organization to the dean and college administration, the council appoints student members to faculty committees, cosponsors events with the college alumni association, and represents students at college and university functions.

#### ASIAN PACIFIC AMERICAN STUDIES (APA)

APA 194, 294, 394, 494 Special Topics.  
APA 484 Internship.  
APA 498 Pro-Seminar.  
APA 499 Independent Study.



Nelson Fine Arts Center.

Priscilla Benbrook photo

**COLLEGE OF PUBLIC PROGRAMS  
(CPP)**

- CPP 194, 294, 394, 494 Special Topics.
- CPP 484 Internship.
- CPP 498 Pro-Seminar.
- CPP 499 Independent Study.
- CPP 580 Practicum.
- CPP 583 Field Work.
- CPP 584 Internship.
- CPP 590, 690 Reading and Conference.
- CPP 591, 691 Seminar.
- CPP 593 Applied Project.
- CPP 594 Conference and Workshop.
- CPP 598 Special Topics.

**Department of  
Communication**

Jess K. Alberts  
*Chair*  
(STAUF A412) 602/965-5095  
[www.asu.edu/copp/communication](http://www.asu.edu/copp/communication)

**PROFESSORS**

ARNOLD BANTZ,  
JAIN, KASTENBAUM,  
PETRONIO, VALENTINE

**ASSOCIATE PROFESSORS**

ALBERTS, BULEY, CARLSON,  
COREY, CORMAN, CRAWFORD,  
DAVEY, MARTIN, MAYER,  
McPHEE, NAKAYAMA, TROST

**ASSISTANT PROFESSORS**

FLORES, GUERRERO,  
HASIAN, TRETHERAY

**ASSOCIATE INSTRUCTIONAL  
PROFESSIONAL**

OLSON

**PURPOSE**

The Department of Communication exists to advance the understanding of message-related human behavior for the purpose of improving communicative interactions. Teaching, research, and service are directed to the continued development of knowledge and application of principles of communication. Courses of study are designed to provide students with relevant programs adapted to individual academic and professional goals

**GENERAL INFORMATION**

A minimum GPA of 2.50 is required for enrollment in all upper division courses and COM 207. A minimum GPA of 2.25 is required for enrollment in COM 110, 241, 250, and 263.

**Communication Major Requirements.** Undergraduate students may be admitted to major status after meeting all of the following requirements:

1. College of Public Programs major status admission requirements (see page 405); and
2. completion of 12 semester hours of Department of Communication core course requirements (COM 100, 207, 225, 308) with a minimum grade of "C" in each.

**DEGREE REQUIREMENTS**

**B.A. and B.S. Degrees**

The B.A. Option 1 degree requires a minimum of 50 semester hours. The B.A. Option 2 and B.S. degrees require a minimum of 51 semester hours each. The minimum hours include 12 semester hours of departmental core courses plus 38 (or 39) semester hours of required and optional courses. Of the minimum required hours for each degree, at least 21 semester hours must be 300 or 400-level courses.

Of the required and optional 38 (or 39) semester hours, 15 semester hours must consist of two pairs from the following list of five sets of courses and one additional introductory course from a third set.

- COM 110 Elements of Interpersonal Communication *SB* . . . . . 3  
or COM 310 Relational Communication (3)  
and COM 410 Interpersonal Communication Theory and Research *SB* (3)
- COM 241 Introduction to Oral Interpretation *LI/HU* . . . . . 3  
and COM 441 Performance Studies *HU* (3)
- COM 250 Introduction to Organizational Communication *SB* . . . . . 3  
and COM 450 Theory and Research in Organizational Communication *SB* (3)
- COM 263 Elements of Intercultural Communication *SB, C, G* . . . . . 3  
and COM 463 Intercultural Communication Theory and Research *SB, G* (3)

- COM 321 Rhetorical Theory and Research *L2/HU H* . . . . . 3  
and COM 421 Rhetoric of Social Issues *HU* (3)

Of the minimum 38 (or 39) semester hours, another 15 semester hours must be communication electives, only three hours of which may be 100 or 200-level courses. A minimum grade of "C" is required in each course except for a maximum of six semester hours of "Y" credit available to qualified students in COM 281, 382, and/or 484.

Of the minimum 38 (or 39) semester hours, for students seeking the B.A. degree either intermediate competency (typically eight semester hours) in a foreign language or COM 407 and six semester hours of upper division related courses are required. For students seeking the B.S. degree, COM 408, three semester hours of General Studies N2 (statistics), and three semester hours of General Studies SB courses beyond the College of Public Programs' requirement are required.

To assure the breadth and depth of their education, all Communication undergraduates must complete the university General Studies requirements prescribed by the College of Public Programs and the Department of Communication. For descriptive information on these requirements, refer to "General Studies" on pages 84-108 and "University Graduation Requirements" on pages 79-83. Students in the College of Public Programs are required to take an advanced composition course (which will meet the General Studies L1 requirement), and additional courses in the humanities and fine arts, and social and behavioral sciences (see pages 407-408). Although many Communication courses meet the university General Studies requirements for L1, humanities and fine arts, and the social and behavioral sciences, students must take an advanced composition course from the list provided by the College of Public Programs for their L1; a total of nine hours of humanities and a total of 15 hours of social and behavioral sciences from disciplines other than Communication.

Students should consult their advisors for current information concerning College of Public Programs and Department of Communication lists of

**NOTE.** For the General Studies requirement, codes (such as L1, N3, C, and H), and courses see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

courses applicable to General Studies requirement and for information concerning differences in requirements for the B.A. and B.S. degrees

**SECONDARY EDUCATION—  
B.A.E.**

**Communication.** An academic specialization in communication is offered to students pursuing the Bachelor of Arts in Education degree with a major in Secondary Education. As the major teaching field, the academic specialization in communication consists of a minimum of 40 semester hours in communication (including COM 480 Methods of Teaching Communication). Students must complete all courses required by the university and the College of Public Programs. Students must complete the following Department of Communication core courses:

COM 100	Introduction to Human Communication <i>SB</i>	3
COM 207	Introduction to Communication Inquiry	3
COM 225	Public Speaking <i>L1</i>	3
COM 281	Communication Activities	1 3
COM 368	Empirical Research Methods in Communication <i>L2</i>	3
COM 480	Methods of Teaching Communication	3
Two pairs of the five pairs of courses plus one additional introductory course from a third set listed under "B.A. and B.S. Degrees" ...		
Minimum total		31

Students must also take three of the following courses:

COM 222	Argumentation <i>L</i>	3
COM 230	Small Group Communication <i>SB</i>	3
COM 312	Communication Conflict and Negotiation	3
COM 319	Persuasion and Social Influence	3
COM 325	Advanced Public Speaking <i>L1</i>	3

Students should consult the College of Education to ascertain the General Studies requirement for this degree.

As the minor teaching field, the academic specialization in communication consists of a minimum of 28 semester

hours in communication. Students must take the following courses:

COM 100	Introduction to Human Communication <i>SB</i>	3
COM 225	Public Speaking <i>L1</i>	3
COM 281	Communication Activities	1 3
COM 480	Methods of Teaching Communication	3
Minimum total		10

Students must also take two of the following courses:

COM 100	Elements of Interpersonal Communication <i>SB</i> or COM 310 Relational Communication	3
COM 241	Introduction to Oral Interpretation <i>L1 HU</i>	3
COM 263	Elements of Intercultural Communication <i>SB C G</i>	3
COM 321	Rhetorical Theory and Research <i>L2 HU H</i>	3

Students must also take three of the following courses:

COM 222	Argumentation <i>L1</i>	3
COM 230	Small Group Communication <i>SB</i>	3
COM 312	Communication Conflict and Negotiation	3
COM 319	Persuasion and Social Influence	3
COM 325	Advanced Public Speaking <i>L1</i>	3

In addition, COM 207 Introduction to Communication Inquiry may be taken, since it is a prerequisite for many COM courses.

**Communication Internships**

Internships consist of supervised field experiences and are available to upper level undergraduate students with major status and a GPA higher than 2.50 (COM 484) and to graduate students (COM 584). An application for internship must be completed in the semester before the intended term for an internship. Contact the department for specific deadline dates. Internships must receive prior approval from the departmental coordinator of Internship Programs before student registration for the course. Internships may be taken once or repeated for credit up to a total of 12 semester hours, but not more than six semester hours may be applied toward the major.

**MINOR IN COMMUNICATION**

The minor in Communication consists of required courses COM 100 plus COM 225 or 259, and nine additional semester hours, at least six of which must be upper division. Nine of the total 15 semester hours must be ASU Main resident credits. No pass/fail, "Y" credit, or credit/no credit courses will be allowed. Communication courses which are required for one's major may not also count for the minor. All prerequisite and GPA requirements must be met. The "C" minimum requirement must be met for each class.

**GRADUATE PROGRAMS**

In addition to offering a Master of Arts degree program, the Department of Communication also administers the interdisciplinary Doctor of Philosophy degree program in Communication. Consult the *Graduate Catalog* for the requirements and areas of concentration.

**COMMUNICATION (COM)**

**COM 100 Introduction to Human Communication.** 3 F S SS

Attributes: oriented introduction to basic theories, dimensions and concepts of human communication; interactive and behavior. *General Studies SB*

**COM 110 Elements of Interpersonal Communication.** 3 F S SS

Demonstration and practice of communication techniques in establishing a dramatic negotiation. *General Studies SB*

**COM 207 Introduction to Communication Inquiry.** 3 F S, SS

Bases of inquiry into human communication, including introduction to notions of theory, philosophy, problems and approaches to the study of communication. Prerequisite: COM 100

**COM 222 Argumentation.** 3 F, S

Philosophical and theoretical foundations of argumentation, including a comparison of modes of advocacy and evidence. *General Studies L1*

**COM 225 Public Speaking.** 3 F, S, SS

Verbal and nonverbal communication platform speaking. Discussion and practice in vocal and physical delivery and purposeful organization and development of public communication. *General Studies L1*

**COM 230 Small Group Communication.** (3 F S SS)

Principles and processes of small group communication; attitudes and skills for effective participation and leadership in small groups; small group problem solving and decision making. *General Studies SB*

**NOTE** For the General Studies requirement, codes (such as L1, N3, C, and H) and courses see pages 84-108. For graduation requirements see pages 79-83. For omnibus courses offered but not listed in this catalog see pages 56-57.



**COM 241 Introduction to Oral Interpretation.** 3 F, S, SS

The communication of literary materials through the mode of performance. Verbal and nonverbal behavior interface interpreter with literature and audience in rhetorical and dramatic analysis of literary modes. *General Studies, L1 HU*

**COM 250 Introduction to Organizational Communication.** 3 F, S, SS

Introduction to the study of communication organizations, including identification of variables roles and patterns influencing communication organizations. *General Studies SB*

**COM 251 Interviewing.** 3 N

Principles and techniques of interviewing including practice through reading and simulated interviews. Informational, persuasive, and employment-related situations. Not open to freshmen.

**COM 259 Communication in Business and the Professions.** 3 F, S, SS

Interpersonal, group, and public communication in business and professional organizations. Not open to freshmen and not available for credit toward the major.

**COM 263 Elements of Intercultural Communication.** 3 F, S, SS

Basic concept, principles and skills for improving communication between persons from different minority, racial, ethnic, and cultural backgrounds. *General Studies, SB, C, G*

**COM 271 Voice Improvement.** 3 N

Intensive personal and group experience to improve normal voice usage including articulation and pronunciation.

**COM 281 Communication Activities.** 1 3 F, S, SS

Nongraded participation in forensics or interpretation cocurricular activities. Maximum 3 semester hours each semester. Prerequisite: instructor approval.

**COM 294 Special Topics.** 3 F, S, SS

Prerequisite: instructor approval.

**COM 308 Empirical Research Methods in Communication.** 3 F, S, SS

Examination of empirical research methods in communication including experimental, survey, descriptive, and other quantitative approaches. Prerequisites: COM 207, MAT 114 or 117. *General Studies, L2*

**COM 310 Relational Communication.** 3 F, S

Exploration of communication processes in the development of personal relationships. Current topics concerning communication in friendship, romantic, and workplace. Prerequisite: COM 100 or instructor approval.

**COM 312 Communication, Conflict, and Negotiation.** 3 F, S

Theories and strategies of communication relevant to the management of conflicts and the conduct of negotiations. Prerequisite: COM 100 or instructor approval.

**COM 316 Gender and Communication.** 3 F, S

Introduction to gender-related communication. Verbal, nonverbal, and paralinguistic differences and similarities are examined within social psychology, and historical perspectives. *General Studies, SB, C*

**COM 317 Nonverbal Communication.** (3) F, S

The study of communication using space, time, movement, facial expression, touch, appearance, environmental objects, voice, and gender/cultural variables. Not open to students with credit in COM 294 ST: Beyond Words.

**COM 319 Persuasion and Social Influence.** 3 F, S, SS

Variables that influence and modify attitudes and behaviors of message senders and receivers including analysis of theories, research, and current problems. Prerequisites: COM 207 or equivalent and POS 401 and PSY 23 or QBA 221 and SOC 395 and STP 226 or instructor approval. *General Studies, SB*

**COM 320 Communication and Consumerism.** 3 A

Critical evaluation of messages designed for public consumption. Perceiving evaluation, and responding to political, social, and commercial communication. *General Studies, SB*

**COM 321 Rhetorical Theory and Research.** 3 F, S

Historical development of rhetorical theory and research in communication from classical antiquity to the present. Prerequisite: COM 207 or equivalent and POS 401 and PSY 290 and SOC 391 or instructor approval. *General Studies, L2/HU, H*

**COM 323 Communication Approaches to Popular Culture.** 3 F, S, SS

Critical analysis of popular culture within social and political contexts, emphasis on multicultural influences and representations in everyday life. Lecture, discussion. Prerequisite: COM 100 or instructor approval. *General Studies, C*

**COM 325 Advanced Public Speaking.** (3) F, S

Social and pragmatic aspects of public speaking as a communicative system. Strategies of rhetorical theory and the presentation of forms of public communication. Prerequisite: COM 225 or instructor approval. *General Studies, L1*

**COM 341 Social Contexts for Performance.** 3 N

Adaptation and performance of literature for the community outside the university. Research into the practical uses of performance literature.

**COM 344 Performance of Oral Traditions.** 3 N

Cultural beliefs and values studied through ethnographic research and performance of personal narratives, folklore, myths, legends, and other oral traditions. Lecture, fieldwork. Research paper. *General Studies, HU, C*

**COM 357 Communication Technology and Information Diffusion.** 3 F

Study effects of new communication technology on society, organizations, and individuals. Hands-on experience using critical analysis of theory and research. Prerequisites: COM 250 or JRN 310 or MGT 301 or PGS 43 or SOC 311 and CSE 180 or equivalent or instructor approval. *General Studies, SB*

**COM 371 Language, Culture, and Communication.** (3) F, S

Cultural influences of language on communication, including social functions of language, bilingualism, biculturalism, and dialectism. Prerequisite: COM 263 or instructor approval. *General Studies, SB, C, G*

**COM 382 Classroom Apprenticeship.** 1 3 F, S, SS

Nongraded credit for students extending their experience with a content area by assisting with classroom supervision in other COM courses. Maximum 3 semester hours each semester. Prerequisite: instructor approval.

**COM 394 Special Topics.** 1-4) F, S, SS

Prerequisite: instructor approval.

**COM 404 Research Apprenticeship.** (3) F, S, D

Direct research experience on faculty projects. Student/faculty match based on interests. Lecture, apprenticeship. Prerequisite: COM 308 or instructor approval.

**COM 407 Advanced Critical Methods in Communication.** (3) S

Examination of critical approaches relevant to communication, including textual, social theory, cultural studies, and ethnography. Lecture, discussion. Prerequisite: COM 308.

**COM 408 Quantitative Research Methods in Communication.** (3) F, S

Advanced designs, measurement techniques, and methods of data analysis of communication research. Prerequisites: COM 308 and POS 401 (or PSY 230 or QBA 221 or SOC 395 or STP 226 or instructor approval).

**COM 410 Interpersonal Communication Theory and Research.** 3 F, S, SS

Survey and analysis of major research topics, paradigms, and theories dealing with message exchanges between and among social peers. Prerequisites: COM 110 and 308 or instructor approval. *General Studies, SB*

**COM 411 Communication in the Family.** 3 A

A broad overview of communication issues found in marriage and family, focusing on current topics concerning communication in the family. Prerequisites: COM 110 and 207 or instructor approval. *General Studies, SB*

**COM 414 Crisis Communication.** 3 N

Role of communication in crisis development and intervention. Prerequisite: instructor approval.

**COM 417 Communication and Aging.** 3 N

Critical study of changes in human communication patterns through the later adult years with attention on intergenerational relationships and self-concept functions. Prerequisite: instructor approval.

**COM 421 Rhetoric of Social Issues.** 3 F, S

Critical rhetorical study of significant speakers and speeches on social issues of the past and present. Prerequisites: COM 308 and 321 or instructor approval. *General Studies, HU*

**COM 422 Advanced Argumentation.** 3 N

Advanced study of argumentation theories and research as applied to public madversary, scholarly, and legal settings. Prerequisite: COM 222 or instructor approval.

**COM 426 Pol'tica Communication.** 3 F  
Theory and practice of political communication in national and international mass persuasion, propaganda and speeches Emphasis on the rhetorical process *Genera Studies SB*

**COM 430 Leadership in Group Communication** 3 N

Theory and process of leadership in group communication emphasizing professional and contemporary research and applications to group situations Prerequisite COM 230 or instructor approval

**COM 441 Performance Studies.** 3 F S, SS

Theory and practice and criticism of texts in performance Emphasis on the interaction between performer text audience and text Prerequisites COM 241 and 308 or instructor approval *Genera Studies HU*

**COM 445 Narrative Performance.** 3 N

Theory and practice of performing narrative texts in performance, oral histories and essays etc includes scripting directing and the rhetorical analysis of storytelling Prerequisite COM 410 or instructor approval *Genera Studie HU*

**COM 446 Interpretation of Literature Written by Women.** 3 N

Students explore through performance and literary interpretation written by women *Genera Studies HU C*

**COM 450 Theory and Research in Organizational Communication.** 3 F S SS

Current and emerging theories of the dominant theoretical approaches to communication and their primary research strategies Prerequisites COM 25 and 308 or instructor approval *Genera Studies SB*

**COM 453 Communication Training and Development.** 3 A

Examination of the procedures and types of organizational training and development business and government Prerequisite COM 5 or instructor approval

**COM 463 Intercultural Communication Theory and Research.** 3 F S SS

Survey and analysis of major theories and research dealing with communication between people of different cultural backgrounds primarily in international settings Literature discussion major work Prerequisites COM 26 and 308 or instructor approval *Genera Studies SB G*

**COM 465 Intercultural Communication Workshop** 3 N

Experiential based study of communication between embedded cultures design of the student improve the intercultural communication on skills Prerequisite instructor approval

**COM 480 Methods of Teaching Communication** 3 N

Analysis of organizational and presentational text and their classroom materials Prerequisite instructor approval

**COM 484 Communication Internship.** 12 F S SS

Prerequisite COM 225 308

**COM 494 Special Topics.** 1 3 F, S SS

Prerequisite instructor approval

**COM 501 Research Methods in Communication.** 3 F

Critical analysis of systems of inquiry in communication focusing on the identification of variables and approaches to conducting research in communication Prerequisite instructor approval

**COM 504 Theories and Models in Communication.** 3 F

Theory construction metatheoretical concerns model construction and comparative analysis of current theories in communication Prerequisite instructor approval

**COM 508 Quantitative Research Methods in Communication.** 3 F

Empirical research designs measurements and statistical techniques and experimental and descriptive research in communication. Prerequisites COM 501 and 504 or instructor approval

**COM 509 Qualitative Research Methods in Communication.** 3 S

Qualitative research methods including interview field methods and other nonquantitative techniques for analyzing communication Prerequisites COM 501 and 504 or instructor approval

**COM 510 Interpersonal Communication Theory and Research.** 3 A

Contemporary theories and research in interpersonal communication Prerequisites COM 501 and 504 or instructor approval

**COM 512 Death, Society, and Human Experience.** 3 N

Examines dying death bereavement and suicide from both individual and sociocultural perspectives in terms of options for communication and action in death related situations Prerequisite instructor approval

**COM 521 Rhetorical Criticism of Public Discourse.** 3 N

History and significance of rhetorical theory and criticism in the analysis of public discourse Prerequisites COM 501 and 504 or instructor approval

**COM 529 Theories of Persuasion.** 3 A

Analysis of representative theories and models of persuasion processes and the requirements for communicative behavior Prerequisites COM 501 and 504 or instructor approval

**COM 531 Theories of Small Group Communication.** 3 N

Theory and research in small group interaction and decision making, focusing on communication variables which affect small group output Prerequisites COM 501 and 504 or instructor approval

**COM 541 Research in Performance Studies.** 3 N

Surveyed research in the history and contemporary relationships between the performer the text and the audience Prerequisites COM 501 and 504 or instructor approval

**COM 555 Communicative Processes in Organizations.** 3 N

Systematic analysis of communicative interactions between organizational structure information flow and human behaviors in the organizational setting Prerequisites COM 501 and 504 or instructor approval

**COM 563 Intercultural Communication.** (3) A

Analysis of contemporary theory and research concerning the effects of a variety of cultural variables on communication between people Prerequisites COM 501 and 504 or instructor approval

**COM 575 Language and Message Systems.** 3 N

Sign/symbol systems person function and contextual aspects of message systems; measurement of "meaning" Prerequisites COM 501 and 504 or instructor approval

**COM 584 Communication Internship.** (12) F, S, SS

**COM 596 Pro-Seminar in Communication.** 0 F

Discussion of research projects with the faculty Prerequisite admission to the graduate program

**COM 601 Multidisciplinary Perspectives in Research in Communication.** (3) F

Critical review of approaches aspects, concepts and issues associated with research in communication Prerequisite instructor approval

**COM 604 Theory Construction in Communication.** 3) F

Review and analysis of philosophical problems inherent in communication research and of metatheories designed to deal with these problems Prerequisite COM 504 or instructor approval

**COM 607 Contemporary Rhetorical Methods.** (3) S

Analysis of issues in the practice of rhetorical communication research, including critical and scholarly seminar.

**COM 608 Multivariate Statistical Analysis of Data in Communication.** (3) S

Statistical analysis of communication research data Multivariate procedures used in communication research and methods of causal analysis Prerequisites COM 501 and 508 or equivalents

**COM 609 Advanced Qualitative Research Methods in Communication.** (3) F

Analysis of issues in the practice of qualitative communication research, including data gathering, fieldwork issues, analysis strategies, and reporting results Prerequisite COM 509 or instructor approval

**COM 691 Seminar.** (1 12) F S

Seminar topics such as the following may be offered

- Current Organizational Approaches to Communication
  - Examination of Privacy and Disclosure in Intercultural Aspects of Communication
  - Interpersonal and Relational Communication
  - Issues in Feminist Perspectives in Communication
  - Rhetorical issues
  - Social Influence
- Prerequisite instructor approval

**COM 780 Practicum: Research in Communication.** (3) N

Guided practice in the conduct of communication research Topic identification procedures formats, and ethics of publishing Prerequisites COM 601 604

**Walter Cronkite School  
of Journalism and  
Telecommunication**

Douglas A. Anderson  
*Director*

(STAUF A231) 602/965-5011  
cronkite.pp.asu.edu

**PROFESSORS**

ANDERSON, CRAFT, CRONKITE  
DOIG, GODFREY, HALVERSON,  
MERRILL, SYLVESTER,  
WATSON, YOUIM

**ASSOCIATE PROFESSORS**

ALLEN, BRAMLETT-SOLOMON,  
GALICIAN HOY, LENTZ,  
MATERA RUSSELL

**ASSISTANT PROFESSORS**

BARRETT, GORMLY, RUSSOMANNO

**CLINICAL ASSOCIATE  
PROFESSORS**

TULE, LEIGH

**LECTURERS**

CASAVANTES, NASH

**PURPOSE AND PHILOSOPHY**

The primary purpose of the Walter Cronkite School of Journalism and Telecommunication is to prepare students to enter positions in media fields. The school strives to meet its mission through a three-pronged approach:

1. classroom instruction in a blend of conceptual courses, such as media law, media ethics, media history, and media management and skills courses, such as writing, editing, reporting, and production techniques;
2. on-campus media work opportunities, such as the *State Press*, the independent daily newspaper; KASR radio, KAET-TV; KAET TV/Cactus State Poll; and "Newswatch," a weekly student produced cable television news magazine program, and
3. off campus media work opportunities, including internships in print, broadcast, public relations, and visual journalism.

In addition to preparing students to assume positions in the media and media-related enterprises, the school provides courses that lead to a better understanding of the role and responsibility of the media in society's public and private sectors

**ADMISSION**

**Preprofessional Admission**

Students admitted to ASU also may be admitted to the Walter Cronkite School of Journalism and Telecommunication with preprofessional status. Preprofessional admission to the school does not guarantee admission to the upper division professional program. All preprofessional students enrolling in courses in the school must complete a minimum of 30 semester hours with at least a 2.50 GPA before they are permitted to enroll in school courses at the 200 level. All preprofessional students who intend to take courses beyond the 100-level must pass an English proficiency examination administered by the school.

**Professional Program Admission**

Admission to the Walter Cronkite School of Journalism and Telecommunication professional program, which enrolls students in their junior and senior years, is competitive and based on available resources. Once a student is granted admission, the upper division professional program requires a minimum of two years to complete.

A separate application procedure is required for entry to the upper division professional program. To be eligible to apply for admission to the professional program, students must meet the following requirements

1. be admitted to ASU as a classified student;
2. have completed at least 56 semester hours by the close of the semester in which the application is submitted;
3. have completed lower division courses or their equivalents, as specified below;
4. have completed, with a passing score, the English proficiency examination administered by the school; and

5. College of Public Programs major status admissions requirements.

As described above, students must have completed specified lower division courses. Broadcasting preprofessionals must complete the following courses:

TCM 200	Fundamentals of Radio Television	3
TCM 201	Radio Television Writing LI*	3
TCM 235	Production Techniques*	3
Total		9

\* TCM 235 may be in progress at the time of application but must be completed to enroll in the professional program courses

Journalism preprofessionals must complete the following courses.

JRN 201	Journalism Newswriting LI	3
MCO 110	Introduction to Communication .. . . .	3
	or MCO 120 Media and Society SB (3	
Total		6

To be considered for admission to the school's upper division professional program, students must obtain an application form from the school office in STAUF A231. Precise application procedures and submission deadlines are outlined on the form. Completion of the minimum requirements for eligibility does not guarantee admission to the upper division professional program. The admissions committee considers a variety of criteria, including cumulative GPA, media experience, writing ability, and commitment to the field.

**ADVISING**

Students should follow the sequence of courses outlined on school curriculum check sheets and the advice of the school's academic advisers. All students who enroll as preprofessionals or who seek and ultimately gain professional status should meet regularly with Walter Cronkite School of Journalism and Telecommunication academic advisers. Conscientious, careful planning and early advising are crucial to students who desire to progress through the program in a timely fashion.

**NOTE** For the General Studies requirement codes (such as L1, N3, C, and H), and courses, see pages 84-108. For graduation requirements see pages 79-83. For omnibus courses offered but not listed in this catalog see pages 56-57.

**DEGREES**

The faculty in the school offer programs leading to two undergraduate degrees: the B.A. degree in Broadcasting and the B.A. degree in Journalism. Students select one of two areas of curricular emphasis in the broadcasting program: broadcast journalism or business/management. Students select one of three areas of curricular emphasis in the journalism program: news editorial, public relations, or visual journalism.

The school offers a program leading to the graduate degree Master of Mass Communication.

**TRANSFER STUDENTS**

Transfer students must be admitted formally to ASU and must adhere to the admission procedures to be considered for admission to the professional program in the Walter Cronkite School of Journalism and Telecommunication.

Students completing their first two years of course work at a community college or four year institution other than ASU should consult the school's academic advisors at least three months before they hope to be considered for admission to the school's professional program. Transfer student admission to ASU does not guarantee admission to the upper division professional program.

**PROGRAM REQUIREMENTS**

Because the Walter Cronkite School of Journalism and Telecommunication is accredited by the Accrediting Council on Education in Journalism and Mass Communication, its students are required to take a minimum of 90 semester hours in courses outside the major of broadcasting or journalism, with no fewer than 65 semester hours in liberal arts and sciences. This requirement ensures that students receive a broad academic background.

At least 18 semester hours of major courses required by the school, including one writing course, must be taken at ASU. A student must receive a grade of "C" or higher in all courses taken in the major and in the required related field area. Specific areas that may be used to fulfill the related field requirement are listed on the curriculum check sheets for each major available in the

school. Courses elsewhere in the university that duplicate or are closely related to school subject matter may be restricted by the school.

**B.A. REQUIREMENTS**

All students are required to complete 16 semester hours of courses in a foreign language or the equivalent through the intermediate level.

**Broadcasting.** The major in Broadcasting consists of a minimum of 30 semester hours in Walter Cronkite School of Journalism and Telecommunication courses. Students must take the following courses

MCO 110	Introduction to Communication ... ..	3
	or MCO 120 Media and Society <i>SB</i> (3)	
MCO 402	Communications Law <i>L2</i> ...	3
TCM 200	Fundamentals of Radio Television . . . . .	3
TCM 201	Radio-Television Writing <i>L1</i> . . . . .	3
TCM 235	Production Techniques . . .	3
Total	.....	15

The student also must choose one major professional emphasis area from the following: broadcast journalism or business/management.

These courses are in addition to other degree requirements. See "University Graduation Requirements," pages 79-83

**Journalism.** The major in Journalism consists of a minimum of 30 semester hours in Walter Cronkite School of Journalism and Telecommunication courses. Students must take the following required school courses:

JRN 201	Journalism Newswriting <i>L1</i>	3
JRN 301	Reporting <i>L2</i> . . . . .	3
JRN 313	Introduction to Editing	3
MCO 110	Introduction to Communication . . . . .	3
	or MCO 120 Media and Society <i>SB</i> (3)	
MCO 402	Communications Law <i>L2</i>	3
MCO 418	History of Communications <i>SB, H</i> . . . . .	3
	or MCO 421 News Problems (3)	
	or MCO 430 International Communication <i>G</i> 3	
	or MCO 450 Visual Communication <i>HU</i> (3)	
Total	.....	18

The student also must choose one major professional emphasis area from the following three: news editorial, public relations, or visual journalism.

These courses are in addition to other degree requirements. See "University Graduation Requirements," pages 79-83.

**Related Field.** Each student is required to complete a 12-semester hour related field to complement the courses taken in the major emphasis areas.

See the curriculum check sheets for each major for the full details and approved related field areas.

**SECONDARY EDUCATION—B.A.E.**

**Journalism.** The academic specialization in journalism as a major teaching field consists of 45 semester hours. The following courses are required:

JRN 201	Journalism Newswriting <i>L1</i> . .	3
JRN 301	Reporting <i>L2</i> . . . . .	3
JRN 313	Introduction to Editing . . . .	3
JRN 351	Photojournalism I . . . . .	3
MCO 110	Introduction to Communication . . . . .	3
	or MCO 120 Media and Society <i>SB</i> (3)	
MCO 402	Communications Law <i>L2</i> . . . .	3
	Approved elective . . . . .	3
Total	.....	21

An additional 24 semester hours, including 12 semester hours in school course offerings, must be taken on approval by the advisor in consultation with the student. The remaining courses may be in closely related fields.

The academic specialization in journalism as a minor teaching field consists of 24 semester hours. The following courses are required:

JRN 201	Journalism Newswriting <i>L1</i> . .	3
JRN 301	Reporting <i>L2</i> . . . . .	3
JRN 313	Introduction to Editing . . . . .	3
JRN 351	Photojournalism I . . . . .	3
MCO 110	Introduction to Communication . . . . .	3
	or MCO 120 Media and Society <i>SB</i> (3)	
	Approved elective . . . . .	3
Total	.....	18

The remaining courses are to be selected in consultation with a journalism advisor.

**NOTE:** For the General Studies requirement, codes (such as L1, N3, C, and H), and courses see pages 84-108. For graduation requirements see pages 79-83. For omnibus courses offered but not listed in this catalog see pages 56-57.

**GENERAL STUDIES REQUIREMENTS**

The students must satisfy the university General Studies requirement found on pages 87–108 and the College of Public Programs course requirements found on pages 407–408. The school requires the student to accumulate a total of 51 semester hours in General Studies. The student is advised to review carefully the appropriate school curriculum check sheet to be sure courses taken move the student toward graduation with the least amount of delay and difficulty. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses.

General education requirements for the Walter Cronkite School of Journalism and Telecommunication follow.

**Humanities and Fine Arts.** Three to six semester hours are required for a total of nine semester hours when combined with university General Studies.

**Social and Behavioral Sciences.** Six to nine semester hours are required for a total of 15 when combined with university General Studies.

Additional courses may be taken in each of the groups and from the electives listed to complete the total of 51 semester hours required by the school.

Within the program there are specific course requirements. Students are required to take one course in each of the following areas: communication (applied speech), computer science, economics, English composition (beyond the freshman level), English literature, history, mathematics (numeracy requirement), two natural science lab courses, philosophy, political science (either POS 110 or 310), psychology, and statistics.

**MINOR IN MASS COMMUNICATION**

The faculty in the School of Journalism and Telecommunication offer a minor in Mass Communication consisting of required course MCO 120 Media and Society, and 12 additional semester hours of upper division Main campus resident credit taken from a list of approved courses. The following courses are included:

- MCO 418 History of Communications *SB, H* . . . . . 3
- MCO 430 International Communication *G* . . . . . 3

- MCO 450 Visual Communication *HU* . . . . . 3
- MCO 456 Political Communication *SB* . . . . . 3
- MCO 460 Race, Gender, and Media *C* . . . . . 3
- MCO 494 Special Topics . . . . . 3

The student must be at least a sophomore (25 semester hours) to take upper division courses, must maintain a minimum 2.00 overall GPA to pursue the minor in Mass Communication, and must obtain a minimum “C” grade in each course in the minor.

**GRADUATE PROGRAM**

**Master of Mass Communication.** The curriculum for the M.M.C. degree is designed to help students achieve intellectual and professional growth, to prepare students for positions in the mass media, and to provide a background to enable those currently in the media to advance their careers. Information on the Master of Mass Communication program is detailed in the *Graduate Catalog*.

**JOURNALISM (JRN)**

- JRN 201 Journalism Newswriting.** (3 F S S) Writing news for the print media. Prerequisites: MCO 110 or 120, successful completion of English proficiency requirement demonstrated by a score of 30 words per minute. *General Studies L1*
- JRN 301 Reporting.** (3 F S) Fundamentals of news gathering, interviewing, and in-depth reporting. Prerequisites: JRN 201 major. *General Studies L2*.
- JRN 313 Introduction to Editing.** (3 F S) Copyediting and headline writing. Electron editing on personal computer terminal. Prerequisites: JRN 301 major.
- JRN 351 Photojournalism I.** (3 F S) Taking, developing and printing pictures for newspapers and magazine production on a media dead-line basis. Students should have their own cameras. Prerequisite: JRN 201 or instructor approval.
- JRN 401 Public Relations Techniques.** (3 F S) Theory and practice of publicity, public relations, and related techniques and procedures. Prerequisites: JRN 301 or TCM 315, major.
- JRN 412 Editorial Interpretation.** (3 N) The press as an influence on public opinion. The role of the editor in analyzing and interpreting current events. Prerequisite: JRN 301
- JRN 413 Advanced Editing.** (3 F S) Theory and practice of newspaper editing layout and design, picture, and story selection. Prerequisite: JRN 313
- JRN 414 Business and Industrial Publications.** (3 F S) Theory and practice of layout, typography and design for magazines, brochures and industrial publications. Prerequisite: JRN 401

**JRN 415 Writing for Public Relations.** (3 F S) Development of specific writing techniques for the practitioner in public relations agencies and divisions of major organizations. Prerequisite: JRN 401

**JRN 417 Public Relations Campaigns.** (3 F) Theory, principles, and literature of public relations and how they relate to audiences, campaigns, and ethics. Prerequisites: JRN 401, 415; instructor approval

**JRN 420 Reporting Public Affairs.** (3 F S) Instruction and assignments in reporting the courts, schools, government, city hall, social problems, and other areas involving public issues. Prerequisite: JRN 301

**JRN 440 Magazine Writing.** (3 F S) Writing and marketing magazine articles for publication. Prerequisite: JRN 301 or instructor approval.

**JRN 451 Photojournalism II.** (3 F, S) Theory and practice of photojournalism with emphasis on shooting, editing, and layout for the media. Prerequisite: JRN 351

**JRN 452 Photojournalism III.** (3 F S) Advanced theory and practice of photojournalism with emphasis on the photo essay and illustrations in black and white and color. 2 hours lecture, 2 hours lab. Prerequisite: JRN 451.

**JRN 465 Precision Journalism.** (3 S) An advanced writing course with focus on reporting polls and surveys and other numerical-based stories as well as on understanding the concepts that underlie polls and surveys. Lecture/lab. Prerequisite: JRN 301 or instructor approval

**JRN 470 Depth Reporting.** (3 F, S) The course is designed to introduce students to strategies for writing in-depth newspaper or magazine articles. Lecture/lab. Prerequisites: JRN 301; professional status; instructor approval

**MASS COMMUNICATION (MCO)**

- MCO 110 Introduction to Communication.** (3 F, S, SS) Organization, function and responsibilities of the media and adjunct services. Primary emphasis on newspapers, radio, television and magazines. Not open to students with credit for MCO 120
- MCO 120 Media and Society.** (3 F S) Role of newspapers, magazines, radio, television and motion pictures in American society. Not open to students with credit for MCO 110. Designed for nonmajors. *General Studies SB*
- MCO 402 Communications Law.** (3 F, S, SS) Legal aspects of the rights, privileges, and obligations of the press, radio, and television. Prerequisite: 70 earned semester hours. *General Studies: L2*.
- MCO 418 History of Communications.** (3 F, S) American journalism from its English and colonial origins to the present day. Development and influence of newspapers, magazines, radio, television, and news gathering agencies. *General Studies SB, H*

**MCO 421 News Problems.** (3) S

Trends and problems of the news media, emphasis on editorial decisions in the processing of news. Prerequisite: 9 hours of mass communication on/journalism telecommunication courses or instructor approval

**MCO 430 International Communication.** (3) F S

Comparative study of communication and media systems information gathering and dissemination under different political and cultural systems *General Studies: G*.

**MCO 450 Visual Communication.** (3) F S, SS

Theory and tradition of communication through the visual media with emphasis on the continuity of traditions common to modern visual media *General Studies: HU*

**MCO 456 Political Communication.** (3) F S  
Theory and research related to political campaign communication. The persuasive process of political campaigning, the role of the media, the candidate and image creation *General Studies: SB*

**MCO 460 Race, Gender, and Media.** (3) S  
Reading seminar designed to give students a probing examination of the interface between AHANA Americans and the mass media in the United States *General Studies: C*

**MCO 463 Introduction to Media Statistics.** (3) F S

An introduction to statistical analysis as applied to the mass media. Prerequisite: professional status in Broadcasting or Journalism

**MCO 501 News Writing and Reporting.** (3) F  
Designed for graduate students in the MMC program who have undergraduate degrees in nonjournalism areas. Objectives: to teach fundamental aspects of writing and reporting. Lecture/lab. Prerequisite: acceptance into M.M.C. graduate program

**MCO 503 Press Freedom Theory.** (3) S  
Examination of philosophical and legal aspects of press freedom. Emphasis on First Amendment theory evolution from 1791 to present

**MCO 510 Research Methodology in Mass Communication.** (3) F, S

Identification of research problems in mass communication. Overview of questionnaire construction. Attention to survey historical content analysis experimental and qualitative research methods

**MCO 520 Mass Communication Theories and Process.** (3) F

Analysis of various theoretical models of mass communication with emphasis on the application of these theories to various professional communication needs.

**MCO 522 Mass Media and Society.** (3) S  
Mass media as social institutions, particularly interaction with government and public. Emphasis on critical and normative statements.

**MCO 530 Media Ethics.** (3) F

Ethical conventions and practices of print and electronic media as they relate to the government and private sectors of the society

**TELECOMMUNICATION (TCM)****TCM 200 Fundamentals of Radio-Television.** (3) F S SS

Structure of telecommunications in the United States: history, regulation, organization, with emphasis on broadcasting. Relationship to advertising research and government agencies. Prerequisites: MCO 110 or 120 successful completion of English proficiency requirement.

**TCM 201 Radio-Television Writing.** (3) F, S SS

Writing for electronic media: news and continuity. Prerequisites: MCO 110 (or 120) successful completion of English proficiency requirement demonstrated typing ability of 30 words per minute *General Studies: L1*.

**TCM 235 Production Techniques.** (3) F S SS

Introduction to basic concepts of audio and video production. Operation of portable cameras recorders microphones editing and postproduction equipment will be introduced. Prerequisites: TCM 200; successful completion of English proficiency requirement

**TCM 300 Advanced Broadcast News Writing.** (3) F S

Technique and practice in news writing for broadcast and cable applications. Prerequisite: TCM 201

**TCM 315 Broadcast News Reporting.** (3) F S

News and information practices of networks stations and industry. Practice in writing reporting, editing with emphasis on audio. Prerequisite: TCM 201 *General Studies: L2*

**TCM 330 Advanced Broadcast Reporting.** (3) F S

News and information practices of networks stations and industry. Advanced practice in writing, reporting and editing with emphasis on video. Prerequisite: TCM 300

**TCM 332 Broadcast Programming.** (3) F, S SS

Programming theory and evaluation: regulation, ethics and responsibilities and basics of audience psychographics and effects. Prerequisite: TCM 200

**TCM 336 TV Studio Production.** (3) N

Introduction of multi-camera production in the studio. Teamwork and group production are emphasized through assignments covering a variety of program types. Prerequisites: TCM 235 major in the Walter Cronkite School of Journalism and Telecommunication

**TCM 433 Broadcast Sales and Promotion.** (3) F S

Basics of electronic media marketing practices including commercial time sales techniques and radio/TV promotion fundamentals. Prerequisite: TCM 200.

**TCM 435 Cable TV and Emerging Telecommunication Systems.** (3) F S

Structures and utilization of cable, industrial and instructional television satellite, and videocassettes. Prerequisite: TCM 200

**TCM 437 Advanced TV Production.** (3) F, S  
Emphasis on individual production projects of the student's own conception and design utilizing studio, field and postproduction techniques. Prerequisite: TCM 235

**TCM 472 Broadcast Station Management.** (3) F S SS

Management principles and practices including organization procedures policies personnel problems and financial aspects of station management. Prerequisite: TCM 332

**TCM 475 Television Newscast Production.** (3) F, S

Writing reporting and production of the television newscast. The course serves as the capstone of the broadcast journalism emphasis. Prerequisite: instructor approval

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## School of Justice Studies

David Theo Goldberg

Director

(WILSON 331) 602/965-7682

[www.asu.edu/copp/justice](http://www.asu.edu/copp/justice)

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**REGENTS' PROFESSORS**

ALTHEIDE, PALUMBO

**PROFESSORS**

CAVENDER, F GUEIRA McDONOUGH,

GOLDBERG, HAYNES, HEPBURN

JOHNSON, JURK, LAUDERDALE,

MUSHENO SCHNEIDER, ZATZ

**ASSOCIATE PROFESSORS**

BORTNER, LUJAN, SCHADE

**ASSISTANT PROFESSORS**

BERNSTEIN, LYNCH,

MENJVAR, RIDING N

**MISSION STATEMENT**

Students pursuing the B.S. in Justice Studies will find an interdisciplinary classroom experience emphasizing ideas from the social sciences, philosophy, and legal studies. The degree is designed for students interested in studying issues of justice and those desiring justice related careers, including law. Students will develop an understanding of the meaning of justice and injustice, both descriptive and normative, and analyze often controversial issues through critical inquiry and social science investigation. The faculty primarily focuses on theories of justice and injustice. Students accordingly learn about conflict and its negotiation, crime and violence, adolescents and delinquency, punishment and alternatives to punishment, and differential institutional and socioeconomic treatment of populations based on gender, race,



class, and ethnic identities, including American Indian peoples.

The heart of any university program is its faculty. The School of Justice Studies boasts a faculty with strong scholarly credentials. Faculty members include national and local award recipients in research, teaching, and public service. The faculty is committed to challenging students to develop their own understandings of justice, to analyze critically, and to propose possible solutions to a wide variety of contemporary issues concerning social justice.

While completing the Justice Studies curriculum, students will encounter opportunities to develop transferable skills, including critical thinking, oral and written discourse, computer literacy, and problem solving. Faculty encourage students to practice justice through various experiential approaches, including volunteer work, service learning, and internships. Students actively engage in their education via discussion, cooperative learning, field trips, and case-based classroom formats.

**ADMISSION**

The B.S. degree in Justice Studies is an upper division program. Upon admission to the university, Justice Studies students are classified as premajors. Justice Studies students must earn major status before taking 400 level JUS resident credit courses required for graduation.

Justice Studies students may achieve major status by:

1. meeting the College of Public Programs major status admission requirements (see page 405), and
2. completing all of the following classes with a 2.50 minimum average GPA and a minimum grade of "C" in each

ENG	101, 102	First Year Composition . . . . .	6
		or ENG 105	
		Advanced First Year Composition 3	
JUS	105	Introduction to Justice Studies . . . . .	3
		or JUS 305 Principles of Justice Studies 3	
JUS	301	Research in Justice Studies . . .	3
JUS	302	Basic Statistical Analysis in Justice Studies V2 . . .	3
JUS	303	Justice Theory . . . . .	3
		College of Public Programs writing competence requirement	3

For Justice Studies students to take a non required 300 level JUS course, they must have at least a "C" in each of the JUS required courses JUS 105 (or 305), 301, 302, and 303 and a minimum average GPA of 2.50 for these four classes.

For non Justice Studies students to take a 300 level JUS course, they must have a minimum of 56 earned semester hours (junior status) and a minimum cumulative GPA of 2.00. Non Justice Studies students are ineligible to take JUS 301, 302, and 303

For non-Justice Studies students to take a 400 level JUS course, they must have a minimum of 56 earned semester hours (junior status) and a minimum cumulative GPA of 2.50.

**ADVISING**

Justice Studies students admitted as premajors are advised by the school's academic advisor. All students are encouraged to seek advising in order to formulate an appropriate educational plan. Justice Studies majors may also be advised by the school's faculty.

Upon admission to the university, every Justice Studies undergraduate receives the *Undergraduate Advisement Guide* and an evaluation of transfer work, if any. For further information, contact the school's advising office at 602 965 7727

**DEGREES**

**Justice Studies—B.S.**

The curriculum for the B.S. degree in Justice Studies provides interdisciplinary social science courses relevant to law and justice for students working in the justice field, students anticipating justice related careers (including the legal profession), and interested non Justice Studies students.

**JUSTICE STUDIES MINOR**

The minor is designed for students interested in developing an understanding of meanings of justice and injustice and analyzing often controversial issues through critical inquiry and social science investigation.

Fifteen hours of course work in Justice Studies is required, including JUS 105 or 305 and JUS 303. A minimum of nine hours must be resident credit at ASU Main Campus, six hours of which must be upper division credit. Students must receive a minimum grade of "C" for all courses in the minor and meet a

course eligibility requirements, including prerequisites. Please consult the minor verification form available in the school office.

**DEGREE REQUIREMENTS**

The faculty in the School of Justice Studies awards a B.S. degree upon the successful completion of a curriculum consisting of a minimum of 120 semester hours including the university General Studies requirement, College of Public Programs requirements, justice studies courses, and electives. Additionally, the student must

1. earn major status;
2. earn a minimum of 45 semester hours of upper division courses,
3. complete the school's minimum residency requirement of 24 semester hours (see the *Undergraduate Advisement Guide*);
4. earn a grade of "C" or higher in all justice studies courses taken at ASU that apply to the justice studies component of the curriculum (i.e., nonelectives), and
5. meet the university's residency and scholarship requirements

**GENERAL STUDIES REQUIREMENTS**

To assure the breadth and depth of their education, all Justice Studies undergraduates must complete the university General Studies requirement and additional fundamental requirements prescribed by the College of Public Programs and the School of Justice Studies. For descriptive information on these requirements, refer to "General Studies" on pages 84-87 and "University Graduation Requirements" on pages 79-83. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses

**MAJOR REQUIREMENTS**

Justice Studies students are required to take one sociology course, one behavioral psychology course, and one political science course dealing with the American government system chosen from POS 110, POS 270, POS 310, or equivalent. These courses apply to the social and behavioral sciences core area of the general studies requirement.

The required justice studies component consists of 51 semester hours, of which 15 must be taken in a related

field approved by the school. The following courses are required for all degree candidates. Equivalent courses may be substituted when appropriate.

JUS 105	Introduction to Justice Studies	3
	or JUS 303 Principles of Justice Studies	3
JUS 301	Research in Justice Studies	3
JUS 302	Basic Statistical Analysis in Justice Studies	3
JUS 303	Justice Theory	3
Total		12

Through advising, a group of justice studies courses may be recommended to ensure a comprehensive exposure appropriate to the student's interests.

**Electives.** Students are encouraged to utilize the unique opportunities afforded by the university to pursue personal and educational interests, whether in the form of a broad sampling of other disciplines or the deeper probing of a single field.

**Transfer of Community College Credits.** Credits transferred from accredited community colleges are accepted as lower division credits up to a maximum of 64 semester hours. The acceptance of credits is determined by the director of Undergraduate Admissions and the utilization of credits toward degree requirements is determined by the faculty of the School of Justice Studies.

**American Indian Justice Studies Certificate Program.** The American Indian Justice Studies Certificate Program is a cooperative effort between the School of Justice Studies and other ASU departments. This interdisciplinary program is designed to provide a comprehensive and practical program of study for undergraduate students who want to study and work with American Indians.

The program recognizes the need for training American Indian and non-Indian students for employment and leadership roles in American Indian government in state and federal agencies, in education programs, and in urban and Indian community programs.

To earn the certificate, students must complete four required and two elective courses and an internship. The program is open to all ASU undergraduate students. For more information, call 602-965-7682.

**GRADUATE PROGRAMS**

The faculty in the School of Justice Studies offer a M.S. degree in Justice Studies, and Concurrent M.A. in Anthropology and a M.S. in Justice Studies. For more information on courses, faculty, or programs see the *Graduate Catalog*.

**JUSTICE STUDIES (JUS)**

**JUS 100 The Justice System.** 3 F S SS  
Overview of the justice system. Roles of law enforcement personnel, the courts, and corrections agencies. Philosophy and theoretical views. Historical perspective. *General Studies SB*

**JUS 105 Introduction to Justice Studies.** 3 F, S, SS  
Introductory overview to the study of justice from a social science perspective. Primary topics include justice theories and justice research. Not open to students with credit in JUS 305. This course appropriate for freshmen and sophomores. Lecture/discussion.

**JUS 180 Introduction to American Indian Justice Studies.** 3 F 1999  
Introduction to the study of American Indian justice issues from an interdisciplinary perspective. Primary topics include sovereignty, law and culture. *General Studies C*

**JUS 200 Topics in Concepts and Issues of Justice.** 3 F S SS  
Use of critical thinking skills to analyze and comprehend controversial social issues e.g. abortion, affirmative action, capital punishment, the fat tax, and immigration. May be repeated for credit with different titles. Lecture/discussion. *General Studies SB*

**JUS 280 American Indian Law and Society.** 3 F S SS  
Examines the sovereign status of American Indians and legal relationships between the tribes and the U.S. government. Lecture, student evaluated presentation. *General Studies C*

**JUS 294 Special Topics.** 1-3 F S, SS  
Topic chosen from various fields of justice studies.

**JUS 301 Research in Justice Studies.** 3 F S SS  
Focuses on developing a graduate-level research design, data collection, and the relationship between validity and reliability. Methods for conducting research are also stressed. Prerequisite: Justice Studies student.

**JUS 302 Basic Statistical Analysis in Justice Studies.** 3 F S SS  
Introduction to the fundamentals and application of descriptive and inferential statistics with emphasis on the justice area. Prerequisite: Intermediate algebra or higher. *General Studies N2*

**JUS 303 Justice Theory.** 3 F S SS  
An examination of classic and contemporary philosophies and theories of justice including legal, social, and criminal justice. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 305 Principles of Justice Studies.** (3 F S SS)  
Introductory overview to the study of justice from a social science perspective. Primary topics include justice theories and justice research. Not open to students with credit in JUS 105. This course is appropriate for juniors and seniors. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 306 Police and Society.** 3 F S, SS  
Focuses on community policing, critical inquiry of administrative decisions on making, perspective on police training, street practices, urban policing. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 308 Courts and Society.** 3 F S, SS  
History and development of courts. Relationship between dispute resolution mechanisms and cultural social structure processes in which they are embedded. Lecture/discussion: cooperative learning, case analysis. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 310 Corrections and Justice.** 3 F S, SS  
Examines the United States prison conditions on types of offenders, issues including drugs, gangs, drunk driving, racial discrimination, and "intermediate" punishments. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 311 Crime, Prevention, and Control.** 3 F S, SS  
Prevention and control of crimes examined by a review of contemporary theories, justice agency procedures, and social policies. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 320 Community and Social Justice.** (3) F S, SS  
Definitions of community will be discussed and analyzed. Impact of environment on behavior, promises of community organization for social empowerment. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 321 Wealth Distribution and Poverty.** 3 F  
Examination of wealth and income distribution in the United States and analysis of deontology and political forces producing an increasing unequal society. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417. *General Studies C*

**JUS 329 Domestic Violence.** 3 F S, SS  
Legal, historical, the reticent and treatment aspects of domestic violence including child abuse, woman battering, incest, and marital rape. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417.

**JUS 335 Organized Crime.** 3 F S  
The nature of organized crime and its legal activities, theories of containment and efforts by justice agencies to counter its dominance in society. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 345 White Collar Crime.** 3 F S, SS  
Basic white collar concepts and categories, causes and effects, mechanisms and contexts of operation, social and criminal sociology responses. Lecture/discussion. Prerequisite: refer to e.g.b.ty statements on page 417

**JUS 360 Law and Social Control.** (3 F S SS)

Resolution of social issues through the application of law as an agent of social control. Nature sanctions and limits of law. Categories of law and schools of jurisprudence. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417. *General Studies SB*

**JUS 365 Substantive Criminal Law.** (3) F S SS

Crimes against persons, property, and society; egotistic analysis, primary appellate procedure, nonsubstantive criminal law issues, trial court determinations. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 368 Procedural Criminal Law.** (3) F S SS

Due process with respect to individual liberty, privacy, and government power. Emphasis on broad ideas of political and social theory. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 375 Crime and the Mass Media.** (3) F, S SS

A survey of the impact of mass media and popular culture on crime, police actions, and social policy. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 380 Contemporary Issues of American Indian Nations.** (3) F S SS

Examines the unique status of American Indian governments focusing on issues of sovereignty and legal jurisdiction. Prerequisite: refer to eligibility statements on page 417. *General Studies C*

**JUS 394 Special Topics.** (1-3) F S SS

Topics chosen from various fields of justice studies. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 404 Imperatives of Proof.** (3) F, S SS

Issues of evidence, uses of proof, establishment of fact and identity in the justice system. Lecture/discussion. Cooperative learning discussion. Prerequisite: refer to eligibility statements on page 417. *General Studies L2*

**JUS 410 Punishment: Logic and Approach.** (3) S

Analyzes forms of punishment, how and why they have changed. Areas include philosophy, history, and social structure of punishment. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 415 Gender and International Development.** (3) F S SS

Examines the ways in which international development is gendered as well as women's rights as human rights in both national and international arenas. Lecture/seminar. Prerequisite: refer to eligibility statements on page 417. *General Studies L2 G*

**JUS 420 Women, Work, and Justice.** (3) F, S SS

Examination of gender inequality in the workplace, including the nature of women's work, theoretical issues, and models for promoting gender justice at work. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 422 Women, Law, and Social Control.** (3) F S SS

An examination of socioeconomic and legal factors that are relevant to mechanisms of social control of women, including formal legal control and informal control through violence. Prerequisite: refer to eligibility statements on page 417.

**JUS 425 Race, Gender, and Crime.** (3) F S, SS

Critical examination of major theories, research findings, policies, and controversies concerning race, ethnicity, gender, and crime. Lecture/discussion on cooperative learning. Prerequisite: refer to eligibility statements on page 417.

**JUS 440 Administration and Justice.** (3) F S SS

Diversity issues, procedural justice, and service delivery relationships between state and economic forces, including processes of regulation, state administration apparatuses. Lecture, case analysis, cooperative learning, discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 450 Alternatives to Incarceration.** (3) F S SS

Investigation of various alternatives to incarceration, advantages/disadvantages, major issues, including net widening, cost effectiveness, risk assessment, community crime prevention. Lecture, research. Prerequisite: refer to eligibility statements on page 417. *General Studies L2*

**JUS 460 Feminism and Justice.** (3) F S SS

Explores feminist thought and critiques traditional political theories. Examines issues of racism, sexuality, and the law. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 463 Discretionary Justice.** (3) F S SS

Use of key issues/manipulations of discretion in legal system and other social institutions. Theoretical empirical linkages between discretion and discrimination, based on race, ethnicity, and gender. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417. *General Studies SB*

**JUS 469 Political Deviance and the Law.** (3) F S SS

An examination of the controversies created by political and deviant behavior, including a critical view of law as an agent of social control. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417. *General Studies: L2/SB, C*

**JUS 470 Alternative Dispute Resolution.** (3) F, S SS

Critical examination of the tenets of a mediated dispute resolution movement, exposure to the programs of ADR, including community and court-based. Lecture/cooperative learning field research. Prerequisite: refer to eligibility statements on page 417. *General Studies, L2*

**JUS 474 Legislation of Morality.** (3) F S SS

Addresses historical and contemporary issues related to social justice movements, law, and morality in a pluralistic society. Issues include AIDS, burlesque, homosexuality, poverty, prostitution, and racial discrimination. Prerequisite: refer to eligibility statements on page 417. *General Studies: L2*

**JUS 477 Youth and Justice.** (3) F S SS

Critical examination of youth-related justice issues, including economic justice, violence against youth, delinquency, and the juvenile justice system. Lecture/group work/field. Prerequisite: refer to eligibility statements on page 417. *General Studies L2 SB*

**JUS 480 Law, Policy, and American Indians.** (3) F, S, SS

In-depth study of how non-Indian laws and policies have impacted American Indian culture and tenure and sovereignty. Prerequisite: refer to eligibility statements on page 417. *General Studies C*

**JUS 484 Internship.** (3-6) F S SS

Assignments in a justice-related placement designed to further the student's integration of theory and practice. Internships are arranged through consultation of students with placements. Students must consult with the school for appropriate application and registration procedures. May be taken for a total of 12 semester hours of which a maximum of 6 are applied to the major. Prerequisites: major status. Justice Studies student.

**JUS 494 Special Topics.** (1-3) F S SS

Topics chosen from various fields of justice studies. Lecture/discussion. Prerequisite: refer to eligibility statements on page 417.

**JUS 498 Pro-Seminar.** (1-3) F S SS

Small group study and research for advanced students. May be repeated for credit up to a maximum of 9 hours, more than 3 applied to the major. Prerequisites: major status, minimum cumulative GPA of 3.00. Instructor approval.

**JUS 499 Independent Study.** (1-3) F S SS

Original study or investigation in the advanced student's field of interest under the supervision of a faculty member. May be repeated for credit up to a maximum of 6 hours. Application to the major. Readings, conferences, tutor assistance. Prerequisites: major status, minimum GPA in JUS courses of 3.00. Senior standing. Instructor approval.

**JUS 500 Justice Research Methods.** (3) F S, SS

Theories and methods of research with emphasis on development of designs most relevant to justice data and problems.

**JUS 501 Justice Theory.** (3)

Theories and philosophy of social economic political and criminal justice. Applications of theories to contemporary justice issues. Lecture/discussion.

**JUS 503 Crime and Social Causation.** (3) S

Theories of deviance and crime as they relate to social policies and specific response of the justice complex.

**JUS 509 Statistical Problems in Justice Research.** (3) F S

Methodological problems of research design and statistical methods specific to justice studies.

**JUS 510 Understanding the Offender.** (3) F

Survey of learning, personality, and biological theories of causation and the relevance to understanding criminal and delinquent behavior.

**NOTE.** For the General Studies requirement codes (such as L1, N3, C, and H) and courses, see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

**JUS 514 Justice Policy.** (3) F

Assessment of the politics of justice policy as well as an understanding of the basic tools available to social scientists for analyzing the formulation, implementation, and evaluation of justice policy.

**JUS 515 Comparative Justice.** (3) F, S

Focuses on justice, legality, and human rights cross-culturally, examining both theoretical and methodological issues. Seminar.

**JUS 520 Qualitative Theory and Data Collection.** (3) F

The basic theoretical rationale and perspectives for justice related qualitative research, e.g., symbolic interactionism. Techniques for data collection, e.g., ethnography and depth interviewing.

**JUS 521 Qualitative Data Analysis and Evaluation.** (3) S

Analysis of qualitative data, e.g., field notes, depth interview transcripts, document analysis, coding, and retrieval with a microcomputer; qualitative evaluation.

**JUS 542 American Indian Justice.** (3) F, S, SS

Designed to provide a broad overview of American Indian and Alaskan Native issues of justice and injustice in contemporary society.

**JUS 547 Program Evaluation.** (3) F, S, SS

Nature/role of program evaluation; types, program monitoring, impact and process assessment, evaluability assessment, methods, utilization, and politics of evaluation. Lecture, lab. Cross-listed as PAF 541. Pre- or corequisite: JUS 500 recommended.

**JUS 550 Alternatives to Incarceration.** (3) F, S, SS

Investigation of various alternatives to incarceration; advantages/disadvantages; major issues including net widening, cost effectiveness, risk assessment, community crime prevention. Lecture, research.

**JUS 560 Women, Law, and Social Control.** (3) F

Gender issues in the exercise of formal and informal mechanisms of social control, including economic, social, legal factors, both violent and nonviolent.

**JUS 570 Juvenile Delinquency.** (3) F

Study of delinquency, including causation theories, alternative definitions of delinquency, official statistics, and the critique and analysis of the interaction between social institutions and youth.

**JUS 571 Juvenile Justice System.** (3) S

Graduate-level introduction to juvenile justice system, including historical development, philosophical orientation, organizational structure, and contemporary controversies.

**JUS 579 Political Deviance.** (3) F

The seminar examines the politics of deviance by integrating the study of conflict with aspects of social organization, especially state formation.

**JUS 584 Internship.** (3 or 6) F, S, SS

Assignments in a justice agency designed to further the student's integration of theory and practice. Placements are arranged through consultation with students and agencies.

**JUS 588 Justice and the Mass Media.** (3) F, S, SS

An analysis of the nature and impact of mass media messages about justice concerns for social order. Lecture, discussion.

**JUS 591 Seminar.** (1-3) F, S, SS

Topics chosen from various fields of justice studies. May be repeated for credit.

**JUS 610 Law and the Social Sciences.** (3) S

Analysis of the theoretical grounds underlying diverse studies of law and society; creation and administration of law; and jurisprudence and politics.

**JUS 620 Justice Research and Methods.** (3) F

Concept development, research design, data collection strategies, legal research, and building computer databases relevant to the study of justice.

**JUS 630 Data Analysis for Justice Research.** (3) F

Bivariate and multivariate techniques of data analysis and hypothesis testing for justice-related research and use of information and statistical programs.

**JUS 640 Theoretical Perspectives on Justice.** (3) F

Analysis of philosophical perspectives of justice; linkages between social science theory and justice constructs; application of justice to social issues.

**JUS 669 Political Trials and Indigenous Justice.** (3) S

Focuses upon research on political trials, deviance, and conceptions of indigenous and contemporary justice. Lecture, discussion.

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## School of Public Affairs

Dickinson McGaw

Director

(WILSN 208) 602/965-3926

[www.asu.edu/copp/publicaffairs](http://www.asu.edu/copp/publicaffairs)

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**PROFESSORS**

CAYER, COOR, HALL, MANKIN,  
McGAW, MONTIEL,  
PERRY, WESCHLER

**ASSOCIATE PROFESSORS**

ALOZIE, BROWN, DeGRAW,  
LAN, VINZANT

**ASSISTANT PROFESSORS**

CAMPBELL, McCABE

**DISTINGUISHED RESEARCH**

FELLOW

PFISTER

**GRADUATE PROGRAM**

The faculty in the School of Public Affairs offer a 42-semester-hour professional Master of Public Administration (M.P.A.) degree. The M.P.A. degree is accredited by the National Association of Schools of Public Affairs and Administration (NASPAA). The school also offers an interdisciplinary degree leading to the Doctor of Public Administration (D.P.A.). Consult the *Graduate Catalog* for information about these programs.

**PUBLIC AFFAIRS (PAF)****PAF 401 Statistics.** (3) F, S

Survey of statistical concepts and techniques with application to public administration. Does not count toward program of study. Satisfies statistics prerequisite requirement for PAF 501 and 502.

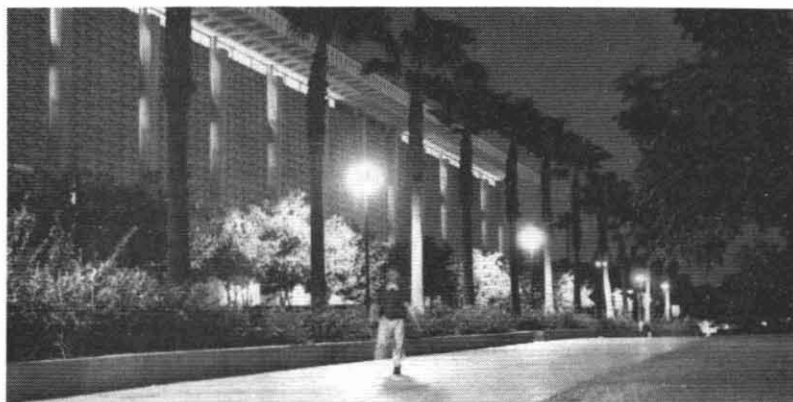
**PAF 501 Public Service Research.** (3) F, S  
Philosophy, scope, methods, design values, and ethics of public service research. Prerequisite: an approved course in statistics.

**PAF 502 Public Program Analysis.** (3) F, S  
Application of research methods and techniques to evaluate the implementation of decisions in public organizations. Prerequisite: PAF 501.

**PAF 503 Public Affairs.** (3) F, S

The development and context of American public administration and policy, the role of administration in governance, and values and ethics in administration.

**PAF 504 Public Affairs Economics.** (3) F, S  
The basics of public sector economics, microeconomic and macroeconomic concepts applied to public sector decisions and policies.



Hayden Library, which houses 3 million volumes, as seen at night.

Tim Trumble photo

**PAF 505 Public Policy Analysis** 3 F S  
Institutional and formal analysis of policy processes decisions making and problem solving values, ethics and the uses of policy analysis

**PAF 506 Public Budgeting and Finance.** 3 F S  
The legal social economic political, institutional, and ethical foundations of government financial budgets and budgeting Prerequisite PAF 504

**PAF 507 Public Human Resource Management.** 3 F S  
Personnel systems behavior and management of people in public organizations collective behavior and organizational management motivation productivity and ethics

**PAF 508 Public Service** 3 F S  
Capstone application of core course knowledge, skills and abilities required for public service Prerequisites PAF 501 502 530 504 505 506 507

**PAF 510 Governmental Budgeting.** 3 N  
Theories applications and consequences of budget decisions making Prerequisite PAF 504.

**PAF 511 Governmental Finance.** 3 N  
Sources of funding management of funds and debts, and general pattern of expenditures in states counties cities and districts Prerequisite PAF 504

**PAF 520 Public Management.** 3 A  
The management process in government and public agencies with emphasis on the executive leadership within the public sector

**PAF 521 Organization Theory.** 3 N  
Organization theory and current research emphasis with application to public administration and organizations

**PAF 522 Public Labor Relations.** 3 N  
Role of public unionism managerial policy toward unionism conflict resolution impact of unionism on budgets personnel policies and public policy

**PAF 523 The City and County Manager.** 3 N  
The manager's role and resources in the different forms of administrative, and community sectors

**PAF 525 Public Program Management.** 3 N  
Governmental service programming formulation, financing operating, evaluating and reporting Analysis of interagency relationships and the role and conduct of research in the programming process

**PAF 526 Public Sector Human Resource Development.** 3 N  
Concepts and techniques of organizational development in the public sector including staffing supervision training executive development resource planning and employee training

**PAF 529 Organization Change and Development.** 3 N  
Exploring the nature and management of change and development as a tool to achieve organizational goals effecting planned change

**PAF 530 Management of Urban Government** 3 N  
Administrative practice and behavior within the urban political administrative environment Functional areas such as citizen participation urban planning urban transportation, and the conflict between urban political administration and administrative efficiency

**PAF 531 Community Conflict Resolution.** 3 N  
Interdisciplinary approach to understanding the dynamics of community conflict Strategic considerations in policy design and advocacy present a reaction to conflict Relevant models and research findings generated by both case studies and comparative methods

**PAF 532 Urban Planning Administration** 3 N  
Historical and present day uses of urban planning and procedures for its implementation on Basic principles and practices

**PAF 533 Urban Growth Administration.** 3 N  
Examine the process of urban growth and change Partnerships represented by public and private sectors in management are emphasized.

**PAF 535 Urban Housing Policy.** 3 N  
Comprehensive consideration of the evolution of American cities with major emphasis upon the housing process and related institutions and services

**PAF 536 Urban Policy Making.** 3 N  
Analysis of the priorities and costs of financing public policy and the roles of office and bureau rate decisions making

**PAF 540 Advanced Policy Analysis.** 3 A  
Emphasizes the structure of policy problems forecasting policy alternatives optimizing resources and reducing uncertainty in policy making Prerequisite PAF 505 instructor approval

**PAF 541 Program Evaluation.** 3 N  
Various methodologies available for the evaluation of public policies and programs Cross listed as JUS 547 Prerequisite PAF 501 or instructor approval

**PAF 546 Environmental Policy and Management** 3 N  
Analysis of environmental policy and planning issues and policies related to the analysis and management of natural and urban/recreational resources.

**PAF 547 Science, Technology, and Public Affairs.** 3 N  
The influence of science and technology in governmental policy making scientists as administrators and advisors governmental policy making for science and technology government as a sponsor of research and development

**PAF 548 Women, Politics, and Public Policy.** 3 N  
Explores how political philosophy politics and public policy affect and are affected by women

**PAF 549 Diversity Issues and Public Policy.** 3 N  
Examination of public policy issues concerning or affecting women black Latino Asian and American Indian communities as well as those groups' impact on the policy process

**PAF 550 Information Management.** 3 N  
Concepts and theory of information and information technology in public sector organizations

**PAF 551 Computers in Administration.** 3 N  
Experience self-computerize help for public administration problem solving

**PAF 552 Public Information Systems** 3 N  
Systems analysis concepts and theory as applied to administration Alternative modes of information organization and their impact to public decision making

**PAF 555 Research Data Management.** 3 N  
Techniques and problems associated with data management in a research environment Data base management systems security and integrity accessibility and cost

**PAF 556 Database Management Systems.** (3 N)  
Concept and use of modern database management systems administrative organization Advantages and disadvantages of this approach

**PAF 561 Comparative Administration.** 3 N  
Literature in comparative public administration on theory Bureaucracies and the impact on the political development process Selected nations are studied

**PAF 562 Intergovernmental Relations.** 3 N  
Evolution of growth present status and characteristics of the US federal system of government Federal state relations, state local relations regionalism councils of government interstate cooperation grants and revenue sharing

**PAF 563 Report Preparation.** 3 N  
Intensive practice in written and oral presentation of reports to conferences with problems in public administration Visual aids techniques

**PAF 564 Political Economy.** 3 S  
Classical and contemporary literature a historical development of governmental and economic arrangement with special emphasis on the role of the state

**PAF 591 Seminar.** 1 12 F S  
Topics may include but are not limited to the following

- a Business and Government
- b Emergency Management
- c General Public Administration
- d Information Management
- e Public Finance Administration
- f Public Management
- g Public Policy Analysis
- h Urban Affairs and Urban Planning

**PAF 600 Research Design and Methods.** (3) A  
Advanced methods of research design and analysis Prerequisites former graduate level coursework in statistics and in research methods

**NOTE** For the General Studies requirement, courses such as 1 N3, C, and H and courses see pages 84-108 For graduation requirements see pages 79-83 For optional courses offered but not listed in this catalog see pages 56-57

**PAF 601 Seminar: Policy Analysis and Program Evaluation.** 3 A  
 Normative and conceptual issues for methodology, implementation, and evaluation on empirical approaches and methods of program evaluation and policy analysis

**PAF 602 Seminar: Foundation of Public Administration.** 3 A  
 Ethical, social, legal and philosophical foundations of public administration

**PAF 603 Seminar: Organization and Behavior in the Public Sector.** 3 A  
 Structure, organization, conduct and performance of public sector institutions in the administrative process. Prerequisite: PAF 602

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## Department of Recreation Management and Tourism

**Carlton F. Yoshioka**  
*Chair*  
 (MOEUR 131) 602/965 7291  
[www.asu.edu/copp/recreation](http://www.asu.edu/copp/recreation)

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### PROFESSORS

ALLISON HALEY, YOSHIOKA

### ASSOCIATE PROFESSORS

TEYE VARDEN

### ASSISTANT PROFESSORS

ASHCRAFT, BAKER, SCHNEIDER,  
 SONMEZ VOGT

### DEPARTMENTAL MAJOR REQUIREMENTS

To be officially admitted with professional status to the B.S. degree program in Recreation, students must

1. meet the College of Public Programs major status admission requirements (see page 405).
2. complete REC 120 and 210 with a grade of "C" or higher;
3. complete either COM 225, 241, or 259; and
4. tourism students must also have a "C" or higher in ECN 112

Transfer students who have completed 36 semester hours or more at another institution must remove any of the above course or scholastic deficiencies before being admitted with professional status to the B.S. degree in Recreation.

Students must complete the university General Studies requirement and the College of Public Programs course requirements in addition to major requirements. General Studies courses may not be used concurrently toward the General Studies requirement and related requirements within the major core.

### RECREATION—B.S.

The B.S. degree program in the Department of Recreation Management and Tourism centers upon the systematic study of leisure related phenomena including human behavior and development, resource use, environmental and social issues, and public policy. It is a professional program that features full exposure of students to a multifaceted concept of leisure and the quality preparation of these students for professional level entry into leisure service occupations.

This multidisciplinary degree program is designed to provide the student with the competencies necessary for employment in management and program delivery positions in diverse leisure agencies such as municipal recreation and park departments, county park departments, YMCAs, YWCAs, Boys and Girls Clubs of America, and other nonprofit agencies, visitor and convention bureaus, senior centers, retirement communities, resorts, and other components of the tourism commercial recreation industry. Graduates have also been employed by state offices of tourism, state parks departments, and various federal recreation resource agencies.

### PROGRAM REQUIREMENTS

The 63 semester hour B.S. degree program in Recreation includes 33 semester hours of major core courses (see below). Students may select from two concentrations: 1) recreation management and 2) tourism. Students pursuing the recreation management concentration can further specialize in therapeutic recreation, community and urban recreation, outdoor recreation, or nonprofit/youth agency administration (American Humanities). In addition to the core, these concentrations consist of 15 semester hours of recreation related

courses and 15 semester hours of related areas courses. REC 330, 462, and 482 require professional status and must be taken in sequence. REC 463 is the final capstone course taken in the department.

### Recreation Major Core Courses

REC 120	Leisure and the Quality of Life <i>SB</i>	3
REC 210	Leisure Delivery Systems	3
REC 330	Programming of Recreation Services <i>L2</i>	3
REC 350	Promotion and Marketing Recreation Services	3
REC 364	Foundations of Therapeutic Recreation	3
REC 462	Management of Recreation Services	3
REC 463	Senior Internship	12
REC 482	Assessment and Evaluation of Recreation Services	3
Total		33

The tourism concentration consists of 33 semester hours of major core courses, nine semester hours of tourism related requirements, nine semester hours of tourism options, and 12 semester hours of nonmajor related course work.

Tourism students may choose to follow either the marketing and community development track or the services track for their related course work. Information on both of these tracks is available from the academic advisor.

In both the recreation management and tourism concentrations, the related areas and directed electives course work must be selected from a departmental list of approved university courses.

### Nonprofit/Youth Agency Administration: American Humanities Certificate Program.

In addition to the two concentrations within the B.S. degree program in Recreation, a certificate program is offered in the area of Nonprofit/Youth Agency Administration: American Humanities. This certificate program features professional affiliation with and certification by American Humanities, Inc., the national leader in education for youth and human service agency administration. American Humanities collaborates with such agencies as the American Red Cross, Big Brothers/Big Sisters, Boys and Girls Clubs of America, the Boy

**NOTE** For the General Studies requirement, codes (such as L1, N3, C, and H) and courses (see pages 84–108) For graduation requirements, see page 79–83. For omnibus courses offered but not listed in this catalog, see pages 56–57



Scouts of America, Camp Fire, the Girl Scouts of the USA, Habitat for Humanity, Junior Achievement, the United Way, YMCA, and YWCA

This program provides an academic approach featuring unique issues of voluntary, not for profit agency management and includes active participation by agency professionals who offer workshops, seminars, field trips, and experiential education experiences.

REC 220	Introduction to Nonprofit Youth and Human Service Agencies	3
REC 300	Fund Raising	3
REC 310	Volunteerism	3
REC 320	Youth and Human Service Workshops	4
REC 420	American Humanities Institute	12
REC 430	Management Not for Profit Agencies	3
Minimum total		17

**Additional Department Requirements.** Two hundred hours of recreation leadership experience (volunteer hours) are required before enrollment in REC 463 Senior Internship. Students are not permitted to take additional course work during their senior internship placement period. Approval of internships for main campus students must be received from the Department of Recreation Management and Tourism office on the main campus

A student must attain a grade of "C" or higher in all courses within the major, including the related area. Specific courses that may be used to fulfill the related requirements are listed in a brochure available through the department.

**MINORS IN RECREATION MANAGEMENT AND TOURISM**

The faculty in the Department of Recreation Management and Tourism offer two minors; one in Recreation Management and one in Tourism, consisting of REC 120 Leisure and Quality of Life, and 12 additional hours of upper division ASU Main credits taken from a list of approved courses. Please consult the minor verification form available in the department office.

**GRADUATE PROGRAM**

**M.S. in Recreation.** The curriculum for the M.S. degree in Recreation is designed to help students achieve both academic and professional goals. Areas of concentration include outdoor recreation, recreation administration, socia

psychological aspects of leisure, and tourism and commercial recreation. Students may complete a thesis or an applied project option. Information on the M.S. in Recreation is detailed in the *Graduate Catalog*.

**RECREATION (REC)**

**REC 120 Leisure and the Quality of Life.** (3) F S SS

Conceptual foundations for understanding the role of leisure in the quality of life. Sociological, psychological, cultural, economic and political foundations for play, recreation and leisure. *General Studies SB*

**REC 150 Outdoor Pursuits.** (3) SS

Theories and practical applications related to outdoor recreation pursuits. Interdisciplinary approach to wilderness issues and philosophy, cumulative learning in an outdoor experience. Field trip required

**REC 160 Leisure and Society.** (3) A

Analysis of the human relationship to leisure. Historical survey of philosophical, psychological and socioeconomic bases for development of systems that provide leisure programs. No recreation majors only. *General Studies SB*

**REC 210 Leisure Delivery Systems.** (3) F S

Introduction to development, management, and organization of the public, not for profit and private sectors of the leisure services profession. The course is organized into five modular units which study the delivery of services in the recreation and tourism professions. Lecture team taught. Prerequisite: Recreation professional status

**REC 220 Introduction to Nonprofit Youth and Human Service Agencies.** (3) F S

Introduction to the not for profit youth and human service sector and its role in the United States society, the economy and service delivery systems

**REC 300 Fund Raising.** (3) A

Methods, techniques and directed experience in fund raising for voluntary youth and human service agencies. Budget control and accountability

**REC 305 Introduction to Travel and Tourism.** (3) F S

An examination of the components of the travel and tourism industry at the state, national, and global levels. *General Studies G*

**REC 310 Volunteerism.** (3) A

Administrative and volunteer service programs. Study and analysis of the volunteer personnel process

**REC 315 Community Recreation Systems.** (3) S

Explores and assesses community recreation delivery systems in the United States. Prerequisite: REC 210

**REC 320 Youth and Human Service Workshop.** (1) F S

Forum for exchange between students and professional agency personnel. Variable topics, guest speakers. Prerequisite: instructor approval

**REC 325 Tourism Accommodations.** (3) A

Local, national, and international overview of the lodging and food service industries. Prerequisite: REC 305. Recreation major or minor

**REC 330 Programming of Recreation Services.** (3) F S

Foundations for effective program planning. Variables for effective systems. Prerequisite: Recreation professional status. *General Studies L2*

**REC 340 Outdoor Survival.** (3) A

Interdisciplinary approach to outdoor survival. Understanding of psychological stress, physiological stress, preparation on hypothermia navigation and wildlife. Field trips required

**REC 345 Meeting and Convention Planning.** (3) A

Basic aspects and skills in planning meetings and conventions. Industry and market overview of certified meeting planners. Prerequisite: REC 305

**REC 350 Promoting and Marketing Recreation Services.** (3) F S

Basic principles of promoting recreation services and strategies focusing on promoting and marketing concepts as they apply to recreation/tourism settings. Prerequisite: Recreation professional status

**REC 360 Recreation Resource Management and Policy.** (3) N

Management and decisions on making recreation resource agencies. Policy analysis and use conflicts. Prerequisite: Recreation major

**REC 364 Foundations of Therapeutic Recreation.** (3) F, S

Introduction to specialized recreation and therapeutic recreation services for persons with disabilities. Offers both a community and clinical perspective on specialized services. Prerequisite: Recreation professional status or instructor approval

**REC 370 Outdoor Recreation Systems.** (3) F

Introduction to outdoor recreation resource delivery systems, history of wilderness and outdoor recreation on resources, the role of outdoor recreation in society, outdoor recreation agencies related environmental issues. Prerequisite: junior standing or instructor approval

**REC 372 Tourism Planning.** (3) F, S

Application of economic and development concepts and theories to destination product development. Prerequisites: REC 305; Recreation major or minor

**REC 380 Wilderness and Parks in America.** (3) S

An examination of the American Conservation Movement and the relationships between the environment and recreation behavior. *General Studies SB H*

**REC 390 Adaptive Aquatics.** (3) SS

Focuses on delivery of aquatic programs for the mentally and physically handicapped. Lecture/lab

**REC 400 Processes and Techniques in Therapeutic Recreation.** (3) A

In-depth analysis of the theoretical and philosophical approaches to therapeutic recreation practice with emphasis on various factors on techniques used in therapy. Prerequisite: REC 364 or instructor approval

**REC 401 Program Design and Evaluation in Therapeutic Recreation.** (3) F S

In-depth analysis of assessment, treatment planning, program implementation, documentation and evaluation strategies employed in therapeutic recreation practice. Prerequisites: REC 364 and 400 or instructor approval

**REC 415 Tourism Transportation Systems.** (3) A

Examination of the role of various modes of transportation in domestic and international tourism development. Prerequisites: REC 305; Recreation major or minor.

**REC 420 American Humanics Institute.** (1–2) F, S

Mini-intensive national management institute for preparation of youth development and non-profit management staff. Lecture, out-of-state conference. May be repeated for credit. Prerequisite: instructor approval.

**REC 430 Managing Not-for-Profit Agencies.** (3) S

Analysis of administrative structure, decision making, and program delivery with not-for-profit youth and human service agencies.

**REC 440 Recreation Areas and Facilities Development and Management.** (3) A

Survey of development and management of public, private, and commercial recreation areas and facilities with a focus on meeting program needs.

**REC 450 Leisure and Aging.** (3) N

An exploration of the role of leisure in later maturity and the influence of the aging process on leisure behavior. Lecture, off-campus lab. Prerequisites: REC 210 and 364 or instructor approval.

**REC 458 International Tourism.** (3) F, S

A global examination of international tourism and its significance as a vehicle for social and economic development. *General Studies: G*

**REC 460 Clinical Issues in Therapeutic Recreation.** (3) A

An exploration of contemporary problems/issues confronting the therapeutic recreation field; includes philosophical, historical, practice, management, research, and educational issues. Lecture, off-campus lab. Prerequisites: REC 364 and 400 or instructor approval.

**REC 462 Management of Recreation Services.** (3) F, S

Basic principles of administration and their application in successful administrative situations. Analysis of administrative function, structure, and policies. Prerequisites: REC 330; Recreation professional status.

**REC 463 Senior Internship.** (6 or 12) F, S, SS

Supervised guided experience in selected agencies. Prerequisites: REC 462; Recreation major; senior standing.

**REC 470 Environment Interpretation and Education.** (3) F

Introduction to park interpretation and environmental education which includes theories, principles, and techniques.

**REC 480 Natural Resource Tourism.** (3) S

Examines the interaction of tourism with culture, natural environment, as well as the impacts of tourism on the environment.

**REC 482 Assessment and Evaluation of Recreation Services.** (3) F, S

Introduction to applied leisure research with an emphasis on program evaluation, research design, data collection techniques, and data analysis. Prerequisites: REC 330, 350; Recreation professional status.

**REC 494 Special Topics.** (1–3) F, S

Special topics selected by department faculty.

**REC 500 Research Methods I.** (3) A

Introduction to recreation research methods, with emphasis on methodological questions, research issues, and techniques relevant to contemporary social research. Prerequisite: 500-level or higher approved statistics course.

**REC 501 Research Methods II.** (3) N

Advanced treatment of methodological issues, analysis of data, computer applications, and thesis proposal development. Prerequisite: REC 500.

**REC 540 Recreation Services for the Aged.** (3) N

An applied orientation to the social/psychological theories of recreation and the aged.

**REC 552 Historical and Philosophical Foundations of Leisure.** (3) A

An analysis of the fundamental historical and philosophical concepts, issues, and problems confronting the leisure studies profession.

**REC 555 Social and Psychological Aspects of Leisure Behavior.** (3) A

An empirical and theoretical analysis of social, cultural, and psychological foundations of leisure behavior.

**REC 558 Integrative Seminar.** (3) A

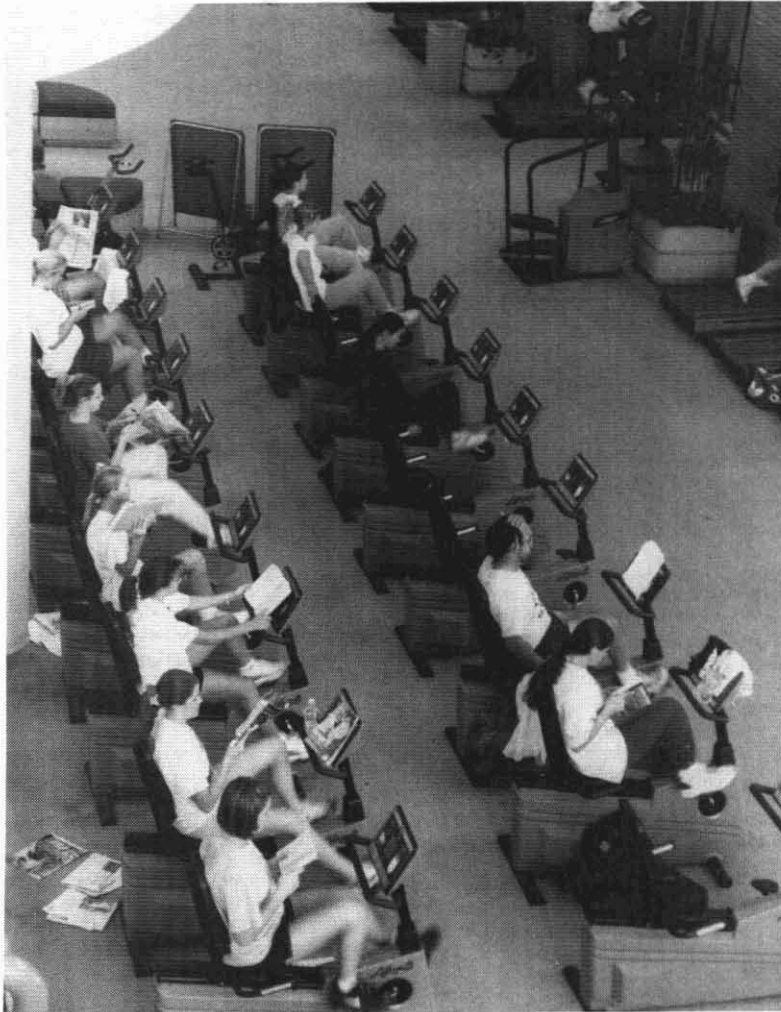
Advanced exploration and assessment of current trends within the leisure studies profession. This course has variable topics, including, but not limited to: cross-cultural analysis of leisure, urban recreation, planning and resources, sociocultural dimensions of tourism development, wilderness management. Prerequisite: REC 552.

**REC 569 Current Issues in Tourism.** (3) A

General survey of the tourism literature with an emphasis on relevant theories, concepts, and current research.

**REC 570 Social Aspects of Outdoor Recreation Management.** (3) A

An analysis of the social aspects of natural resource recreation management and planning. Prerequisite: REC 370 or equivalent.



The exercise bicycles in the Student Recreation Complex provide not only a great workout but a place to study as well.

Tim Trumble photo

# School of Social Work

**Emilia E. Martinez-Brawley, Ed.D.**  
Dean

## PURPOSE

The purpose of the School of Social Work is to prepare professional social work practitioners who are committed to the enhancement of individual family and group problem solving capacities and the creation of a more nurturing, just, and humane social environment.

The mission of the School of Social Work is the training of professional social workers for beginning level generalist practice (B.S.W.) and for clinical, administrative, and community practice (M.S.W.). The focus is on those populations who are most oppressed and most in need of social services. A special emphasis is placed on working with ethnic and racial minorities of the Southwest.

The school is committed to the university's mission to be competitive with the best public research universities in the country. Faculty members have active research agendas under way that venture into a wide variety of topics, including work with children, with drug and alcohol abusers, with the developmentally disabled, in human services planning, and in many other areas of interest.

## ORGANIZATION

The School of Social Work is organized around three program areas:

1. Bachelor of Social Work (B.S.W.);
2. Master of Social Work (M.S.W.), and
3. Doctor of Philosophy (Ph.D.) with a major in Social Work.

The M.S.W. program has two concentrations in the second year: (1) direct practice (DP) and (2) planning, administration, and community practice (PAC). In considering the PAC concentration, students need to be aware that, because of space availability, preference is given to individuals with significant previous experience.

For more information regarding the Masters and Ph.D. programs, see the *Graduate Catalog*.

## ADMISSION

### Bachelor of Social Work

The B.S.W. degree program is divided into the pre Social Work major and the Social Work major.

The pre Social Work major consists of freshman and sophomore students who have been admitted to the university and have declared Social Work as their major, as well as students transferring to the School of Social Work from other colleges within the university and other universities or junior colleges who have not completed the admission requirements to the program. Students transferring from other universities or community colleges as premajors should follow the procedure outlined on pages 63–64 of this catalog. Students transferring from other colleges within the university must obtain a Change of College form from the School of Social Work, Academic Services, WHALL 135.

### Admission Procedure for Social

**Work Majors.** This admission procedure is for students who have 54 semester hours or more and have taken SWU 271 Introduction to Social Work, 291 Social Service Delivery Systems, 301 Human Behavior in the Social Environment I, and 310 Social Work Practice I. Students wishing to enter the Social Work major are required to apply for admission to the program in addition to obtaining an official Certificate of Admission to the university. Students are eligible to apply for admission to the Social Work major during the last semester of the sophomore year. It is expected that applicants have completed 54 semester hours and the required social work courses by the end of the semester in which they are applying. Students are admitted to the major at the beginning of the term following the semester during which they apply.

Students may obtain a Social Work major application packet at the School of Social Work, Academic Services, WHALL 135, or request that one be mailed to their home address by calling 602/965-6081.

Applicants are reviewed for admission for the fall and spring semesters. Students applying must have a Certificate of Admission to the university in their files by November 1 for spring admission and March 1 for fall admission. All other application materials (i.e., application form, additional statement, and two letters of reference) must be returned to

SCHOOL OF SOCIAL WORK  
ACADEMIC SERVICES  
ARIZONA STATE UNIVERSITY  
PO Box 871802  
TEMPE AZ 85287-1802

Materials must be received by November 1 for spring admission or March 1 for fall admission. Failure to meet these deadlines may result in the applicant having to wait for the next admissions period. Applicants are notified by mail of the committee's decision. Those applicants who have been denied admission may request a conference with the program director to discuss the decision and to obtain guidance in the development of future plans.

**Criteria for Admission.** Admissions are based on the following criteria:

1. A minimum cumulative GPA of 2.00 is required.
2. A minimum cumulative GPA of 2.75 in core social work courses (SWU 271, 291, 301, and 310) and a grade of "C" or higher in all social work courses are required.
3. Lower-division General Studies requirements described by the university and as part of the B.S.W. program must be completed.
4. The applicant's educational and career goals must be compatible with the educational objectives of the school.
5. Before admission to the major, applicants are required to have a minimum of 240 hours of social work experience in human services. Voluntary, paid, and/or equivalent family personal experiences are acceptable.

6. References are required for each applicant. Two references from persons who have known the applicant in a professional capacity are to be submitted by the applicant. Additionally, a third reference is later requested by the school from the applicant's SWU 310 instructor. This reference is used in the field placement process.

Admission is selective and based on available resources. Not all students who meet minimum requirements are admitted to the program.

**Leave of Absence.** Occasionally, for health or personal reasons, Social Work majors find it necessary to interrupt their studies. Students considering such requests meet with an academic advisor to look at alternatives and then submit a written request to the Social Work program director. A student may request a leave of absence from the Social Work program for a period of one year. (This leave applies only to the Social Work program and not to the university. No leave of absence is granted from the university.) Except when recommended by the Committee on Academic and Professional Standards, the student must be in good standing in the program at the time the request is made. Students should be aware that nonattendance at the university for one or more semesters requires reapplication to the university. Failure to request a leave of absence by Social Work majors results in removal from the program.

**Readmission.** Undergraduate students (premajor and major) who have previously attended ASU but have not been

enrolled at this institution for one or more semesters are required to apply for readmission following university procedures as outlined on pages 69-70. Students who were previously Social Work majors may, in addition, be required to reapply for major status.

**Transfer Students.** The university standards for evaluation of transfer credit are listed on pages 63-64. Community college students planning to transfer at the end of their first or second year should plan their community college courses to meet the requirements of the ASU curriculum selected. Students attending Arizona community colleges are permitted to follow the degree requirements specified in the ASU catalog in effect at the time they begin their community college work, providing their college attendance is continuous. See pages 80-81, "Guidelines for Determination of Catalog Year."

Arizona students are urged to refer to the *Arizona Higher Education Course Equivalency Guide* for the transferability of specific courses from Arizona community colleges. Copies of the guide are available from Academic Services, WHALL 135. Courses transferred from community colleges are accepted as lower-division only. Students are urged to choose their community college courses carefully, in view of the fact there is a minimum number of hours of work taken at the university that must be upper-division credit (see "Credit Requirements," page 79).

Direct transfer of courses from other accredited institutions to the School of Social Work is subject to the existence of parallel and equal courses in the school's curriculum. Transfer credit is not given for courses in which the lowest passing grade ("D") or a failing grade ("E" or "F") was received.

Credit for "life experience" is not given in lieu of course requirements. A minimum of 30 semester hours earned in resident credit courses at ASU is required for graduation.

## ADVISING

Students are responsible for meeting the degree requirements and seeking advising regarding their program status and progress. Upon admission to the Social Work major, each student is as-



West Hall, home to the School of Social Work.

Tim Trumble photo

signed a faculty advisor who assists with career planning. The academic advisor assists students with program planning, registration, preparation of needed petitions, verification of graduation requirements, and referrals to university and/or community resources. Students must meet with an academic advisor before any registration transaction.

**DEGREES**

The school's undergraduate curriculum leads to a Bachelor of Social Work (B.S.W.) degree. The B.S.W. degree program is accredited by the Council of Social Work Education (CSWE). The principal objective of the undergraduate curriculum is to prepare students for beginning level generalist practice in social work. The program is also designed to prepare students for culturally sensitive practice and to provide preparation for graduate training in social work. During the freshman and sophomore years, students concentrate on obtaining a strong background in liberal arts and sciences and are classified as premajors until they are officially admitted to the major. Entrance into the Social Work major from the premajor is not automatic (see "Admission," pages 425-426).

Junior and senior Social Work majors focus on social work courses in research, social policy and services, social work practice, human behavior in the social environment, and field instruction in community agencies. In addition, majors take elective courses in related areas.

The B.S.W. level practitioner is seen as a generalist. The curriculum focuses on such roles as advocacy, case management, problem solving, and referral functions with individuals, groups, families, organizations, and the community.

**GRADUATE PROGRAM**

The faculty in the School of Social Work offer a Master of Social Work (M.S.W.) and a Ph.D. in Social Work. For more information on courses, faculty, and programs, see the *Graduate Catalog*.

**UNIVERSITY GRADUATION REQUIREMENTS**

In addition to fulfilling college and major requirements, students must meet all university graduation requirements. For more information, see pages 79-83

**General Studies Requirements**

All students enrolled in a baccalaureate degree program must satisfy a university requirement for a minimum of 35 semester hours of approved course work in General Studies, as described on pages 84-87

Note that all three General Studies awareness areas are required. Consult your academic advisor for an approved list of courses.

**COLLEGE DEGREE REQUIREMENTS**

All students enrolled in a baccalaureate degree program must satisfy School of Social Work degree requirements with additional course work chosen from among those courses that satisfy the General Studies requirement. General Studies courses are listed on pages 87-108 in the *General Catalog* following the section on "General Studies," in the course descriptions, in the *Schedule of Classes*, and in the *Summer Sessions Bulletin*

A well planned program of study may enable students to complete many General Studies and School of Social Work degree requirements concurrently. Students are encouraged to consult with an academic advisor in planning a program to ensure that they comply with all necessary requirements.

Specific courses from the following areas must be taken to fulfill the college degree requirements

*Numeracy.* School of Social Work students must complete a statistical analysis course (N2).

*Humanities and Fine Arts.* School of Social Work students must complete PHI 101 Introduction to Philosophy or PHI 306 Applied Ethics.

*Social and Behavioral Sciences.* The following courses are required:

- ECN 111 Macroeconomic Principles ... 3
- PGS 101 Introduction to Psychology .... 3

- POS 110 Government and Politics ..... 3  
or POS 310 American National Government (3)
- SOC 101 Introduction to Sociology ... 3  
or SOC 301 Principles of Sociology (3)

Total..... 12

*Natural Sciences.* School of Social Work students must complete a course in either human biology or anatomy and physiology.

**MAJOR REQUIREMENTS**

The School of Social Work awards a Bachelor of Social Work degree upon the successful completion of a curriculum consisting of a minimum of 120 semester hours. This includes all university requirements (see pages 79-83), including the General Studies requirement (see pages 84-87), as well as the School of Social Work degree requirements.

**Course Load.** A normal course load per semester is 15-16 semester hours. The maximum number of hours for which a student can register is 18 semester hours, unless an overload petition has been filed with and approved by the director of the undergraduate program.

Overload petitions are not ordinarily granted to students who have a cumulative GPA of less than 3.00 and who do not state valid reasons for the need to register for the credits. Students who register for semester hours, in excess of 18 and do not have an approved overload petition on file have courses randomly removed through an "administrative drop" action.

**Social Work Core Requirement**

- SWU 271 Introduction to Social Work I ..... 3
- SWU 291 Social Service Delivery Systems ..... 3
- SWU 301 Human Behavior in the Social Environment I L2/SB ..... 3
- SWU 310 Social Work Practice I ..... 3
- SWU 320 Research Methods in Social Work ..... 3
- SWU 340 Human Behavior in the Social Environment II SB ..... 3
- SWU 374 Diversity and Oppression in a Social Work Context C ..... 3

**NOTE** For the General Studies requirement codes (such as L1, N3, C, and H) and courses, see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

SWU 410	Social Work Practice II	3
SWU 411	Social Work Practice III	3
SWU 412	Field Instruction I	5
SWU 413	Field Instruction Seminar I	1
SWU 414	Field Instruction II	5
SWU 415	Field Instruction Seminar II	1
SWU 432	Social Policy and Services	3
SWU 442	Introduction to Practice with Children and Families in Child Welfare or SWU 444 Issues in School Social Work	3
Total		45

SWU 412 and 414 each require 16 hours weekly per semester in the field. Students must file an application for field work before registering for the courses.

No credit is granted toward fulfilling major core requirements in any course in the student's major unless the grade in that course is at least a "C"

### Electives

Students are required to take 37 semester hours of courses in areas related to social work. The practice model of the program is a social work generalist.

Each student is encouraged to consult with an academic advisor in selecting electives. Economics, education, psychology, and sociology are only a few of the academic units offering knowledge of value to the professional social work practitioner.

**Undergraduate Student Enrollment in Graduate Classes.** Undergraduate students at ASU in their senior year may enroll in a maximum of nine graduate semester hours in the School of Social Work, providing they have an overall GPA of 3.00 or higher at the time of enrollment and have secured the required signatures for approval. If a course is not used to meet an undergraduate graduation requirement, it may be eligible for use in a future graduate program on the same basis as work taken by a nondegree graduate student (see the *Graduate Catalog*)

**Field Instruction.** Field instruction for the B.S.W. program is offered concurrently with classroom study. Students are assigned to a social service agency and work under the supervision of a School of Social Work-approved social

work professional. Field instruction permits testing theory in practice and provides a base of experience for class discussions. Qualified agencies in several Arizona communities are utilized for field instruction.

B.S.W. students work in one placement for 16 hours a week, for a total of 480 hours over two semesters. In assigning the placement, the school takes into account the student's educational needs and career goals. Generalist social workers need to be familiar with the methods of working with individuals, families, and groups, as well as in organizations and communities and with all ages and ethnic groups. The faculty are committed to establishing the capabilities necessary for high quality, social work generalist practice.

B.S.W. field instruction agencies are located primarily in the Phoenix metropolitan area. Specially arranged, more distant placements may require up to a two hour drive. Although car pools are possible, personal transportation is strongly recommended while attending school.

### ACADEMIC STANDARDS

To remain in good academic standing, the student must maintain a minimum overall GPA of 2.00 (B.S.W.) at the end of each semester. Most courses in the program are sequential; successful completion of each course in the sequence is required to enroll in the following course.

### Retention and Disqualification

The following policies govern retention and disqualification.

**Probationary Status.** A student must maintain a minimum overall cumulative GPA of 2.00 (B.S.W.). A student is placed on probationary status automatically when (1) the GPA is less than the minimum at the end of any semester or (2) a grade of "D" or "E" is received for any major core requirement, regardless of the GPA.

Students may also be put on probation for reasons other than grades.

Probationary status requires completion of a plan written and signed by the student and faculty advisor, with copies for the student, faculty advisor, program director, field director, and

file that indicates when and how deficiencies will be met. This plan must contain a provision to bring the GPA up to minimum standards by the end of the succeeding semester or at the completion of 12 hours of letter graded course work, whichever comes later. Probationary students may be denied registration in the absence of such a plan.

Once a Social Work student is on academic probation, the student remains in that status until the overall GPA reaches the retention level (2.00 [B.S.W.]) or until the student is disqualified from the university.

**Termination from the Program.** A student is terminated from the program under any one of the following circumstances:

1. A student fails to carry out the plan developed during a probationary semester.
2. A B.S.W. student receives an "E" grade (failure) in field practicum.
3. A B.S.W. student does not accept or is not accepted by three or more field agencies if, in the judgment of faculty and field staff, the placements can provide appropriate field experiences without undue inconvenience to the student.
4. The student does not adhere to professional expectations and standards (see the *ASU Student Code of Conduct*, *National Association of Social Workers Code of Ethics*, and *CSWE Curriculum Policy Statement*).
5. A student appears to lack the degree of physical or mental health necessary to function successfully as a social worker. Such a student may be required to undergo a medical examination and make the results available to the Committee on Academic and Professional Standards of the School of Social Work. The responsibility for reviewing and determining the qualification of students whose behavior or performance are in question is vested in this committee. The committee's decision may require the dismissal or disqualification of a student from the program.



**Reinstatement.** A disqualified student who desires to be reinstated may submit an application for reinstatement. A disqualified student normally is not reinstated until at least one semester has elapsed from the date of disqualification. The burden of establishing fitness is on the disqualified student, who may be required to take aptitude tests and submit to other examinations before being readmitted.

**Continuous Evaluation.** While students are subject to the university's general retention policy, they are evaluated in the school on broader criteria than mere GPA. Students are reviewed for evidence of competency in social work and are continuously evaluated as they progress in the program. Prospective Social Work candidates who do not meet the established criteria are guided toward a program that is compatible with their interests and abilities.

#### Appeal Procedures

Students who believe they have been unjustly treated in an arbitrary, capricious, or discriminatory fashion in academic or other matters relating to their career as students may appeal by following the guidelines set forth in the *Policies and Procedures Manual* for the School of Social Work, available in Academic Services, WHALL 135.

#### STUDENT RESPONSIBILITIES

Students are expected to support and maintain the highest professional standards as spelled out in the *ASU Student Code of Conduct* and the *National Association of Social Workers Code of Ethics*.

Regular attendance is expected in all classes and in field education and is a critical factor in evaluation of performance.

Students' rights are protected through appeal to the Committee on Academic and Professional Standards or through consultation with the school's ombudsperson.

#### SPECIAL PROGRAMS

**Tucson Component.** The School of Social Work offers a part time, cohort driven B.S.W. Program in Tucson in conjunction with the College of Extended Education.

For more information about the B.S.W. program, contact the Tucson Component at 520/884-5507.

**University Honors College.** The School of Social Work participates with the University Honors College, which affords undergraduates opportunities for enhanced educational experiences. A description of the requirements and the opportunities offered by the University Honors College can be found on pages 293-295 of this catalog.

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## School of Social Work

Emilia E. Martinez-Brawley  
Dean  
(WHALL 135) 602/965 3304  
[www.asu.edu/socialwork](http://www.asu.edu/socialwork)

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#### PROFESSORS

ASHFORD, COUDROGLOU  
DALEY, KETTNER,  
LeCROY MacEACHRON  
MARTINEZ-BRAWLEY MORONEY

#### ASSOCIATE PROFESSORS

FAUSEL GUSTAVSSON  
LEYBA, MONTERO, N CHOLS PAZ  
SEGAL, WALLER

#### ASSISTANT PROFESSORS

BELL, BRZUZY CARTER  
GERDES, HURDLE MARS GLA  
NAPOLI, R SLEY-CURTISS,  
STEINER, STROMWALL  
VILLEREAL, ZOR TA

#### ACADEMIC PROFESSIONALS

GONZALEZ SANTIN JOHNSTON  
KNUTSON WOODS

#### SOCIAL WORK (SWG)

See the *Graduate Catalog* for the SWG courses

#### SOCIAL WORK (SWU)

**SWU 271 Introduction to Social Work.** (3 F S)

Descriptive and analytical structural perspective of the profession of social work, social problems and the social welfare system. Designed for freshmen and sophomores considering this major. Prerequisites: PGS 101, SOC 101. *General Studies: H*

**SWU 291 Social Service Delivery Systems.** (3 F S)

Knowledge and skills necessary to utilize community resources to be a competent case manager. Includes 40 hours of observational experience in local agencies. Pre- or corequisite: SWU 271.

**SWU 301 Human Behavior in the Social Environment.** (3 F S)

Impact of the social environment on the behavior of individuals, family systems, communities and organizations. Prerequisites: PGS 101, SOC 101. Human biology course. Pre- or corequisites: SWU 271, 291. *General Studies L2/SB*

**SWU 302 Human Biology for Social Workers.** (3 F S)

Overview of human anatomy and physiology and the reciprocal relationships between the social and environmental culture. Discussion. Prerequisite: SWU 271, 291.

**SWU 310 Social Work Practice I.** (3 F S)

Introduction to social work methods emphasizing the working skills, communication patterns, cross-cultural interviewing, recording, reporting and evaluation. Prerequisite: SWU 291. Pre- or corequisite: SWU 311.

**SWU 320 Research Methods in Social Work.** (3 F S)

Application of scientific principles for practice. Impact assessment, service procedures and problem formulation. Lecture cooperative learning. Prerequisite: SWU 310 and an approved course in data analysis techniques. Instructor approval.

**SWU 321 Statistics for Social Workers.** (F S)

Teaches social work students how to use and interpret descriptive and inferential statistics in social work practice. Lecture seminar group work. Prerequisites: MAT 114, 117. Pre- or corequisite: SWU 32. *General Studies N2*

**SWU 340 Human Behavior in the Social Environment II.** (3 F S)

Theories of human development across the life span. Emphasis placed on individual, families and groups. Lecture discussion. Prerequisite: SWU 301. Pre- or corequisites: SWU 302, 310. *General Studies SB*

**SWU 410 Social Work Practice II.** (3 F S)

Knowledge and skills in social work practice with individuals and families. Prerequisites: PH 101, 306, SWU 310. Social Work major. Corequisites: SWU 412, 413.

**SWU 411 Social Work Practice II.** (3 F S)

Knowledge and skills in social work practice with groups, communities and organizations. Prerequisites: SWU 413, Social Work major. Corequisites: SWU 414, 415.

**SWU 412 Field Instruction I.** (5) (F S)

Sixteen hours a week of supervised practice in an approved placement. Prerequisite: Social Work major. Corequisites: SWU 411, 413.

**SWU 413 Field Instruction Seminar.** (1 F S)

Field focused seminar conducting practice evaluation. 1.5 hours a week. Prerequisite: Social Work major. Corequisites: SWU 410, 412.

**SWU 414 Field Instruction I.** (5) (F S)

Sixteen hours a week of supervised practice in an approved placement. Prerequisite: SWU 413. Social Work major. Corequisites: SWU 411, 415.

**SWU 415 Field Instruction Seminar II.** (1 F S)

Field focused seminar conducting practice evaluation. 1.5 hours a week. Prerequisite: Social Work major. Corequisites: SWU 411, 414.

**SWU 432 Social Policy and Services.** (3) F, S

Contemporary social, political, and economic issues. Special emphasis on poverty and inequality in the Southwest. Analysis and development of social welfare policies and programs. Prerequisites: ECN 111; POS 110 (or 310); Social Work major. Pre- or corequisites: SWU 410, 412, 413.

**SWU 442 Introduction to Practice with Children and Families in Child Welfare.** (3) F, S

Focuses on the characteristics, strengths, and service needs of families and children in the Child Welfare System. Lecture, cooperative learning. Prerequisites: SWU 410, 413; Social Work major.

**SWU 444 Issues in School Social Work.** (3) F, S

Demonstrates how community, family, and school are interdependent using an ecological metaphor, and introduces school social work. Lecture, cooperative learning. Prerequisites: SWU 413; Social Work major.

**SWU 474 Ethnic/Cultural Variables in Social Work.** (3) F, S

A basic conceptual approach to understanding ethnic/cultural variables of southwestern ethnic minorities and how these factors influence social work practice. Prerequisite: instructor approval, *General Studies: C*.



School of Social Work intern Damien Pena introduces fellow intern Bradley Wasserman to kindergarten students at M.C. Cash Elementary School.

Jim Painter photo

# Summer Sessions

Carol Switzer, M.S.  
Director



Campus fountains and tree-lined pedestrian malls provide an escape from the hot summer sun.

Jeff Havir photo

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. For more information, visit the Summer Sessions Web site at [www.asu.edu/ssc](http://www.asu.edu/ssc).

**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.** An application form is provided in the *Summer Sessions Bulletin*. The submission 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 69–70.

Conditional admission before graduation from high school may be granted. See "Admission before Graduation from High School," page 62.

**Advising.** All students are strongly encouraged to seek academic advising before enrolling in summer courses. See "Academic Advising," page 69.

**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

RESIDENTIAL 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 59–60.

**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 In-Touch. 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 independent learning 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 B167, 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 accommo-

dations 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.

**Related Programs.** Close relationships are maintained with a number of academic units on campus. The University Honors College cooperates in the creation of special programs for the benefit of its students. The Department of Languages and Literatures assists in the staffing and management of a number of study abroad programs, especially those related to language acquisition. The College of Business maintains an advising service for the College of Business students intending to study 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 pro-

gram 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 at [www.asu.edu/ipo](http://www.asu.edu/ipo).

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 re-

fund 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

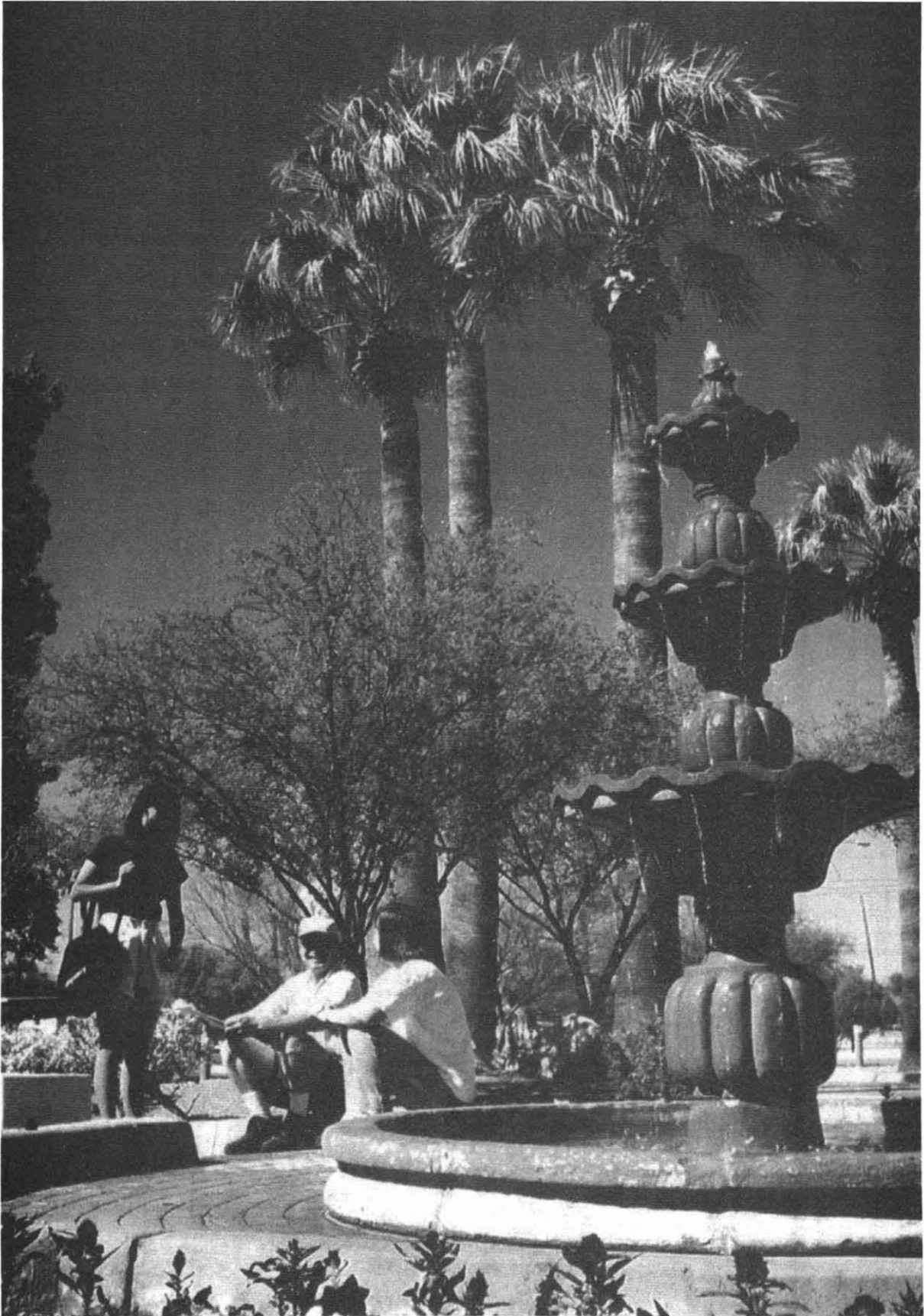
International Programs seeks to encourage a wide range of other academic activities. These activities include exchanges of faculty members and the development of institutional relationships with universities overseas to encourage joint research projects. The office also assumes responsibility for a considerable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



ASU student Fredrika Lonnie (mixing paint) and Department of Management employee Virginia Gallegos (in background on right) help paint a mural of Mexican history located in the Zapata study lounge in Hayden Hall.

Tim Trumble photo





ASU East Student Union fountain.

Dave Tevis photo

# ASU East

**Charles E. Backus, Ph.D.**  
*Provost*

Arizona State University's third campus, ASU East, opened at the Williams Campus in the fall of 1996, serving more than 1,000 students in degree programs offered by the College of Technology and Applied Sciences and School of Agribusiness and Resource Management. These unique "get down to business" programs are offered at no other Arizona campus, and they are tailored to help students develop knowledge and skills specifically needed in the businesses and industries of the 21st century. In 1997, East College was created to provide support courses for existing programs and to generate new degree programs at ASU East.

Students admitted to ASU East programs can take courses at ASU Main and ASU West. They can also take advantage of an exciting educational innovation at the Williams Campus. ASU East has joined with Chandler Gilbert Community College (CGCC) in the New Partnership in Baccalaureate Education that allows students to graduate in four years with an ASU baccalaureate degree earned entirely at the Williams Campus.

Benefits of the partnership include:

1. CGCC provides lower-division general education, general interest, and major prerequisite courses, which transfer automatically to ASU East each semester as direct equivalents of ASU courses;
2. ASU East provides both lower- and upper division courses in the major and upper division general interest courses;
3. all students in the partnership have the status and all the privileges of ASU students. A no cost/no credit course, JAC 001, is used to maintain ASU status for ASU East students enrolled solely in CGCC courses;
4. ASU East students never pay more than ASU tuition and may pay less, depending on the combination of ASU and CGCC classes they are taking;
5. ASU East students can participate in an innovative first-year curriculum combining introductory courses in the major with required general studies courses in an efficient, integrated "block schedule";
6. ASU East and CGCC have a single registration form, a unified payment system, and financial aid agreement; and
7. ASU East and CGCC together provide advising, tutoring, library services, and a computing center as well as residence life, shared student life activities and recreation.

The New Partnership in Baccalaureate Education combines the proven strengths of ASU East and Chandler Gilbert Community College into a powerful student centered educational experience.

ASU East, a residential campus, is transforming the facilities inherited from Williams Air Force Base into an academic village. The campus includes excellent educational facilities: modern classrooms and laboratories, a 21st century electronic library, and state-of-the-art computer equipment. ASU East offers unique residential opportunities. Faculty, staff, and students live, teach, work, and learn together in a growing, diverse academic community offering a choice of traditional residence halls or two- to five-bedroom homes. ASU students may live on East, Main, or off campus while attending classes at any of the campuses. Other amenities include a dining hall, bookstore, campus union, free parking, and abundant recreational facilities.

ASU East is a student-centered campus that offers many of the features of a small college in a rural area while providing access to the resources of a major research university and the amenities of a large metropolitan area. A shuttle service provides transportation between ASU East and ASU Main. An additional shuttle is available for transportation from ASU Main to ASU West. The 600-acre ASU East campus is easily accessible via major interstate routes. Please see map on page 459.

For more information, call 602/727 EAST (3278) or check the Web site, [www.east.asu.edu](http://www.east.asu.edu).

## Accreditation

The North Central Association of Colleges and Schools accreditation of ASU Main includes ASU East. In addition, ASU East programs in Aeronautical Engineering Technology, Electronics Engineering Technology, and Manufacturing Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (TAC of ABET).

### Academic Organization and Administration

The chief operating and academic officer of ASU East is the provost. There are two colleges and one school at ASU East administered by deans. These academic units develop and implement the teaching, research, and service programs of the institution. Additional support for the academic mission of the campus is provided by Library Services and Information Technology, each administered by a director. See "Administrative and Academic Personnel," (ASU East) page 461 and "Academic Organization," page 9.

### ADMISSION

**Nondegree Students.** Nondegree students may take courses at ASU East according to the special provisions on page 62.

**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 East. To be admitted to an ASU East degree program, the student must meet undergraduate admissions requirements and the specific admission requirements of the ASU East program. A student who is admitted to an ASU East degree program is defined as an ASU East student.

For more admissions information and applications to ASU East degree

programs, call 602/727 EAST (3278) or visit or write

UNDERGRADUATE ADMISSIONS  
ARIZONA STATE UNIVERSITY  
PO BOX 870112  
TEMPE AZ 85287-0112

### Transfer Among ASU Campuses

Degree seeking students currently enrolled at either ASU Main or ASU West who want to relocate to an ASU East degree program should contact the OASIS at ASU East, the Registrar's Office at ASU Main, or the Admissions and Records Office at ASU West for appropriate procedures. All credit earned at any ASU campus automatically transfers to ASU East. Students should consult with their ASU East major advisor to determine how this credit will apply to their major and graduation requirements. Students should be aware that certain requirements (e.g., the minimum number of upper division semester hours to graduate) may differ among campuses.

### Transfer Credit

Courses taken from Chandler Gilbert Community College through the New Partnership in Baccalaureate Education are automatically transferred to ASU East each semester. These courses and courses taken at other Arizona public community colleges will transfer according to equivalencies established in the current *Arizona Higher Education Course Equivalence Guide*. The accept-

ability and applicability of courses transferred from other universities and community colleges is determined by the ASU Main Undergraduate Admissions Office in consultation with the faculty or academic advisor of the student's choice of major.

### ADVISING

Students are encouraged to take advantage of the skill and knowledge of the advising professionals available to them in the academic units and to seek academic advising early.

For more information or to schedule an advising session, contact an academic advisor (see the "Academic Advising" table on this page).

### Degree Programs

**Bachelor of Applied Science.** ASU East offers the B.A.S. degree for students who have completed an A.A.S. degree. For further information contact Dale Palmgren at 602/727 1874.

**Bachelor of Science, Master of Science, Master of Technology.** Refer to the "ASU East Degrees, Majors, and Concentrations" table, page 437.

### JOINT ADMISSION CONTINUOUS ENROLLMENT (JAC)

**JAC 001 Joint Admission Continuous Enrollment.** (0-12) F, S, SS  
For use by ASU East to track undergraduate students admitted to East Campus degree programs who are concurrently enrolled or solely enrolled in courses offered by Chandler Gilbert Community College.

### Academic Advising

College or School	Location	Telephone	Days	Hours
College of Technology and Applied Sciences	CNTR 10	602/727 1252	Mon. Fri.	8:00-5:00 Appointments are recommended.
East College	CNTR 30	602/727 1041	Mon. Fri.	8:00-5:00 Appointments are recommended.
School of Agribusiness and Resource Management	CNTR 20	602/727 1585	Mon. Fri.	8:00-5:00 Appointments are recommended.
University Honors College	MCL 112*	602/965 2359	Mon. Fri.	8:00-5:00 Appointments are recommended.

\* The University Honors College is located at ASU Main.

**NOTE** For the General Studies requirement codes (such as L1, N3, C, and H), and courses, see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.



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## East College

David E. Schwalm, Ph.D.  
*Dean*  
 (CNTR 30) 602/727-1028  
[www.asu.edu/east/ecollege/eastcoll.html](http://www.asu.edu/east/ecollege/eastcoll.html)

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### PURPOSE

East College was created by the Arizona Board of Regents in February 1997, to serve four purposes:

1. to offer an array of upper division General Studies and general interest courses for students enrolled in agribusiness and technology programs;

2. to coordinate the New Partnership in Baccalaureate Education with Chandler Gilbert Community College to provide lower-division General Studies and major prerequisite courses for ASU East students;
3. to offer an academic home for students who choose the unique social and academic environment of ASU East but do not wish to declare a major immediately, and
4. to be the home for all new degree programs developed at ASU East outside of agribusiness and technology. The first new programs should be available in the fall of 1998.

Through the New Partnership in Baccalaureate Education, ASU East students take First Year Composition

courses and lower-division courses that meet ASU General Studies requirements in mathematics, science, social and behavioral sciences, arts and humanities, and literacy, along with the awareness areas: historical awareness, global awareness, and cultural diversity. These courses are available in an innovative integrated first year curriculum designed to foster student academic success. Students can take major prerequisite courses, introductory foreign language courses, and other lower-division courses of general interest through the partnership. East College also offers popular upper division courses in anthropology, art, communication, economics, English, history, mathematics, music, philosophy, political science, psychology, religious studies, sociology, and women's studies.

### ASU East Degrees, Majors, and Concentrations

Major	Degree	Administered by
<b>Baccalaureate Degrees</b>		
Aeronautical Engineering Technology	B.S.	Department of Manufacturing and Aeronautical Engineering Technology
Aeronautical Management Technology* Options: airway science flight management, airway science management	B.S.	Department of Aeronautical Management Technology
Agribusiness Concentrations: general agribusiness, preveterinary medicine	B.S.	School of Agribusiness and Resource Management
Applied Science	B.A.S.	Bachelor of Applied Science Advisory Committee
Electronics Engineering Technology* Options: computer systems, electronic systems, microelectronics, telecommunications	B.S.	Department of Electronics and Computer Engineering Technology
Industrial Technology* Options: environmental technology management, industrial technology management, information technology	B.S.	Department of Information and Management Technology
Manufacturing Engineering Technology* Emphases: manufacturing engineering technology, mechanical engineering technology	B.S.	Department of Manufacturing and Aeronautical Engineering Technology
<b>Graduate Degrees</b>		
Agribusiness Concentrations: agribusiness management and marketing, food quality assurance	M.S.	School of Agribusiness and Resource Management
Technology Concentrations: aeronautical engineering technology, aeronautical management technology, electronics and computer engineering technology, graphic communications technology, industrial management and supervision, manufacturing engineering technology, mechanical engineering technology, welding engineering technology	M.Tech.	College of Technology and Applied Sciences

\* This major requires more than 120 semester hours to complete.

## College of Technology and Applied Sciences

Albert L. McHenry, Ph.D.  
Dean  
(CNTR 10) 602/727-1874  
[www.asu.edu/east/tech](http://www.asu.edu/east/tech)

### PURPOSE

The College of Technology and Applied Sciences (CTAS) helps students develop knowledge and skill in technological fields which qualify them for career positions and leadership responsibility in industry, government and commercial enterprise. Each student is guided to select a major which addresses short term employment goals through state of the art technological preparation. Long term career aspirations are supported through the development of a strong base in mathematics, science, engineering, and technical principles coupled with a solid foundation in liberal arts and a commitment to lifelong learning.

Engineering technology programs offer professional preparation through a B.S. degree that stresses state of the art technological applications. Special emphasis is placed on the development of knowledge and skill in applied mathematics, natural sciences, and engineering principles with formal laboratory experiences. This mixed educational approach provides the basis for both employment and a long term career evolution.

The other CTAS technology programs provide the opportunity for students to develop knowledge and skill in solving broad scale industrial problems, operating modern technological systems, and managing personnel in the implementation of processes and production. Programs of study focus on the latest technologies in areas such as aviation flight training and management, environmentally hazardous waste management, graphic communications, interactive computer graphics, and industrial management.

Each student is encouraged to participate in creative activities through a close relationship with a faculty mentor. Learning through execution of the

scientific method, using both inductive and deductive processes in applied research activities, is essential for both faculty and students.

### ORGANIZATION

The College of Technology and Applied Sciences is composed of the following four academic units:

- Department of Aeronautical Management Technology
- Department of Electronics and Computer Engineering Technology
- Department of Information and Management Technology
- Department of Manufacturing and Aeronautical Engineering Technology

### DEGREES

The College of Technology and Applied Sciences offers several programs leading to the B.S. degree (see table on page 437). The college also offers the Master of Technology (M.Tech.) degree. For more information on courses, faculty, and programs in the M.Tech. degree see the *Graduate Catalog*.

### ACCREDITATION

Undergraduate programs in Aeronautical Engineering Technology, Electronics Engineering Technology, and Manufacturing Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. For additional information, call 410-347-7700 or write:

TECHNOLOGY ACCREDITATION  
COMMISSION OF THE  
ACCREDITATION BOARD FOR  
ENGINEERING AND  
TECHNOLOGY, INC.  
111 MARKET PLACE, SUITE 1050  
Baltimore, MD 21202

### ADMISSION

The College of Technology and Applied Sciences admits first year students who meet the undergraduate admission requirements of Arizona State University. See "Undergraduate Admission" on pages 59-66. High school precalculus, physics, and chemistry are recommended. Transfer applicants must meet the university requirements

for transfer students as specified on page 67 with the exception that Arizona resident transfer students must have a 2.25 GPA. Students admitted to CTAS begin study under one of two student classifications, professional or preprofessional.

### Professional Status

First year students (new freshmen) are admitted to CTAS with professional status if they meet the general aptitude criteria for admission and have no deficiencies in the basic competency requirements for admission. First year students admitted upon completion of the GED will be admitted with professional status if they have also achieved the minimum ACT or SAT scores required for undergraduate admission to the university.

Students transferring from other ASU colleges are admitted to CTAS with professional status if they have no pending admissions deficiencies and are in good standing in the university.

Transfer students from other institutions must meet the minimum admission requirements for college transfer students as described on page 62. The CTAS, in addition, requires resident transfer students to have a cumulative GPA of 2.25.

International students must have a minimum 500 TOEFL score to be admitted with professional status.

### Preprofessional Status

Other students are admitted with preprofessional status and may apply for professional status after they have removed the deficiency which disallows awarding professional status. Students with preprofessional status may not register for 300- and 400-level courses in the college until they have been awarded professional status. See an advisor for details.

### Transfer Credit

Credit for courses taken at a community college or another four-year institution will be awarded according to the guidelines on page 63. Students who are transferring from an Arizona community college and have been in continuous residence may continue under the catalog in effect at the time of their entrance into the community college. Students should be aware that some

course work that transfers to ASU may not be applicable toward CTAS degree requirements. Students should confer with an advisor.

Courses taken more than five years before admission to a CTAS degree program are not normally accepted for transfer credit at the option of the department in which the applicant wishes to enroll. Courses completed within the five years preceding admission are judged as to their applicability to the student's curriculum.

## ADVISING

New incoming and transfer students should seek initial advising from the academic advisor in the Dean's Office. CTAS students are then assigned faculty advisors in the department of their major who assist them with planning a program of study. The college requires that students consult with advisors before registering each semester. Advisors should be made aware of any employment obligations or special circumstances that may affect a student's ability to successfully handle a full course load. CTAS students may register for a maximum of 19 semester hours per semester. Any student wishing to take more than the maximum must petition the CTAS Standards Committee and have an approval on file before registering for an overload.

## GRADUATION REQUIREMENTS

Students must meet all university graduation requirements (see pages 79-83) as well as degree requirements of their major in the College of Technology and Applied Sciences. For detailed information on the degree requirements of a major in CTAS, refer to that department's individual description.

## COLLEGE STANDARDS

### Pass/Fail Grades

The College of Technology and Applied Sciences does not offer pass/fail grades. Courses graded on a pass/fail basis do not count toward degree credit in CTAS. Students may request credit for pass/fail courses by petitioning the CTAS Standards Committee.

### Entry into Upper-Division Courses

Before enrolling in courses at the 300 level and above, CTAS students must be in good academic standing within the college and have the ap-

proval of their advisors. Students who are not in good academic standing must secure approval from their advisor and the dean's office. Students enrolled in another ASU college may not register for any 300 and 400 level CTAS courses unless those courses are required in their degree program and the students have the proper course prerequisites.

## ACADEMIC STANDARDS

**Retention.** A student is expected to make satisfactory progress toward completion of degree requirements in order to continue enrollment in the College of Technology and Applied Sciences. Any one of the following conditions is considered unsatisfactory progress and results in the student's being placed on probationary status:

1. a semester or summer session with a GPA less than or equal to 1.50, or
2. two successive semesters with GPAs less than 2.00; or
3. an ASU cumulative GPA less than 2.00.

A student on probation is subject to disqualification if:

1. a semester GPA of 2.25 is not attained and the cumulative GPA is below 2.00 at the end of the probationary semester, or
2. the student is placed on probation for two consecutive semesters and is unable to achieve the standard GPAs stated in number one.

Students on academic probation are not allowed to register for more than 13 semester hours. Probationary students may not register for the semester following the semester in which they were declared probationary without a special permit from an advisor in the dean's office. Special permits are given only after the registrar records grades for the current semester.

**Disqualification.** During a semester on academic probation, a student who fails to meet the retention standards is disqualified. Students may request a review of their disqualification status by contacting the CTAS associate dean in the Academic Center Building (CNTR), Room 10. Any disqualified student who is accepted by another college at ASU may not register for courses in CTAS unless the courses are required in the new major. Disqualified

students who register for courses in CTAS may be withdrawn from these courses any time during the semester.

**Reinstatement.** The College of Technology and Applied Sciences does not accept an application for reinstatement until the disqualified student has remained out of the college for at least a 12 month period. Merely having remained in disqualified status for this period of time does not, in itself, constitute a basis for reinstatement. Proof of ability to do satisfactory college work in the chosen discipline is required; for example, completing pertinent courses in the discipline at a community college with higher than average grades.

## STUDENT RESPONSIBILITIES

**Course Prerequisites.** Students should consult the *Schedule of Classes* and the catalog for course prerequisites. Students who register for courses without the designated prerequisites may be withdrawn without their consent at any time before the final examination. The instructor, the chair of the department, or the dean of the college, may initiate such withdrawals. In such cases, students will not receive monetary reimbursement. Such withdrawals are considered to be unrestricted as described on page 73 and do not count against the number of restricted withdrawals allowed.

## SPECIAL PROGRAMS

**Academic Recognition.** Students completing baccalaureate degree requirements receive the appropriate honors designations on their diplomas consistent with the requirements specified by the university.

Students in the College of Technology and Applied Sciences are encouraged to seek information concerning entry into honor societies that enhance their professional stature. Tau Alpha Pi is the engineering technology honor society, and Alpha Eta Rho is available for aeronautical management technology students.

**Transfer Programs.** The College of Technology and Applied Sciences maintains a cooperative agreement with most Arizona community colleges and with selected out-of-state colleges and universities to structure programs that are directly transferable into the technology programs at ASU East.

**University Honors College.** The College of Technology and Applied Sciences participates in the programs of the University Honors College, which provides enhanced educational experiences to academically superior undergraduate students. Participating students can major in any academic program. A description and the opportunities offered by the University Honors College can be found on pages 293-295.

**Scholarships.** Information and applications for academic scholarships for continuing students may be obtained by contacting departmental offices. Other scholarships may be available through the university Student Financial Assistance Office.

**ROTC Students.** Students pursuing a commission through either the Air Force or Army ROTC programs are required to take from 12 to 20 semester hours in the Department of Aerospace Studies or Department of Military Science courses. To preclude excessive overloads, these students should plan on at least one additional semester to complete degree requirements. Because of accreditation requirements, aerospace studies (AES) or military science (MIS) courses are not accepted in the engineering technology majors.

#### ENGINEERING TECHNOLOGY CORE (ETC)

**ETC 100 Languages of Technology.** (4) F, S  
Introduction to computer-aided design programming, modeling, and technical documentation. Lecture, lab. *General Studies: N3.*

**ETC 101 Languages of Technology Lab.** (0) F, S  
Introduction to computer-aided design programming, modeling, and technical documentation.

**ETC 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. *General Studies: L1.*

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

**ETC 211 Applied Engineering Mechanics: Statics.** (3) F, S

Vectors, forces and moments, force systems, equilibrium, analysis of basic structures and structural components, friction, centroids, and moments of inertia. Prerequisites: MAT 260, PHY 111, 113.

**ETC 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.

**ETC 400 Technical Communications.** (3) F, S, SS

Planning and preparing technical publications and oral presentations based on directed laboratory research related to current technical topics. Prerequisites: completion of first year English requirements; L1 course; senior standing as a CTAS major. *General Studies: L2.*

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## Department of Aeronautical Management Technology

William K. McCurry  
*Chair*  
(SIM 205) 602/727-1381  
FAX 602/727-1730

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PROFESSOR  
GESELL

ASSOCIATE PROFESSOR  
MCCURRY

ASSISTANT PROFESSORS  
JACKSON, KARP

LECTURERS  
BORRMANN, O'BRIEN, SPENCE

#### PURPOSE

Graduates are prepared for entry into the aviation and aerospace industry in productive, professional employment or, alternatively, for graduate study. Curricula emphasize 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 and who meet the requirements for admis-

sion to the College of Technology and Applied Sciences are admitted without separate application to the Department of Aeronautical Management Technology. Transfer credits are reviewed by department faculty advisors. To be acceptable for department credit, transfer courses must be equivalent in both content and level of offering.

#### DEGREES

The faculty in the Department of Aeronautical Management Technology offer a B.S. degree in Aeronautical Management Technology and includes options in airway science, flight management, and airway science management.

A Master of Technology degree is offered for graduate study. For more information about the graduate program, see the *Graduate Catalog*.

#### AERONAUTICAL MANAGEMENT TECHNOLOGY—B.S.

The Aeronautical Management Technology curricula are 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 two options: airway science, flight management, and airway science management, both of which have the approval of the Federal Aviation Administration as Airway Science programs. The options are described separately below.

All degree requirements are shown on curriculum check sheets for the options that are available through the department. Requirements include First Year Composition, university General Studies (see pages 84-108), and the Aeronautical Management Technology Core. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of

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**NOTE:** For the General Studies requirement codes (such as L1, N3, C, and H) and courses, see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

courses. Refer to individual option degree requirements for additional required courses. Students must complete each Aeronautical Management Technology course with a grade of "C" or higher.

**Aeronautical Management Technology Core**

AMT 101	Introduction to Aeronautical Management Technology	1
AMT 182	Private Pilot Ground School	3
AMT 201	Air Traffic Control	3
AMT 220	Aviation Meteorology	3
AMT 280	Aerospace Structures, Materials, and Systems	4
AMT 287	Aircraft Powerplants	4
AMT 308	Air Transportation G	3
AMT 396	Aviation Professional	1
AMT 410	Aviation Safety and Human Factors	3
AMT 442	Aviation Law/Regulations	3
ETC 100	Languages of Technology V3	4
ETC 201	Applied Electrical Science	4
Total		36

**Airway Science Flight Management Option**

*Flight training is certified by the Federal Aviation Administration.*

Airway science flight management combines academic studies and flight training to prepare graduates for a wide variety of positions within the air transportation industry, including general, airline, and military 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 an available option.

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 also emphasizes critical thinking, analytical skills, and oral and written communication skills. A career in airway science flight management leads to the development, administration, and enforcement of safety regulations, including airworthiness and operational standards in civil aviation. The airway science flight 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 those entities 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 \$35,000 in addition to normal university costs*

**Degree Requirements**

Airway science flight management students are required to complete 128 semester hours with a 2.00 cumulative GPA, including a minimum of 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 for First Year Composition, university General Studies (see pages 84-108), and the Aeronautical Management Technology core, the following additional courses are required for the airway science flight management option:

AET 300	Aircraft Design I	3
AMT 100	Flight Safety I	1
AMT 200	Flight Safety II	2
AMT 222	Instrument Pilot Ground School	3
AMT 300	Flight Safety III	2
AMT 314	Commercial Pilot Ground School	3
AMT 382	Air Navigation	3
AMT 385	Flight Instructor Ground School	3
AMT 387	Multiengine Pilot Ground School	1
AMT 392	Flight Instructor Instrument Ground School	2
AMT 400	Flight Safety IV	1
AMT 408	National Aviation Policy	3
AMT 444	Airport Management and Planning	3
AMT 482	Airline Instrument Procedures	3
AMT 489	Airline Administration	3
AMT 496	Airline Aircraft Systems Capstone	3
IMC 346	Management Dynamics	3
	Technical electives	6
Total		48

**Suggested Course Pattern for Freshmen**

**First Semester**

AMT 101	Introduction to Aeronautical Management Technology	1
AMT 182	Private Pilot Ground School	3
AMT 220	Aviation Meteorology	3
ENG 101	First Year Composition	3
MAT 170	Precalculus N1	3
Total		13

**Second Semester**

AMT 100	Flight Safety I	1
AMT 222	Instrument Pilot Ground School	3
ENG 102	First Year Composition	3
ETC 100	Languages of Technology N3	4
MAT 260	Technical Calculus I N1	3
PHY 111	General Physics S1/S2*	3
PHY 113	General Physics Laboratory S1/S2*	1
Total		18

\* Both PHY 111 and 113 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. An in depth technical education is included along with broad exposure to business and management courses. This program of study is interdisciplinary in nature and prepares the aeronautical career oriented student for positions such 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 128 semester hours with a 2.00 cumulative GPA, including a minimum of 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 for First-Year Composition, university General Studies (see pages 84-108), and the Aeronautical Management Technology core, the following additional courses are required in the airway science management option:

ACC 230	Uses of Accounting Information . . . . .	3
AMT 408	National Aviation Policy . . . . .	3
AMT 444	Airport Management and Planning . . . . .	3
AMT 489	Airline Administration . . . . .	3
AMT 491	Aviation Management Capstone . . . . .	3
IMC 346	Management Dynamics . . . . .	3
ITM 343	Occupational Safety and Ergonomics . . . . .	3
ITM 430	Ethical Issues in Technology . . . . .	3
ITM 452	Industrial Human Resource Management . . . . .	3
ITM 456	Introduction to Organized Labor . . . . .	3
ITM 480	Organizational Effectiveness . . . . .	3
	Technical electives . . . . .	15
	Total . . . . .	48

**Suggested Course Pattern for Freshmen**

**First Semester**

AMT 101	Introduction to Aeronautical Management Technology . . . . .	1
AMT 182	Private Pilot Ground School . . . . .	3
AMT 220	Aviation Meteorology . . . . .	3
ENG 101	First Year Composition . . . . .	3
MAT 170	Precalculus <i>NI</i> . . . . .	3
	Total . . . . .	13

**Second Semester**

ENG 102	First-Year Composition . . . . .	3
ETC 100	Languages of Technology <i>N3</i> . . . . .	4
MAT 260	Technical Calculus I <i>NI</i> . . . . .	3
PHY 111	General Physics <i>S1/S2*</i> . . . . .	3
PHY 113	General Physics Laboratory <i>S1/S2*</i> . . . . .	1
	General Studies elective . . . . .	3
	Total . . . . .	17

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

**STUDENT ORGANIZATIONS**

The department hosts the local chapter of Alpha Eta Rho, an international professional aviation fraternity open to all students with an interest in aviation. The American Association for Airport Executives (AAAE) is open to all students with an interest in airport management. The Precision Flight Team competes in regional and national flying safety competitions.

**AERONAUTICAL MANAGEMENT TECHNOLOGY (AMT)**

*Flight instruction costs are not included in university tuition and fees*

**AMT 100 Flight Safety I.** (1) F, S SS Supervised private pilot flight training and flight safety briefings. Continuous enrollment completion of the FAA Private Pilot Certificate. Lecture, lab. Prerequisites: AMT 182 and 220 or equivalents

**AMT 101 Introduction to Aeronautical Management Technology.** (1) F S Facilitates entry into Aeronautics Management Technology programs. Emphasizes general catalog and specialization requirements, registration, careers and ASU East facilities.

**AMT 182 Private Pilot Ground School.** (3) F S Ground school preparation for Private Pilot Certificate. Aerodynamics navigation, performance and regulations. Lecture, lab. Corequisite: AMT 220

**AMT 200 Flight Safety II.** (2) F S SS Supervised commercial instrument flight training and safety briefings. Continuous enrollment required until completion of FAA Commercial Pilot Certificate with instrument Rating. Lecture, lab. Prerequisites: AMT 100 Private Pilot Certificate. Pre or corequisite: AMT 222 or 314

**AMT 201 Air Traffic Control.** (3) F Ground and air operations; weather services communication and routing; flight plans, IFR operations, departures and arrivals and airport conditions and emergencies. Prerequisite: AMT 182

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

**AMT 222 Instrument Pilot Ground School.** (3) S Ground school leading to the FAA Instrument Pilot Rating. 10 hours ground trainer included. Lecture, lab. Pre or corequisites: AMT 182, 220.

**AMT 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.

**AMT 287 Aircraft Powerplants.** (4) S Theory and performance analysis of gas turbine and reciprocating aircraft engines. Engine accessories, systems and environmental control. Lecture, lab. Prerequisite: AMT 280

**AMT 300 Flight Safety III.** (2) F, S, SS Supervised instructor flight training and safety briefings. Continuous enrollment required until completion of FAA Flight Instructor Certificate with instrument instructor Rating. Lecture, lab. Prerequisite: AMT 200. Pre or corequisite: AMT 385

**AMT 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 or standing. *General Studies.* G

**AMT 314 Commercial Pilot Ground School.** (3) F Ground school leading to FAA Commercial Pilot Certificate. 10 hours ground trainer included. Lecture, lab. Prerequisite: Private Pilot Certificate. Pre or corequisite: AMT 222

**AMT 360 Introduction to Helicopter Technology.** (3) N Introduction to the working functions of modern rotary wing aircraft, rotary wing flight theory, aerodynamics, controls, flight, and power requirements. Prerequisites: PHY 111, 113

**AMT 382 Air Navigation.** (3) S Theory and application of modern advanced navigation and flight instrument systems. Introduction to crew resource management in multiplace cockpits. Lecture, lab. Prerequisite: AMT 222

**AMT 385 Flight Instructor Ground School.** (3) S Ground school preparation for the FAA Flight Instructor Certificate. Lecture, lab. Pre or corequisite: AMT 300.

**AMT 387 Multiengine Pilot Ground School.** (1) S Ground school preparation for the FAA Multiengine Rating. Lecture, lab. Pre or corequisite: AMT 200 or instructor approval.

**AMT 391 Multiengine Instructor Ground School.** (2) N Ground school preparation for the FAA Multiengine Flight Instructor Rating. Lecture, lab. Prerequisites: AMT 300, 387, 400

**AMT 392 Flight Instructor Instrument Ground School.** (2) F Ground school preparation for the FAA Instrument Flight Instructor Rating. Prerequisite: AMT 300

**AMT 395 Multiengine Land, Airplane Flight Instructor Rating.** (1) N Normal and emergency flight operations. Instruction on techniques and procedures for light multiengine land airplane. CFIAME Rating required for course completion. Lecture, lab. Prerequisite: AMT 391

**AMT 396 Aviation Professional.** (1) F Career focus for management and flight students, including internships, resume writing, interviews, and employment search in aviation industry. Prerequisite: junior or standing.

**AMT 400 Flight Safety IV.** (1) F, S, SS Multiengine and crew training and safety briefings. Continuous enrollment required until completion of rating and multi-crew training. Lecture, lab. Prerequisite: AMT 300. Pre or corequisite: AMT 387

**AMT 408 National Aviation Policy.** (3) F Examination of aviation and aerospace policies and policy process, including agencies involved in formulation, implementation and evaluation of aviation policy. Prerequisite: AMT 308

**NOTE.** For the General Studies requirement, codes (such as L1, N3, C, and H) and courses, see pages 84–108. For graduation requirements see pages 79–83. For omnibus courses offered but not listed in this catalog, see pages 56–57.

**AMT 409 Nondestructive Testing and Quality Assurance.** 1 N

Purpose of inspection and quality assurance Theory and application of nondestructive inspection methods Application of pertinent standards, specifications, and codes Lecture Lab Cross listed as AET 409 Prerequisite: AMT 280 or MET 230

**AMT 410 Aviation Safety and Human Factors.** (3) F

Aviation accident prevention human factors the support fire prevention accident investigation, and crash survivability Development and analysis of aviation safety programs Prerequisites: junior standing, completion of 1 semester of teracy and critical inquiry (L1 requirement)

**AMT 442 Aviation Law/Regulations.** (3) F

Aviation within context of U.S. Common Law system Public aviation administrative making sovereignty enforcement and case law analysis Prerequisite: junior standing

**AMT 444 Airport Management and Planning.** (3) S

Oriented to administrative and management of modern public airports including overview of planning funding and development of airport facilities Prerequisite: AMT 308

**AMT 482 Airline Instrument Procedures.** (3) F

Advanced instrument flight using a rine instrument procedures and a rine crew and cockpit resource management Lecture Lab Prerequisites: AMT 222 382

**AMT 484 Aeronautical Internship.** (1 12) F, S, SS

Work experience assignment with aerospace industry commensurate with student's program Special project guidance by industry with university supervision Prerequisites: advisor approval; junior standing

**AMT 489 Airline Administration.** (3) S

Administrative organizations economics of a rine administrative operational structure, and relationship with federal government agencies Prerequisites: AMT 308 instructor approval

**AMT 491 Aviation Management Capstone.** (3) S

Integration and overview of management tools current business problems and topics related to aviation industry Group project with industry and government and business partners. Prerequisite: senior standing

**AMT 496 Airline Aircraft Systems Capstone.** (3) S

Commercial airline aircraft systems and flight procedures. Includes theoretical education for large commercial passenger aircraft Lecture Lab Prerequisite: senior standing.

**AMT 521 Air Transportation Regulation.** (3) N

Reviews evolutionary history of government regulations Explores alternatives for economic safety social, and administrative regulatory reform in air transportation Prerequisite: AMT 444 or 489 or equivalent

**AMT 523 Aviation Systems Management.** (3) N

Systems theory applied to intermodal transportation networks. Survey of air and ground transportation infrastructure institutional frameworks and intermodal premises promoting connections between modes Prerequisite: AMT 444 or 489 or equivalent

**AMT 525 Airport Planning and Design.** (3) N

Students complete various phases of a report master planning process Provide guidance for organic and timely development of a report Project work groups assigned Prerequisite: AMT 444 or 489 or equivalent

**AMT 527 Airline Management Strategies.** (3) N

Since deregulation airlines have undergone profound changes through mergers consolidation and acquisition In depth look at airline management strategies for the 21st century Prerequisite: AMT 444 or 489 or equivalent

**AMT 528 International Aviation.** (3) N

Major issues of international aviation historical review of institutional framework Bilateral route agreements, freedom versus sovereignty, current legal and political arrangements Prerequisite: AMT 444 or 489 or equivalent

**AMT 529 Fixed Base Operations Management.** (3) N

Examination of FBO role in the national aviation system Organization of flight line operations, aircraft maintenance and administration for multiple aircraft types Prerequisite: AMT 444 or 489 or equivalent

**AMT 541 Aviation Physiology.** (3) N

Survey of human physiology and human performance principles related to modern aircraft and aircraft systems operation in multiple environments Prerequisite: AMT 410 or equivalent

**AMT 543 Ergonomics in High Technology Environments.** (3) N

Examination of ergonomics design principles regarding man machine interface requirements of high technology workstations. Emphasis on computer workstation design issues Prerequisite: AMT 410 or equivalent

**AMT 545 Human Factors in Aviation.** (3) N

Overview of human role in aviation issues problems of unsafe acts and attitudes in human behavior Human engineering capabilities and limitations Prerequisite: AMT 410 or equivalent

**AMT 546 Crew Resource Management / Line-Oriented Flight Training.** (3) N

Evaluation of in depth multi crew coordination issues for commercial aviation pilots Stresses importance of critical thinking, decision making, integrated resource utilization Prerequisite: AMT 410 or equivalent

**AMT 547 Modern Human Factors Design Issues.** (3) N

Research and discussion of current human factors issues State of the art analyses of information regarding rapidly evolving designs and applications Prerequisite: AMT 410 or equivalent

**AMT 549 Human Factors Research.** (3) N

Aviation human factors research principles applied and tested in operational settings Group projects assigned in conjunction with industry partners. Prerequisite: AMT 410 or equivalent

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## Department of Electronics and Computer Engineering Technology

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*Chair*

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### PROFESSORS

MAISEL McHENRY MUNUKUTLA

### ASSOCIATE PROFESSORS

FORDEMWALT, MACIA

NOWLIN WOOD ZENG

### ASSISTANT PROFESSORS

LIPARI, PETERSON, SUNDARARAJAN

### 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. 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 faculty in the Department of Electronics and Computer Engineering Technology offer the B.S. 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 Engineering 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 (see pages 84–108) as well as the math/science requirement of TAC of ABET. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses.

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. A minimum of 128 semester hours with a 2.00 cumulative GPA is required for graduation. 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 of ABET, the professional accrediting agency for such curricula.

### DEGREE REQUIREMENTS

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

#### Engineering Technology Core

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

ETC	100	Languages of Technology N3 .....	4
ETC	211	Applied Engineering Mechanics: Statics .....	3
ETC	340	Applied Thermodynamics and Heat Transfer . . . .	3
Total			10

### Electronics Engineering Technology Core Requirements

CET	150	Digital Systems and Microprocessors N3 .....	3
CET	256	"C" Programming for Engineering Technology .....	3
CET	354	Microprocessor Principles .....	4
EET	208	Electric Circuit Analysis I .....	4
EET	301	Electric Circuit Analysis II .....	4
EET	310	Electronic Circuits I .....	4
EET	372	Communication Systems .....	4
EET	396	Professional Orientation* .....	1
EET	407	Electrical Power Systems .....	4
EET	410	Electronic Circuits II .....	3
UET	331	Electronic Materials .....	3
UET	415	Electronic Manufacturing Engineering Principles .....	3
Total			40

\* 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 .....			5
Total			23

#### 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 .....			8
Total			23

#### Microelectronics

CHM	116	General Chemistry S1/S2 .....	4
UET	416	Monolithic Integrated Circuit Devices .....	3



UET 417	Monolithic Integrated Circuit Laboratory	2
UET 418	Hybrid Integrated Circuit Technology	4
UET 421	Applied Device Physics	3
UET 432	Semiconductor Packaging and Heat Transfer	3
Approved technical electives		4
Total		23

**Telecommunications**

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		8
Total		23

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

**First Semester**

CET 150	Digital Systems and Microprocessors N3	3
ENG 101	First Year Composition	3
MAT 170	Precalculus N1	3
PHY 111	General Physics S1/S2 <sup>1</sup>	3
PHY 113	General Physics Lab S2/S2 <sup>1</sup>	1
HU, SB, and awareness area course		3
Total		13

**Second Semester**

ENG 102	First Year Composition	3
ETC 100	Languages of Technology N3	4
MAT 260	Technical Calculus I N1	3
PHY 112	General Physics S1/S2 <sup>2</sup>	3
PHY 114	General Physics Laboratory S1/S2 <sup>2</sup>	1
HU, SB, and awareness area course		3
Total		17

**Second Year**

**First Semester**

CET 256	"C" Programming for Engineering Technology	3
CHM 113	General Chemistry S1/S2	4
ECN 111	Macroeconomic Principles SB	3
EET 208	Electric Circuit Analysis I	4
MAT 261	Technical Calculus II	3
Total		17

**Second Semester**

EET 301	Electric Circuit Analysis II	4
ETC 200	Impact of Communications Technology on Society LI	3

ETC 211	Applied Engineering Mechanics Statics	3
MAT 262	Technical Calculus III	3
HU, SB, and awareness area course		3
Total		16

- <sup>1</sup> Both PHY 111 and 113 must be taken to secure S1 or S2 credit
- <sup>2</sup> 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.

**COMPUTER ENGINEERING TECHNOLOGY (CET)**

**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*

**CET 256 "C" Programming for Engineering Technology. (3) F, S, SS**

Applied and practical problem solving using the "C" programming language. Prerequisite: ETC 100

**CET 336 Programming in Visual BASIC. (3) S**

Introduction to BASIC and programming in the Visual BASIC environment. Prerequisite: CET 256

**CET 350 Digital Logic Principles. (4) F, S**

Combinational and sequential logic analysis design concepts and applications. Lecture/lab. Prerequisite: CET 150

**CET 354 Microprocessor Principles. (4) F, S**

Microprocessor organization, programming and interfacing. Prerequisite: CET 150

**CET 386 Operating Systems Principles. (3) S**

Fundamentals of operating systems, process management, scheduling and synchronization techniques. memory and file management, protection and security issues. Prerequisite: CET 256

**CET 426 Software Tools for the Semiconductor Industry. (3) S**

Introduction to software tools commonly used in the semiconductor industry such as SUPREM IV, PSPICE, VERILOG C, and CED Cross-stated as UET 426. Prerequisite: UET 331.

**CET 452 Digital Logic Applications. (4) S**

Design of sequential machines using system design techniques and complex MS/LS devices with lab. Prerequisite: CET 350

**CET 454 Microcontrollers. (4) S**

Microcontroller interfacing organization, programming, and structure. Lecture, lab. Prerequisite: CET 354

**CET 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

**CET 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

**CET 458 Digital Computer Networks. (3) A**

Network technology, topologies, protocols, control techniques, reliability, and security. Prerequisite: CET 354.

**CET 473 Digital/Data Communications. (4) F, S**

Signals, distortion, noise, and error detection/correction. Transmission and systems design. Interface techniques and standards. Lecture, lab. Prerequisite: CET 354, EET 372

**CET 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

**CET 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. Prerequisite: CET 350; EET 310

**CET 486 Electronics Computer-Aided Design. (3) F**

CAD EHDL for digital logic simulations and electronic circuit designs. Various software packages will be used. Prerequisite: CET 350; EET 310

**CET 487 Hardware Description Languages: VERILOG. (3) F**

Introduction to hardware description languages. digital modeling and simulation techniques using the VERILOG HDL. Prerequisite: CET 350, 354.

**CET 520 Computer Architecture. (3) F**

The basics of computer architecture. RTN, RISC, CISC concepts. computer arithmetic, ALUs, memory systems, I/O. Prerequisite: CET 354

**CET 552 Digital Systems Design. (3) S**

Digital system design techniques and applications. Prerequisite: CET 452 or instructor approval.

**CET 556 Windows Programming. (3) F**

Programming techniques in the MS Windows and X Windows environments. Prerequisite: CET 256 or equivalent

**NOTE** For the General Studies requirement, codes (such as L1, N3, C, and H), and courses see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

**CET 557 Microcomputers and Applications.** (3) F

Applications of microcomputer systems, main and microcomputer hardware and software  
Prerequisites: CET 354/ CSE 100 or 183  
EET 310

**CET 583 UNIX Utilities Using "C" Language II.** (3) S

"C" language applications using the UNIX operating system. A so Fourth Generation languages and other UNIX utilities. Prerequisite: graduate standing in technology

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

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

### ELECTRONICS ENGINEERING TECHNOLOGY (EET)

**EET 205 Electronic Devices and Circuits.** (4) F S

Active device characteristics, modes and basic circuit analysis. Lecture/lab. Prerequisite: ETC 201

**EET 208 Electric Circuit Analysis I.** (4) F S  
Electrical modes: AC/DC steady-state analysis of first and second order systems. Circuit theorems. Three phase circuits. Lecture/lab. Prerequisite: MAT 261

**EET 301 Electric Circuit Analysis II.** (4) F S  
Analysis of continuous time signals and linear systems of using Laplace and Fourier response of circuits. Lecture/lab. Prerequisite: EET 208. Prerequisite: MAT 262

**EET 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

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

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

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

**EET 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

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

**EET 407 Electrical Power Systems.** (4) F

Electrical power systems analysis, generation, transmission, distribution and utilization including system protection on. Lecture/lab. Prerequisite: EET 208

**EET 410 Electronic Circuits II.** (3) F S

Analysis and design of OP-amps, power amplifiers and digital logic families. Feedback design using frequency response. Computer analysis and design. Prerequisites: EET 301, 310

**EET 420 Analog Filters and Applications.** (3) A

Active and passive analog filter design. Frequency domain approximation, computer simulations using PSPICE. Lecture/lab. Prerequisites: EET 301, 410

**EET 422 Electronic Switching Circuits.** (4) A

Analysis and design of electronic circuits operating in a switching mode. Wave shaping, timing and logic. Computer simulation. Lecture/lab. Prerequisites: CET 350, EET 301, 310.

**EET 430 Instrumentation Systems.** (4) F

Measurement principles and instrumentation techniques. Signal and error analysis. Lecture/lab. Prerequisites: EET 301, 310

**EET 440 Electrical Power Systems Technology.** (4) S

Principles and analysis of rotating machines, transformers, and related control equipment. Lecture/lab. Prerequisite: EET 407

**EET 460 Power Electronics.** (4) S

Analysis of circuits for control and conversion of electrical power and energy. Lecture/lab. Prerequisites: EET 301, 310, 407

**EET 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 simulation. Lecture/lab. Prerequisites: EET 372, MAT 262

**EET 478 Digital Communication Systems.** (3) S

Theory, design and application of digital data and fiber optics communication systems. Prerequisites: EET 304, 372, MAT 262

**EET 482 Industrial Practice: Internship/Coop.** (1-4) F, S, SS

Special assignment or approved activities in electronics industries or institutions. Report required. May be repeated for up to a maximum of 10 credits. Prerequisites: Electronics Engineering Technology major, junior or senior standing

**EET 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.

**EET 500 Research/Writing.** (2) F S

Designed to help master's students develop their projects and write the first three chapters of their projects. Lecture, seminar. Prerequisite: instructor approval

**EET 501 Digital Signal Processing and Applications I.** (3) F

Applications of discrete time signals and systems, design of FIR and FFT filters using computer aided design techniques. Prerequisites: EET 401 (or instructor approval), MAT 262

**EET 502 Digital Signal Processing and Applications II.** (3) S

Applications of FFT, fundamentals of probability theory and random processes, and quantization effects on digital filters. Prerequisite: EET 501

**EET 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

**EET 508 Digital Real-Time Control.** (3) A

Sample data control techniques and applications to process control. Prerequisites: CET 354, EET 406

**EET 510 Linear Integrated Circuits and Applications.** (3) F

Analysis, applications and design of linear integrated circuits and systems. Prerequisites: CET 350, EET 301, 310.

**EET 522 Digital Integrated Circuits and Applications.** (3) S

Analysis, applications and design of integrated circuits and systems. Prerequisites: CET 350, EET 301, 310.

**EET 530 Electronic Test Systems and Applications.** (3) F

Analysis, applications and design of electronic test equipment, test systems, specifications and documentation. Prerequisites: CET 354; EET 301, 310

**EET 540 Electrical Power Systems.** (3) S

Electrical power system analysis, transmission, distribution, instrumentation, protection and related system components. Prerequisites: EET 301, 407.

**EET 560 Industrial Electronics and Applications.** (3) S

Analysis, design and application of special electronic devices and systems to industrial control, power, communication and processes. Prerequisites: CET 350, EET 301, 310, 407

**EET 574 Microwave Amplifier-Circuits Design.** (3) F

Analysis and design of microwave amplifier circuits using parameter theory and computer aided design. Prerequisites: EET 304, 470

**EET 576 Modern Telecommunication Systems.** (3) F

Applied design and integration of microwave and satellite communication systems. Prerequisites: CET 473 and MAT 262 or instructor approval

**EET 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. Prerequisite: CET 354, EET 401.

**EET 579 Digital Image Communication.** (3) S

Image capture, transform, compression, storage and transmission. Computer environment (software and hardware) provided to emphasize the practical aspect. Prerequisite: EET 401 or instructor approval

**MICROELECTRONICS  
ENGINEERING TECHNOLOGY (UET)**

**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

**UET 411 Applied Vacuum Technology.** (3) S  
Fundamentals, applications, and practical aspects of vacuum systems and their uses in semiconductor fabrication. Prerequisite: UET 331

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

**UET 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

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

**UET 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

**UET 421 Applied Device Physics.** (3) F  
Band structures of solids, physics of current carriers in solids, pn junctions, MOS and bipolar transistors. Prerequisite: senior standing in the department

**UET 424 Integrated Circuit Mask Making Technology.** (3) F  
Fundamentals, applications, and techniques for the fabrication of integrated circuit masks. Prerequisite: UET 331

**UET 426 Software Tools for the Semiconductor Industry.** (3) S  
Introduction to software tools commonly used in the semiconductor industry such as SUPREM IV, PSPICE, V E WLOG C, and ICED. Cross listed as CET 426. Prerequisite: UET 331

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

**UET 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

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

**UET 513 VLSI Circuit Design and Layout.** (3) F  
Techniques and practice for the design and layout of very large scale integrated (VLSI) circuits. Emphasis on "system on a chip" using tools for computer-aided design layout seminar. Prerequisite: UET 416

**UET 516 Semiconductor Process Simulation and Integration.** (3) S  
Modern IC processes and process integration; design of modern IC processes using SUPREM. Lecture, lab. Prerequisite: UET 416

**UET 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.

**UET 521 Device Physics.** (3) F  
Band structure of solids, electron hole pairs, mobility, lifetime, Fermi level, pn junctions, diodes, and bipolar and MOS transistors. Prerequisite: graduate standing in the department

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**Department of  
Information and  
Management Technology**

Thomas E. Schildgen  
*Chair*  
(CNTR 92) 602/727-1781  
FAX 602/727-1684

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**PROFESSORS**

DUFF, H LD,  
HOROWITZ, SCHILDGEN

**ASSOCIATE PROFESSORS**

BARCHILON, GROSSMAN, HIRATA,  
HUMBLE, MATSON, OLSON

**LECTURERS**

LESTAR, WILSON

**PURPOSE**

The mission of the department is to prepare graduates who are able to develop and communicate technological solutions to industrial problems, to manage systems operations, to improve and evaluate products, to provide customer support, and to facilitate technology transfer in industry and government. 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. Technology includes the application of science, systematic methods, procedures, machines, communication protocols, and materials control for the development, improvement, and implementation of state of the art solutions to industrial problems.

**DEGREES**

The faculty in the Department of Information and Management Technology offer the B.S. degree in Industrial Technology with options in the following areas: information technology, environmental technology management, and industrial technology management.

A Master of Technology degree is offered for graduate study. For more information about the graduate program, see the *Graduate Catalog*.

**Degree Requirements**

The curriculum consists of First Year Composition, university General Studies (see pages 84-108), and technical courses. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses. The technical part of the curriculum includes a required Information and Management core, program option course work, and technical electives selected with approval of an advisor. Information and Management Technology students are required to complete a minimum of 128 semester hours with a 2.00 cumulative GPA, including a minimum of 50 semester hours of upper-division courses to graduate.

**Information and Management Core**

Required courses follow:

ETC 100	Languages of Technology N3 .....	4
IMC 233	Desktop Publishing and Infographics .....	3
IMC 331	Quality Assurance .....	3
IMC 346	Management Dynamics .....	3
IMC 396	Professional Orientation .....	1
IMC 470	Project Management .....	3
Total	.....	17

**Information Technology Option.** The information technology option prepares students for positions in the communication and information technology

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**NOTE** For the General Studies requirement, codes (such as L1, N3, C, and H) and courses, see pages 84-108. For graduation requirements, see pages 79-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

industry. Students are prepared in technical/digital media production; information management; printing and publishing; operations management; quality assurance; customer service and marketing; digital imaging; computer graphics; 3D modeling, technical graphics and illustration, rendering and animation/special effects; Internet/Intranet operations; and computer based training. Graduates understand seamless communications from traditional print to digital/multimedia, Web design and development, database management, and corporate communications. The information technology option has three areas of emphasis: graphic communications, interactive computer graphics, and technical communications.

**Graphic Communications Emphasis Area.** The purpose of the graphic communications emphasis is to prepare students 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 knowledge and skills. The program has been specifically designed to produce graduates with a complete understanding of graphic image processing, image presentation, and the use of electronic image manipulation and storage techniques. Graduates have the skills to address the requirements of the print and image manipulation environments. They also are prepared to exploit opportunities and competitive challenges taking place in the digital information industry. Each graduate is also prepared to manage the turbulent economic and human relations concerns associated with modern business. Each student is exposed to practical and effective problem solving techniques currently used in industry. As a prerequisite for graduation, students are expected to acquire job related industry experience. Typical career paths may include operations management, sales and marketing, and technology.

**Interactive Computer Graphics Emphasis Area.** The purpose of the interactive computer graphics emphasis is to prepare students for entry into the diverse field of computer graphics. The emphasis is on computer applications as a foundation in technological processing and dissemination of information. Modern information management in-

cludes discipline specific applications of graphic analysis, communication, databases, design, documentation, image generation, modeling, programming, visualization, and multimedia presentation. Graduates are qualified computer graphics technologists who have acquired extensive knowledge and technical competency, thereby preparing them to advance into professional positions in the industry. The courses are industry responsive and evolve at the fast pace of the technology. Typical career paths may include: animation and multimedia creation, applications management, and supervision; information process design (specialty areas such as electronics, advertising/graphics design, process simulation, rendering and illustration, and computer aided design and drafting); graphics systems and database analysis; technical graphics and publication; and testing and implementation.

**Technical Communications Emphasis Area.** The purpose of the technical communications emphasis is to prepare students for a variety of professional positions in technical writing and corporate communications. Proposal writing, publication design, database management, and online publications provide diverse opportunities for career employment.

**Environmental Technology Management Option.** The environmental technology management option provides graduates entering the field of industrial and hazardous waste management with the abilities and skills required to address environmental challenges. Graduates are prepared to conduct site assessments, select technologies for soil and ground water remediation, and design solutions to environmental problems for industries, regulatory agencies, and consulting firms.

**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. Participation in the certifi-

cate program is available in three options: a certificate program for nondegree students, a B.S. degree in Industrial Management with a Certificate in Hazardous Materials and Waste Management, and a Master of Technology with a Certificate in Hazardous Materials and Waste Management. Students must complete seven selected courses (five required and two electives) and earn a grade of "C" or higher to receive the certificate. Except for the introductory course, ETM 501 Principles of Hazardous Materials and Waste Management, the remainder of the courses may be taken in any sequence.

**Industrial Technology Management Option.** The industrial technology management option prepares students for supervisory and administrative positions in industry, manufacturing, and public service organizations. Course work includes accounting, data analysis, economics, effective decision making, finance, international business, legal and ethical studies, marketing, operations management, and safety. Emphasis is placed on health and safety within the workplace.

The industrial technology management program may be articulated with a broad range of community college technical courses. Community college specializations in areas such as aeronautics, construction, electronics, fire science, police science, graphic communications, hazardous materials and waste management, computer graphics, safety and health, human resource management, mortuary science, production management, and manufacturing may form a technical specialty area within the industrial technology management option. Consultation with an advisor is required to coordinate the course selection for transfer to this option.

#### COMPUTER GRAPHIC COMMUNICATIONS (CGC)

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

**CGC 210 Creative Thinking and Design Visualization.** (3) F Fundamental methods, concepts, and techniques of creative thinking, design visualization, and problem solving. Also includes communication, cultural, and societal influences. Lecture, lab. Prerequisite: ETC 100

**CGC 211 Digital Imaging Video and Audio Technologies.** (3) F

Digital video and audio technology systems, standards, procedures and techniques for capturing, editing, mixing, and producing creative non-linear media. Lecture/lab. Prerequisite: ETC 100

**CGC 212 Computer-Aided Design and Drafting (CADD).** (3) S

CADD for product design, representation, and documentation; includes project on theory, descriptive geometry, graphics analysis, drafting standards, and precision dimensioning techniques. Lecture/lab. Prerequisite: ETC 100 or instructor approval. *General Studies: N3.*

**CGC 213 Digital Media Technologies: Hardware, Software, and Peripherals.** (3) S

The study of the computer technology systems, hardware, software, and peripherals used in the computer graphics and digital media environments. Lecture, lab. Prerequisite: ETC 100 or instructor approval

**CGC 237 Design for Digital Imaging.** (3) S

Introduction to design principles, typography, and document development of graphic images for printing, CD-ROM databases, and World Wide Web applications. Lecture/lab. Prerequisite: CGC 135 or equivalent.

**CGC 310 Computer Graphics Programming (C++).** (3) F, S

Computer graphics software programming techniques and Windows applications in C++, 2D and 3D graphics, object-oriented programming, transformations, scaling, and database concepts. Lecture, lab. Prerequisite: ETC 100 or equivalent "C" language programming course or instructor approval. *General Studies: N3.*

**CGC 311 Communication and Media Ethics, Law, and Copyright.** (3) F

Study and analysis of copyright and intellectual property laws, regulations, and ethical standards, including ownership, privacy, security, and distribution issues. Lecture/lab. Prerequisite: ETC 200.

**CGC 312 3D Computer Graphics Modeling and Representation.** (3) F

3D solid modeling applications: concepts, techniques, database structures, modeling strategies, assemblies, mass-properties analysis, kinematics, data file exchange specifications, and representation. Lecture, lab. Prerequisite: CGC 212 or instructor approval. *General Studies: N3*

**CGC 313 Technical Illustration and Photorealistic Rendering.** (3) F

Computer-generated graphics for technical illustration and design presentation: axonometric and perspective drawing, shading, shadowing, texture mapping; and photorealistic rendering. Lecture, lab. Prerequisite: CGC 312 or instructor approval

**CGC 314 Multimedia Design, Planning, and Storyboards.** (3) S

Studying the creative and conceptual process of content selection, planning, designing, flowcharting, storyboarding, proposing, configuring, prototyping and presenting multimedia projects. Lecture, lab. Prerequisites: CGC 210 and 237 and 311 or instructor approval

**CGC 332 Image Assembly and Plate Preparation.** (3) F

Imposition of film or digital images for reproduction using various image carriers direct to press technology. Lecture/lab/field trips. Prerequisite: CGC 135.

**CGC 333 Offset Press Technology.** (3) S

Function of offset printing equipment. Dynamics of offset lithography for both sheetfed and web systems. Lecture, lab. Prerequisite: CGC 332 or instructor approval.

**CGC 334 Image Capture and Conversion.** (3) F

Theory and application of image capture techniques used for all copy formats and conversion processes required for reproduction or dissemination. Lecture, lab. Prerequisite: CGC 135

**CGC 335 Printing and Finishing Technology.** (3) N

Analysis of production bindery and finishing procedures in combination with the theory of flexography and screen process printing. Prerequisite: CGC 135

**CGC 336 Color Theory and Reproduction.** (3) S

Analysis of color theory and separation techniques used for the reproduction of color originals. Lecture, lab. Prerequisite: CGC 334

**CGC 339 Estimating and Cost Analysis.** (3) S

Management decisions on making and cost finding procedures for product on processes, includes analysis of equipment, labor, and material costs. Prerequisite: CGC 135.

**CGC 351 Technical Writing and Editing.** (3) F, S

Effective style, format and organization of technical material; editing principles and practices: copyediting versus substantive editing; and document management. Prerequisite: ENG 102

**CGC 352 Technical Presentations and Visual Literacy.** (3) S

Planning, technology, and delivery of individual and group presentations for impromptu, informative and persuasive applications. Prerequisite: ENG 102

**CGC 410 Graphics User Interfaces and Database Programming (C++).** (3) F, S

GUI design and programming. Window standards, protocols, tools and files. Use of project managers, database components, visual libraries and OOPS. Lecture, lab. Prerequisites: CGC 310 (or equivalent C++ language programming course) and 314 or instructor approval

**CGC 411 Computer Animation and Special Effects (FX).** (3) F

2D and 3D computer animation principles and methods: project planning, scripting, character generation, storyboards; and modeling, lighting, rendering, special effects, and plug-in techniques. Lecture/lab. Prerequisites: CGC 313 and 314 or instructor approval

**CGC 412 Multimedia Authoring, Scripting, and Production.** (3) F

Production of multimedia projects using authoring software applications: including project management, client considerations, interactive navigation, cross-platform testing, and documentation issues. Lecture/lab. Prerequisites: CGC 314 and 336 and 352 and 411 or instructor approval

**CGC 413 Professional Portfolio Design and Presentation.** (3) S

Digital media portfolio, planning, targeted audience(s), design appearance, authoring, packaged media formats, media presentation formats, production, marketing, and copyright considerations. Lecture/lab, field trips. Prerequisites: CGC 411 and 412 or instructor approval

**CGC 414 Web Site Design and Internet/Web Technologies.** (3) S

Web site design, authoring standards, protocols, tools and development techniques; HTML, CGI and Perl coding; Web servers, browsers, interfaces and URLs. Lecture, lab. Prerequisites: CGC 311 and 314 or instructor approval

**CGC 415 Computer Graphics: Business Planning and Management Issues.** (3) S

Implementation planning, feasibility and application studies, needs assessment and operational analysis techniques; organization, managerial and technology considerations; business plan development. Lecture, lab, field trips. Prerequisite: CGC 412 or instructor approval

**CGC 416 Emerging Computer Graphics and Digital Media Technologies.** (3) S

Emerging computer graphics and digital media technologies and databases: VR/VRML; inverse kinematics; FX plug-ins; hybrid modeling; Web intermedia; GIS/mapping. Lecture/lab, field trips. Prerequisite: CGC 410 and 411 or instructor approval

**CGC 417 JavaScript, VBScript, HTML, and ActiveX Programming.** (3) S

Use of JavaScript, VBScript, HTML, and ActiveX software programs and standards to create customized, interactive, Internet/Web site applications. Lecture/lab. Prerequisites: CGC 410 and 412 and 414 or instructor approval

**CGC 433 Graphic Production Processes.** (3) N

Systematic production planning experience involving a mock enterprise and defined management responsibilities. Lecture, lab. Prerequisites: CGC 333, 334

**CGC 436 Gravure Technology.** (3) S

In-depth study of the market profile and production sequences related to the gravure method of printing. Prerequisite: CGC 135 or instructor approval

**CGC 437 Color Reproduction Systems.** (3) F

Scientific analysis for the engineering of color reproduction systems used in industry. Prerequisite: CGC 336.

**CGC 438 Graphic Arts Techniques and Processes.** (3) N

Survey of production sequences and profile of the printing and publishing industry. Lecture, lab. Prerequisite: junior standing

**NOTE** For the General Studies requirement, codes (such as L1, N3, C and H), and courses, see pages 84–108. For graduation requirements, see pages 79–83. For omnibus courses offered but not listed in this catalog, see pages 56–57.

**CGC 439 Digital Prepress.** 3 N

The study of digital prepress systems hardware, software, networks and direct maging technology Lecture lab Prerequisite MC 233

**CGC 510 Computer Graphics Programming: Design, Customization, and Development.** 3) N

Advanced design, development and documentation of Windows application programs, including GUIs OOP RAD API DLLs and GD n C++ and Java Lecture lab Prerequisites CGC 310 and 410 (or equivalent GU OOP course) or instructor approval

**CGC 511 Procedural and Physically Based Character Animation.** (3) N

Create and aesthetic design storyboard, planning, development, and documentation of constraint based, procedural and interactive character avatar actor, and product animations. Lecture lab Prerequisites CGC 411 and 510 (or equivalents or instructor approval)

**CGC 512 Multimedia-Based Education and Training.** (3) F, SS

Creative design planning development, documentation and production of technology based learning and multimedia based education and training materials and programs Lecture lab Prerequisites CGC 412 and 413 (or equivalents or instructor approval)

**CGC 513 Computer Graphics Systems Design and Development.** 3 N

Research, design and development of computer graphics systems involves project proposal scheduling management production, analysis, testing evaluation documentation, and implementation Lecture lab, field trips Prerequisites CGC 414 and 415 or instructor approval

**CGC 514 Interactive Virtual Reality Environments and Technologies.** 3) N

Research and development of passive, exploratory, and interactive VR environments in education and training (not Internet/ Web and VRML programming and simulation arenas. Lecture lab, field trips Prerequisites CGC 510 and 511 and 513 (or equivalents) or instructor approval

**CGC 537 Current Issues in Quality Assurance.** (3) N

Directed group study of selected issues relating to quality assurance in the printing publishing and information industry

**CGC 538 Personnel Development for the Graphics Industry.** (3) N

Employee training and development specific to production and management in the graphics industry

## ENVIRONMENTAL TECHNOLOGY MANAGEMENT (ETM)

**ETM 301 Environmental Management.** 3 F

Focuses on knowledge and skills necessary to manage environmental programs Perspectives include regulatory, individual corporate and consulting Pre- or corequisites: CHM 113 MAT 170

**ETM 302 Water and Wastewater Treatment Technology.** 3 F

Explores the development of treatment technologies Addresses regulatory standards Emphasizes theory and practice of system design Pre- or corequisite: ETM 301.

**ETM 303 Environmental Regulations.** 3 F S

Explanation of environmental laws regulations and directives Air and water are addressed. Prerequisite: ETM 301.

**ETM 401 Hazardous Waste Management.** (3) F S

Definition of hazardous waste RCRA classification and OSHA criteria Overview of requirements and methods of waste management Prerequisite: ETM 301.

**ETM 402 Unit Treatment Technologies.** (3) S

Addresses various treatment technologies for contaminated air water and soil Emphasizes design based upon medium type of contamination and concentration Prerequisite: ETM 302

**ETM 406 Environmental Chemistry.** (3) F S

Examines reactions transport, and fates of hazardous chemicals in water soil air, and living organisms. Prerequisites: CHM 113 and 115 or CHM 114 MAT 170

**ETM 407 Occupational Hygiene.** (3) S

Overview of occupational health hazards, including recognition evaluation and control includes regulatory status and health standards Prerequisites: CHM 101 (or 113 or 114) MAT 170

**ETM 424 Comprehensive Emergency Management.** 3) SS

Addresses theory and management techniques for emergency preparedness including mitigation, preparedness response and recovery Pre- or corequisite: ETM 301

**ETM 426 Environmental Issues.** 3) S

Explanation of the science and policy implications of contemporary problems that threaten the environment. Pre- or corequisites: CHM 113 MAT 170

**ETM 428 International Environmental Management.** 3 SS

Emphasizes on technological and economic pressures experienced by developing countries Prerequisite: ETM 301

**ETM 501 Principles of Hazardous Materials and Waste Management.** (3) F

Foundation for courses in curriculum Top concepts include definitions of toxic and hazardous substances and wastes RCRA classification and OSHA criteria Pre- or corequisites: CHM 113 and 115 or CHM 114

**ETM 502 Regulatory Framework for Toxic and Hazardous Substances.** 3) F

Examination of federal state and local regulations for hazardous materials and wastes Includes history and trends in regulatory development. Prerequisite: ETM 501.

**ETM 503 Principles of Toxicology.** (3) S

Interaction of chemicals with life and environment Mechanisms of toxic action, dose response relationships toxicology testing models predictive toxicology and epidemiology Prerequisites: CHM 113 and 115 or CHM 114

**ETM 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 or CHM 114 ETM 501.

**ETM 505 Quantitative Analysis and Practical Laboratory Techniques.** (3) F, S

EPA methodologies for sampling and analysis of soils and water includes quality assurance and regulatory requirements Lab will be arranged off site Prerequisites: CHM 113 and 115 (or CHM 114 231 MAT 170

**ETM 506 Chemistry of Hazardous Materials.** (3) F

Chemistry and toxicology of hazardous chemicals Topics include proper handling storage transportation and disposal Prerequisites: CHM 113 and 115 (or CHM 114 MAT 170 Corequisite: CHM 231

**ETM 507 Industrial Hygiene.** (3) N

Emphasis on chemical hazards in industrial settings. Topics include recognizing and measuring hazards control techniques, and regulatory standards Prerequisites: CHM 113 and 115 (or CHM 114 MAT 170

**ETM 522 Air Pollution and Toxic Chemicals.** (3) F

Examines issues in the measurement analysis and control of toxic chemicals in a population Prerequisites: CHM 113 and 115 or CHM 114; ETM 501; MAT 170.

**ETM 523 Soils and Groundwater Contamination.** (3) F

Theoretical and practical hydrogeology as it applies to clean up contamination Investigative techniques, monitoring risk assumptions and assessment methodology Prerequisites: CHM 113 and 115 or CHM 114; ETM 501 MAT 170 Corequisite: CHM 231.

**ETM 524 Emergency Preparedness, Response, and Planning for Hazardous Materials.** (3) SS

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 (or CHM 114) ETM 501 MAT 170

**ETM 525 Risk Assessment for Hazardous Materials.** (3) S

Application of the risk assessment process in situations ranging from hazardous facilities regulation to toxic substances in the environment Prerequisites: CHM 113 and 115 (or CHM 114), ETM 501 MAT 170

**ETM 526 Current Issues: Radon, Asbestos.** 3) F

Topics of current interest in environmental technology and management Prerequisites: CHM 113 and 115 (or CHM 114), ETM 501 MAT 170

**ETM 527 Environmental/Resources Regulations Concepts.** (3) S

Development of environmental regulations from common law to statutory requirements Emphasis on Superfund hazardous materials toxics and liability contracts Pre- or corequisite: ETM 501

**INFORMATION AND MANAGEMENT CORE (IMC)****IMC 233 Desktop Publishing and Infographics.** (3) F, S

Introduction to software and hardware used for desktop publishing and infographics. Lecture, lab.

**IMC 331 Quality Assurance.** (3) S  
Instrumentation and methodologies for materials testing and quality control in various manufacturing processes. Lecture, field trips.

**IMC 346 Management Dynamics.** (3) F, S  
Management challenges and the leadership skills needed to achieve organizational objectives in the changing industrial and technical environments. Prerequisite: junior standing.

**IMC 396 Professional Orientation.** (1) F, S  
Senior advisement, industry presentations, and career counseling.

**IMC 470 Project Management.** (3) S  
Introduction to techniques for managing small groups within larger organizations, including team building, motivating, planning, tracking activities, and computer tools. Prerequisites: ECN 111; IMC 346; ITM 344.

**INDUSTRIAL TECHNOLOGY MANAGEMENT (ITM)****ITM 343 Occupational Safety and Ergonomics.** (3) F

Health and safety movement, accident theories and effects, OSHA standards and liability, safeguarding, hazards, workers' compensation, ergonomics, and safety. Prerequisite: junior standing.

**ITM 344 Industrial Organization.** (3) S  
Industrial organization concepts. Topics relate to industrial relations, governmental regulations, organizational structure, labor relations, human factors, and current industrial practices. Prerequisite: IMC 346.

**ITM 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. Prerequisite: IMC 346.

**ITM 430 Ethical Issues in Technology.** (3) S  
Topics in social responsibility for industrial technology and engineering. Prerequisite: IMC 346.

**ITM 440 Introduction to International Business.** (3) S  
International business principles and operations, including partnerships, trade agreements, currency issues, international sales, and cultural differences between countries. Prerequisite: IMC 346.

**ITM 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. Pass/fail. Prerequisites: advisor approval; junior standing; 2.50 GPA.

**ITM 451 Materials Control.** (3) N  
Activities of material handling, including purchasing, receiving, warehousing, traffic, plant layout, inventory, and production control and shipping relating to technical procedures. Prerequisites: IMC 346; ITM 343.

**ITM 452 Industrial Human Resource Management.** (3) F

Concepts and practices of human resource management in a global industrial environment. Prerequisite: IMC 346.

**ITM 453 Safety Management.** (3) N  
Development and management of safety programs, education and training, and relationships within an organization. Prerequisite: ITM 343 or instructor approval.

**ITM 455 Industrial Marketing Concepts.** (3) N  
Customer and sales strategies for industrial organizations, including current practice and future planning. Prerequisites: ECN 111; IMC 346; junior standing.

**ITM 456 Introduction to Organized Labor.** (3) S  
Introduction to labor relations, unions, federations, collective bargaining, grievances, and labor legislation. Prerequisites: IMC 346; ITM 344.

**ITM 461 Operations Management.** (3) F  
Introduction to supervisory principles as applied to production of goods and services. Prerequisites: IMC 346; ITM 344.

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

**ITM 501 Managerial Economics.** (3) N  
Basic managerial economic tools and techniques applied to unique concerns of scientifically intensive firms operating in rapidly evolving industrial sectors.

**ITM 502 Financial Management.** (3) N  
Examination of corporate financial and managerial accounting systems, budgeting, and financial policy, using microcomputers to analyze, forecast, and report information.

**ITM 503 Marketing Management.** (3) N  
Modern methods and industrial case studies of planning, pricing, promoting and distributing, goods and services in the global marketplace. Prerequisites: ITM 480 (or equivalent); instructor approval.

**ITM 504 Law and Ethics for Technical Professionals.** (3) N

Analysis of legal and ethical framework for making managerial decisions in the corporate environment of engineering- and technology-related industries.

**ITM 520 Strategic Management of Technology.** (3) N  
Analysis of entrepreneurial dynamics and technology development, methods of research and development management, new technology implementation, and start-up organization. Prerequisites: ITM 480 (or equivalent); instructor approval.

**ITM 540 International Management.** (3) N  
Practices and procedures for effective management of multinational business organizations, including partnerships, joint ownerships, and global subsidiaries.

**ITM 548 Quantitative Research Methods.** (3) F, S  
Use of statistical techniques to analyze and interpret data. Concentration on computerized statistical software and practical applications. Prerequisite: STP 420.

**ITM 549 Research Techniques and Applications.** (3) F, S  
Selection of research problems, analysis of literature, individual investigations, preparing reports, and proposal writing. Prerequisite: STP 420 or equivalent.

**ITM 550 Industrial Training and Development.** (3) N  
Training techniques and learning processes. Planning, developing, evaluating, and managing industrial and governmental programs. Prerequisite: ITM 480.

**ITM 552 Global Management Philosophies.** (3) N  
Analysis and comparison of significant supervision philosophies developed in various industrial nations and their potential application in the United States.

**ITM 560 Managerial Decision Making.** (3) F  
Analysis of common decision-making bias and techniques to overcome them. Uses both subjective quantitative decision tools and computerized decision aids.

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



Charles Brownson, ASU East's director of library services, demonstrates the capabilities of the virtual library to East Campus students Matt Cochran (center) and Anja Hassell (right).

Tim Trumble photo



**Department of  
Manufacturing and  
Aeronautical  
Engineering Technology**

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**LECTURER**  
OKONKWO

**PURPOSE**

The mission of the Department of Manufacturing and Aeronautical Engineering Technology is to emphasize the application of applied engineering practice in the manufacturing and aerospace fields through four-year degree programs in Manufacturing Engineering Technology and Aeronautical Engineering Technology. This is accomplished by the intense application of math and science principles to the solution of technical problems in a lecture/laboratory environment. The goal of the Manufacturing Engineering Technology program is to prepare students for employment in areas such as materials, mechanics, design, manufacturing processes, automation, and quality control. The department actively supports the student chapter of the Society of Manufacturing Engineers. The purpose of the Aeronautical Engineering Technology program is to prepare students for employment in areas such as aircraft and aerospace vehicle design, applied thermodynamics, fluid mechanics and aerodynamics, propulsion, aerospace manufacturing and wind tunnel testing.

**ACCREDITATION**

The programs of Manufacturing Engineering Technology and Aeronautical Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (TAC of ABET).

**DEGREES**

The Department of Manufacturing and Aeronautical Engineering Technology offers two baccalaureate degrees: the B.S. degree in Manufacturing Engineering Technology and the B.S. degree in Aeronautical Engineering Technology.

A Master of Technology degree is offered for graduate study. See the *Graduate Catalog* for more information about the graduate programs.

**Degree Requirements**

All degree requirements for the program are shown on curriculum check sheets. Requirements include First Year Composition, university General Studies (see pages 84-108), and the Engineering Technology core. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses. To graduate students are required to complete a minimum of 128 semester hours with a 2.00 cumulative GPA, including at least 50 semester hours of upper division courses.

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

The B.S. degree in Manufacturing Engineering Technology requires 128 semester hours as specified below:

Engineering Technology Core .....	14
First Year Composition .....	6
General Studies/Department Requirements .....	45
Manufacturing Engineering Technology Major .....	52
Selected Emphasis Area .....	11
<b>Total .....</b>	<b>128</b>

The following courses constitute the manufacturing engineering technology major and are required of all manufacturing engineering technology students. Refer to the specific emphasis areas for additional requirements.

**Manufacturing Engineering Technology Major**

EET 406 Control System Technology .....	4
MET 231 Manufacturing Processes .....	3
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 396 Manufacturing Professional Orientation .....	1
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
<b>Total .....</b>	<b>52</b>

A student participating in the Manufacturing Engineering Technology program may select from two areas of emphasis: manufacturing engineering technology or mechanical engineering technology.

**Manufacturing Engineering Technology Emphasis.**

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 emphasis area 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.

Students may select course work that focuses on the implementation of design and manufacturing strategies that favorably impact the environment before manufacturing and during manufacturing. Students 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 are addressed.

Required courses follow:

MET 438 Design for Manufacturing II .....	4
MET 442 Specialized Production Processes .....	3
Technical electives .....	4
<b>Total .....</b>	<b>11</b>

**Mechanical Engineering Technology Emphasis.**

The primary objective of the mechanical engineering technology emphasis area is to prepare students 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. Students obtain a well-rounded academic background with an emphasis in mechanics and thermal sciences.

Required courses follow:

AET 415 Gas Dynamics and Propulsion	3
MET 434 Applied Fluid Mechanics	3
MET 438 Design for Manufacturing II	4
Approved technical elective	1
Total	11

All degree requirements for the program are shown on curriculum check sheets. Requirements include First Year Composition, university General Studies (see pages 84–108), and the Engineering Technology Core. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses. To graduate students are required to complete a minimum of 128 semester hours with a 2.00 cumulative GPA, including at least 50 semester hours of upper-division courses.

**Aeronautical Engineering Technology—B.S.**

The B.S. degree in Aeronautical Engineering Technology degree requires 128 semester hours as specified below:

Aeronautical Engineering Technology Major	63
Engineering Technology Core	14
First Year Composition	6
General Studies/Department Requirements	45
Total	128

The following courses constitute the Aeronautical Engineering Technology major and are required of all Aeronautical Engineering Technology students.

**Aeronautical Engineering Technology Major**

AET 150 Introduction to Aeronautical Engineering Technology	1
AET 210 Measurement and Testing	3
AET 215 Mechanics of Aerospace Systems	3
AET 300 Aircraft Design I	3
AET 312 Applied Engineering Mechanics Dynamics	3
AET 396 Aerospace Professional Orientation	1

AET 415 Gas Dynamics and Propulsion	3
AET 417 Aerospace Structures	3
AET 420 Applied Aerodynamics and Wind Tunnel Testing	4
AET 432 Applied Heat Transfer	3
AET 487 Aircraft Design II	3
CET 483 UNIX Utilities Using "C" Language (Or other language program)	3
EET 406 Control System Technology	4
MET 230 Engineering Materials and Processing	3
MET 300 Applied Material Science	4
MET 313 Applied Engineering Mechanics Materials	4
MET 331 Design for Manufacturing I	3
MET 432 Thermodynamics II	3
MET 434 Applied Fluid Mechanics	3
MET 438 Design for Manufacturing II	4
Technical elective	2
Total	63

**AERONAUTICAL ENGINEERING TECHNOLOGY (AET)**

*Flight instruction costs are not included in university tuition and fees*

- AET 150 Introduction to Aeronautical Engineering Technology.** (1) F Introduction to the fields of aeronautical engineering and engineering technology
- AET 210 Measurements and Testing.** (3) F Measurement systems, components, system response, and the characteristics of experimental data. Lecture lab. Prerequisites: MET 230; PHY 112, 114.
- AET 215 Mechanics of Aerospace Systems.** (3) S Basic physics of flight. Principles and design of aircraft systems and powerplants. Lecture, lab. Prerequisite: AET 210.
- AET 300 Aircraft Design I.** (3) F S Basic applied aerodynamics, propeller performance, and airplane performance analysis. Prerequisites: AET 210 and 215 (or AMT 280 and 287) ETC 100 MAT 260 PHY 112 114
- AET 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
- AET 312 Applied Engineering Mechanics: Dynamics.** (3) F, S Masses, motion kinematics dynamics of machinery. Prerequisites: ETC 211, MAT 261.
- AET 396 Aerospace Professional Orientation.** (1) F Career focus for Aeronautical Engineering Technology students. Familiarization with the aerospace industry. Prerequisite: junior or standing.

**AET 409 Nondestructive Testing and Quality Assurance.** (1) N Purpose of inspection and quality assurance. Theory and application of nondestructive inspection methods. Application of pertinent standards, specifications and codes. Lecture lab. Cross listed as AMT 409. Prerequisite: AMT 280 or MET 230.

**AET 415 Gas Dynamics and Propulsion.** (3) F Introduction to compressible flow internal and external flow and aerothermodynamic analysis of propulsion systems. Prerequisites: ETC 340 MAT 262

**AET 417 Aerospace Structures.** (3) F Analysis and design of aircraft and aerospace structures. Shear flow. Semi-monocoque structures. Effects of dynamic loading. Prerequisites: AET 300, 312 420 MAT 262 MET 313

**AET 420 Applied Aerodynamics and Wind Tunnel Testing.** (4) F Introduction to viscous and inviscid flow and their relationship to aircraft lift and drag. Wind tunnel design and testing. Lecture lab. Prerequisites: AET 300, MAT 262

**AET 432 Applied Heat Transfer.** (3) F Steady-state and transient conduction, heat transfer by convection and radiation. Applications of heat transfer. Prerequisite: MET 434 or instructor approval

**AET 487 Aircraft Design II.** (3) S Basic aerodynamics and airplane performance analysis methods applied to practical design project. Prerequisite: AET 300

**AET 490 Advanced Applied Aerodynamics.** (3) N Study of fluid motion and aerodynamics. Essentials of incompressible aerodynamics and computational fluid dynamics. Elements of laminar and turbulent flows. Prerequisites: AET 312, ETC 100, MAT 262.

**AET 524 Application of Heat Transfer.** (3) F Energy conservation, steady-state and transient conduction convection transfer free and forced convection Reynolds analogy, black body and environmental radiation. Prerequisite: MET 434 or instructor approval.

**AET 525 Advanced Propulsion.** (3) S Mechanics and thermodynamics of propulsion systems. Solid, liquid propellant rocket design performance. Electrical nuclear propulsion systems. Space missions. Prerequisites: AET 420 (or MET 434) and 415 or instructor approval

**AET 531 Experiments and Design in Aeronautics.** (3) N Advanced measurement techniques for fluid flows, wind tunnel testing, and treatment of experimental data. Automatic control systems

**AET 560 Numerical Methods in Engineering Technology.** (3) N Analyzing problems in physical sciences, modeling of physical problems, perturbation techniques, curvefitting, data analysis, numerical solutions ordinary and partial differential equations

**NOTE** For the General Studies requirement codes (such as L1 N3, C and H) and courses see pages 84–108 For graduation requirements, see pages 79–83 For omnibus courses offered but not listed in this catalog see pages 56–57

## MANUFACTURING ENGINEERING TECHNOLOGY (MET)

### MET 230 Engineering Materials and Processing. (3) F S SS

Materials, their structures, properties, fabrication on characteristics and applications. Material forming joining, and finishing processes. Automation and quality control.

**MET 231 Manufacturing Processes.** (3) F  
Metal removal processes emphasizing drilling, milling and lathe processes, including tool bit grinding. Emphasis on production speeds and feeds. Lecture/lab.

**MET 300 Applied Material Science.** (4) F  
Principles of materials science emphasizing concepts relevant to manufacturing and use. Discuss metals, polymers, ceramics and composites. 3 hours lecture, 1 hour lab. Prerequisite: MET 231 or instructor approval.

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

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

**MET 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.

**MET 321 Engineering Evaluation of Welding Processes.** (3) N  
Theory and application of the arc welding processes and oxy-fuel cutting, fixturing, procedures, safety, codes and experimental techniques are covered. Lecture/lab. Prerequisite: MET 302, PHY 112.

**MET 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.

**MET 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.

**MET 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, bearing linkages, cylindrical fits, flat pattern development and surface finish requirements emphasized. Prerequisite: MET 313.

**MET 341 Manufacturing Analysis.** (3) S  
Introduction to the organization and functional requirements for effective production. Includes writing production operation plans. Prerequisite: MET 231.

**MET 343 Material Processes.** (4) S  
Industrial processing as applied to low, medium and high volume manufacturing. Basic and secondary processing, fastening and joining, coating and quality control. Lecture/lab.

### MET 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 and 313 or instructor approval.

### MET 345 Advanced Manufacturing Processes. (3) S

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

**MET 346 Numerical Control Point to Point and Continuous Path Programming.** (3) N  
Methods of programming, set up, and operation of numerical control machines, emphasizing lathe and mill systems. Lecture/lab. Prerequisite: MET 231.

**MET 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. Prerequisites: MAT 170, PHY 111; nonmajor.

**MET 396 Manufacturing Professional Orientation.** (1) F  
Career focus for Manufacturing Engineering Technology students. Familiarization with the manufacturing industry. Prerequisite: junior or standing.

**MET 401 Statistical Process Control.** (3) S  
Introduction to statistical quality control methods as applied to processes, process control, sampling, and reliability. Prerequisite: MAT 117 or 170.

### MET 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*

**MET 420 Welding Metallurgy I.** (4) N  
Metalurgical principles applied to structural and alloy steel and aluminum weldments, laboratory emphasis on welding experiments, metallography, and mechanical testing. Lecture/lab. Prerequisites: MET 300, 302.

**MET 421 Welding Metallurgy II.** (3) N  
Metalurgical principles as applied to stainless steel, superalloy, titanium and other refractory metal weldments and braze joints. Prerequisite: MET 300.

**MET 425 Welding Codes.** (2) N  
Familiarization with and application of the various codes, standards and specifications applicable to weldments. Prerequisite: MET 302 or equivalent.

**MET 432 Thermodynamics II.** (3) S  
Thermodynamics of mixtures. Combustion process. Applications of thermodynamics to power and refrigeration cycles. Prerequisite: ETC 340.

**MET 433 Thermal Power Systems.** (4) N  
Analysis of gas power, vapor power, and refrigeration cycles. Components of air conditioning systems. Direct energy conversion. Psychrometry. Analysis of internal combustion engines and fluid machines. Lecture/lab. Prerequisite: MET 432 or instructor approval.

**MET 434 Applied Fluid Mechanics.** (3) N  
Fluid statistics. Basic fluid flow equations. Viscous flow properties and channels. Compressible flow. Applications to fluid measurement and flow in conduits. Prerequisite: ETC 340.

**MET 435 Alternate Energy Sources.** (3) F  
Alternate energy systems, energy use and its impact on the environment and demonstrating practical alternative energy sources to fossil fuels. Prerequisite: instructor approval.

**MET 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.

**MET 438 Design for Manufacturing II.** (4) F  
Application of mechanics in 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.

**MET 442 Specialized Production Processes.** (3) F  
Nontraditional manufacturing processes emphasizing EDM, ECM, ECG, CM, PM, HERF, EBW, and LBW. Prerequisite: MET 231.

**MET 443 N/C Computer Programming.** (3) F  
Theory and application of computer-aided N/C languages with programming emphasis with APT and suitable postprocessors. Lecture/lab. Prerequisite: MET 346 or instructor approval.

**MET 444 Production Tooling.** (3) F  
Fabrication and design of jigs, fixtures, and special industrial tooling related to manufacturing methods. Lecture/lab. Prerequisite: MET 345.

**MET 448 Expert Systems in Manufacturing.** (3) F  
Introduction to expert systems through conceptual analysis with an emphasis on manufacturing applications. Prerequisite: MET 231.

**MET 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.

**MET 452 Implementation of Robots in Manufacturing.** (3) N  
Robotic workcell design, including end effectors, parts presenters, and optimum material flow. Prerequisite: MET 451 or instructor approval.

**MET 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.

**MET 460 Manufacturing Capstone Project I.** (3 F)

Small group projects to design, evaluate and analyze components, assemblies and systems. Lecture, lab. Prerequisite: MET 30 or instructor approval.

**MET 461 Manufacturing Capstone Project II.** (3 S)

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

**MET 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 32, 313.

**MET 501 Statistical Quality Control Applications.** (3 S)

SPC problem-solving techniques for implementation in industrial settings design and analysis of experiments. Prerequisite: instructor approval.

**MET 502 Specialized Production Processes.** (3 F)

Specialized production processes including lasers, electron beam, abrasive and water jet and chemical and thermal processes. Prerequisite: instructor approval.

**MET 504 Applications of Production Tooling.** (3 F)

Design and fabrication of fixtures, jigs, templates and specialized industrial tooling for manufacturing. Lecture, lab. Prerequisite: instructor approval.

**MET 507 Manufacturing Enterprise.** (3 F, 3 S)

Organization and project management of cellular manufacturing method including IT and lean manufacturing. Prerequisite: instructor approval.

**MET 512 Introduction to Robotics.** (3 N)

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

**MET 513 Advanced Automation.** (3 F)

Analysis and design of hard and flexible automation systems. Particular attention to material handling technology. Prerequisite: instructor approval.

**MET 514 N/C Computer Programming.** (3 S)

Point-to-point and continuous path control system programming emphasizing meta-replicative procedures and processes. Lecture/lab. Prerequisite: instructor approval.

**MET 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.

**MET 560 Fundamentals of Security Engineering.** (3 F)

Definitions of threats, fundamental aspects of design of physical protection systems, computer modeling and analysis of security systems.

**MET 571 Waste Minimization and Waste Prevention.** (3 S)

Lifecycle analysis selection of environmentally compatible materials, design of waste minimization equipment and operation, economic cost of waste minimization and prevention. Prerequisite: ETC 340 or instructor approval.

**School of Agribusiness and Resource Management**

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**PROFESSORS**

CHALQUEST, EDWARDS, GORDON  
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**ASSOCIATE PROFESSORS**

RACCACH, SEPERICH

**ASSISTANT PROFESSORS**

PATTERSON, RICHARDS, STANTON

**PURPOSE**

The School of Agribusiness and Resource Management (SABR) provides academic programs that combine business and technology. It is the business of food and fiber production and the technology necessary to change a raw material (a commodity) or an idea into a new product or business for the world's consumers. Producing, financing, marketing, and providing food and fiber for the world amounts to more than one-half of the Earth's global economy.

Agribusiness 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. More than 20 percent of all jobs in the United States are agribusiness related, and the industry is even more important internationally, with more than half of all jobs in emerging countries related to food and fiber products. Population increases

worldwide have led forecasters to predict that more than 11 billion food and fiber consumers will be part of the global agribusiness system by the year 2020. Forecasts also estimate that, at that time, more than 20,000 agribusiness jobs will go unfilled due to a lack of skilled professionals.

The academic programs in agribusiness are especially designed to meet the needs of the urban student who has little or no previous agriculture experience. An interest in plants, animals, or food 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 (CAPS) 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. For more information, contact the director of the Center for Agribusiness Policy Studies at 602 727 1583.

**National Food and Agricultural Policy Project**

The National Food and Agricultural Policy Project (NFAPP) constructs a 10-year baseline forecast for the fruit and vegetable produce industry and specific commodities, responds to congressional inquiries concerning policies affecting the fruit and vegetable industry, and publishes a monthly newsletter highlighting research efforts. Current areas of study include domestic and international promotion of fruits and vegetables, trade and the impact of trade agreements, crop insurance and risk management, and the use of neural network models in forecasting. For more information, contact the director of the National Food and Agricultural Policy Project at 602 727 1334.

**NOTE** For the General Studies requirement codes such as L1, N3, C, and H, and courses, see pages 84-108. For graduation requirements, see pages 9-83. For omnibus courses offered but not listed in this catalog, see pages 56-57.

**DEGREES**

The faculty in the School of Agribusiness and Resource Management offer the B.S. degree in Agribusiness with concentrations in general agribusiness (with options in food industry/food science and international agribusiness and preveterinary medicine.

An M.S. degree in Agribusiness is also offered by the school. The program includes research and 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**

The School of Agribusiness and Resource Management admits students who meet the undergraduate admission requirements of Arizona State University (see "Admission Requirements" on pages 60–62).

**GRADUATION REQUIREMENTS**

The completion of a minimum of 120 semester hours including First Year Composition, university General Studies (see pages 84–108), and the school and major requirements leads to the B.S. degree. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses. An overall GPA of 2.00 is required. Of the semester hours required for graduation, a minimum of 45 semester hours must be up per division. Also see special graduation requirements under the "Preveterinary Concentration Requirements" described on this page.

**First-Year Composition**

Most students will meet the First Year Composition requirement by completing ENG 101 and 102 (First-Year Composition—6 semester hours). International students from non-English speaking countries may take ENG 107 and 108 (English for Foreign Students—6 semester hours) instead. Students who place into ENG 105 (Advanced First-Year Composition—3 semester hours) may complete the requirement with that course alone.

**Prerequisite Courses**

Students who wish to major in Agribusiness should take the following courses, which can also be used to meet General Studies requirements (as indicated in italics):

BIO 100	The Living World <i>SI/S2</i> . . . . .	4
	or BIO 181 General Biology <i>SI S2 4</i> )	
CHM 101	Introductory Chemistry <i>SI/S2</i> . . . . .	4
	or CHM 113 General Chemistry <i>SI/S2 (4</i>	
ECN 111	Macroeconomic Principles <i>SB</i> . . . . .	3
ECN 112	Microeconomic Principles <i>SB</i> . . . . .	3
ENG 301	Writing for the Professions <i>L1</i> . . . . .	3
MAT 210	Brief Calculus <i>N1</i> . . . . .	3
	A course in statistics <i>N2</i> . . . . .	3
	A course in computer literacy <i>N3</i> . . . . .	3
Total	. . . . .	26

**General Agribusiness Concentration.**

A student selecting the general agribusiness concentration may focus on general agribusiness or choose an option in food industry and food science or in international agribusiness.

*Food Industry/Food Science.* A student studying agribusiness could be preparing for a career in the food industry as a food technologist. Students will learn to develop the world's food products and ensure their safety through mastery of courses in food design, food manufacturing processes, and food safety.

*International Agribusiness.* A student studying agribusiness could be preparing for a career in international agribusiness. This option requires a mastery of courses in domestic and global economics, commodity trading and financing, international monetary exchange, and other global business subjects.

General agribusiness concentration requirements include

**SABR Core**

AGB 300	Livestock Management . . . . .	3
AGB 310	Crop Management . . . . .	3
Total	. . . . .	6

**Agribusiness Concentration Core**

AGB 312	Agribusiness Marketing . . . . .	3
AGB 332	Agribusiness Finance I . . . . .	3
AGB 342	Agribusiness Management I . . . . .	3

AGB 364	Agribusiness Technology . . . . .	3
AGB 390	Agribusiness Accounting . . . . .	3
	or ACC 230 Accounting I (3)	
AGB 444	Agribusiness Analysis <i>L2</i> . . . . .	3
Total	. . . . .	18

An additional 15 semester hours of upper division agribusiness courses are required for all agribusiness degrees. See the curriculum check sheet in the department for a selection of courses. Faculty advisor approval is required.

Fifteen semester hours of departmental electives are also required. See faculty or departmental advisor for approved courses.

**Preveterinary Medicine Concentration.**

A student studying agribusiness could also be preparing for admission to a professional veterinary school. While the student is completing the courses needed for acceptance into veterinary school he or she is broadening his or her career potential with agribusiness courses. The major reason for lack of success of a professional veterinarian is rarely bad medicine or science. It is often a lack of knowledge of how to run a business or practice. In addition, should a preveterinary student decide not to apply to a veterinary school, this major provides alternative career paths into human or veterinary pharmaceutical industries or the food industry.

Selection of this concentration permits students to complete the preveterinary requirements for entrance to professional veterinary medical schools in the United States and Canada. The curriculum permits the student to obtain some course work in agribusiness as it relates to professional practice and industry.

**Preveterinary Concentration Requirements**

**SABR Core**

AGB 300	Livestock Management . . . . .	3
AGB 310	Crop Management . . . . .	3
Total	. . . . .	6

**Preveterinary Core.** Students who wish to major in Agribusiness with a preveterinary concentration should take the following courses, some of which may also be used to meet General Studies requirements (as indicated in italics).

**NOTE** For the General Studies requirement codes (such as L1, N3, C, and H), and courses see pages 84–108. For graduation requirements see pages 79–83. For omnibus courses offered but not listed in this catalog see pages 56–57.

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 <sup>1</sup> . . . . .	4
		or CHM 331 General Organic Chemistry, and CHM 335 General Organic Chemistry Laboratory, and CHM 332 General Organic Chemistry, and CHM 336 General Organic Chemistry Laboratory (8)	
MAT	117	College Algebra <i>NI</i> . . . . .	3
		or MAT 210 Brief Calculus (3)	
MIC	206	Microbiology Laboratory S2 <sup>2</sup> . . . . .	1
MIC	220	Biology of Microorganisms . . . . .	3
		Additional agribusiness courses . . . . .	15
Total			43

<sup>1</sup> Both CHM 231 and 235 must be taken to secure S1 or S2 credit.

<sup>2</sup> Both MIC 205 and 206 must be taken to secure S2 credit.

**Veterinary College Acceptance**

Some schools of veterinary medicine will admit students who have completed the entrance requirements but have not completed their baccalaureate degree. Pre-veterinary students can use the first year of veterinary school to ward a B.S. in Agribusiness if that course work combined with course work taken at ASU or elsewhere meets all ASU graduation requirements. Students must receive a written statement from the Dean of the School of Agribusiness and Resource Management giving senior in absentia privileges.

A student is eligible to receive the B.S. degree after the Office of the Registrar receives a recommendation from the dean of the veterinary medicine 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 higher. Students should see an advisor in the School of Agribusiness and Resource Management for further information.

**AGRIBUSINESS (AGB)**

**AGB 101 Global Resources.** (3) F, S  
Dependence of the quality, quantity, and cost of national food supplies on technology, marketing, and world agricultural policies.

**AGB 150 Animal Science.** (3) F  
Comparative growth, development, and propagation of farm animals. Lecture, lab

**AGB 160 Veterinary Medicine Today.** (3) S  
Introduction to the role of the veterinarian as related to the feeds of food supply and veterinary medicine

**AGB 250 World Food Dynamics.** (3) S  
Transition and development of raw agricultural commodities into nutritional food products. Emphasis given to food expansion in developing countries. *General Studies G*

**AGB 258 International Agribusiness.** (3) F  
Identification and analysis of methods, problems, and future of international agribusiness operations. Emphasizes special problems associated with international agribusiness systems. *General Studies G*

**AGB 300 Livestock Management.** (3) F  
Methods of managing livestock enterprises: economics, loss prevention and marketing. Prerequisite: BO 100

**AGB 302 Introduction to Agribusiness.** (3) N  
Impact of national policy and world agriculture on the cost, quantity and quality of the U.S. food resources.

**AGB 305 Cultural Diversity in Agribusiness.** (3) S  
Promotes the awareness and appreciation of cultural diversity within the U.S. through the study of cultural and social contributions in agribusiness of women and minorities

**AGB 310 Crop Management.** (3) S  
Crop production management principles and the application to crop growth and development

**AGB 312 Agribusiness Marketing.** (3) F  
Marketing arrangements for agricultural products. Prerequisite: ECN 111

**AGB 332 Agribusiness Finance.** (3) F  
Agribusiness investment management and financial institutions that serve agriculture. Prerequisite: ACC 230 or AGB 390.

**AGB 335 Establishing an Agribusiness.** (3) F  
Establishing entrepreneurship in agriculture: including legal status, financing, planning, marketing and management

**AGB 342 Agribusiness Management I.** (3) F  
Principles of management: including planning, organizing, integrating, measuring, and developing people in agribusiness organizations

**AGB 353 Wildlife and Domestic Animal Nutrition.** (3) S  
Feedstuffs, feeding standards and the application in meeting nutritional needs of animals producing food and fiber.

**AGB 364 Agribusiness Technology.** (3) F  
Biotechnology and other technologies of the three sectors of agribusiness: including input production and commodity and food processing and distribution. Prerequisite: BO 100

**AGB 368 Food Processing.** (3) N  
An introduction to processed food quality assurance, statistical sampling and inspection procedures. Prerequisite: AGB 364.

**AGB 369 Food Analysis.** (3) N  
Processing control and scientific instrumentation used in food quality assurance laboratories. Lecture/lab. Prerequisite: CHM 101.

**AGB 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

**AGB 402 Agricultural Cooperatives.** (3) N  
Organization, operation and management of agricultural cooperatives

**AGB 404 Sales and Merchandising in Agribusiness.** (3) SS  
The principles and techniques of selling and commodity merchandising in the agricultural industries

**AGB 412 Agricultural Commodities.** (3) F  
Trading on futures markets. Emphasis on the hedging practices with grains and meats. Prerequisite: AGB 312 or 1 marketing or finance course

**AGB 413 Agribusiness Finance II.** (3) S  
Advanced agribusiness investment management and financial practices

**AGB 414 Advanced Commodity Trading.** (3) N  
Advanced analysis of trading techniques, with emphasis on hedging in the futures markets. Prerequisite: AGB 412 or 413

**AGB 423 Food and Industrial Microbiology.** (3) N  
Food and industry related microorganisms: deterioration and preservation of industrial commodities. Lecture/lab. Prerequisite: M.C. 205 or 206 or instructor approval

**AGB 424 Food and Industrial Fermentations.** (4) N  
Management manipulation and metabolic activities of industrial microorganisms and their processes. Lecture/lab. Prerequisite: AGB 423 or instructor approval

**AGB 425 Food Safety.** (3) N  
Control, prevention, and prediction of microbial and chemical foodborne diseases. Prerequisite: AGB 423 or instructor approval

**AGB 426 Food Chemistry.** (4) N  
The biochemical and chemical interactions that occur in raw and processed food. Lecture/lab. Prerequisite: CHM 115 231

**AGB 428 Comparative Nutrition.** (3) N  
Effects of nutrition on animal systems and metabolic function. Prerequisite: CHM 231

**AGB 433 Diseases of Domestic Animals.** (3) S  
Control and prevention of infectious and non-infectious diseases of domestic animals. Prerequisite: M.C. 206 or 220

**AGB 435 Animal Physiology I.** (3) N  
Control and function of the nervous, muscular, cardiovascular, respiratory and renal systems of domestic animals. Prerequisites: BO 181, CHM 113

**AGB 439 Veterinary Practices.** (3) F, S  
Observation of and participation in veterinary medicine and surgery supervised by occupational veterinarians. Prerequisite: advanced pre-veterinary student

**AGB 440 Food Marketing.** (3) S  
Food processing, packaging distribution, market research, new food research and development and social implications. Prerequisite: AGB 312

**AGB 443 Agribusiness Management II.** (3) S  
Principles of human resource management with emphasis on the special problems of agribusiness systems.

**AGB 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. *General Studies: L2.*

**AGB 450 International Agricultural Development.** (3) S

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

**AGB 453 World Agricultural Resources.** (3) SS

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

**AGB 454 International Agricultural Trade.** (3) S

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

**AGB 455 Agricultural Marketing Channels.** (3) F

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

**AGB 460 Agribusiness Management Systems.** (4) S

The development and use of decision support systems for agribusiness management and marketing. Lecture, lab.

**AGB 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.

**AGB 490 Recent Advances in Agribusiness.** (1) F, S

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

**AGB 505 Commodity Analysis.** (3) N

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

**AGB 508 Advanced Agribusiness Marketing.** (3) F

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

**AGB 509 Advanced Agribusiness Marketing Channels.** (3) S

Analysis of agribusiness market channel systems. Formulation of marketing strategies.

**AGB 510 Advanced Agribusiness Management I.** (3) F

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

**AGB 511 Advanced Agribusiness Management II.** (3) S

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

**AGB 512 Food Industry Management.** (3) S

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

**AGB 516 International Agricultural Techniques.** (3) N

Coordination of production and marketing techniques to consumption objectives with agricultural products in foreign countries.

**AGB 518 World Agricultural Development.** (3) N

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

**AGB 520 Advanced Agribusiness Analysis I.** (4) S

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

**AGB 521 Agribusiness Coordination.** (4) N

Organizational alternatives for agribusiness, with emphasis on cooperatives and trading companies. Lecture, recitation. Prerequisite: AGB 508 or 510.

**AGB 525 Advanced Agribusiness Management Systems.** (3) N

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

**AGB 527 Agribusiness Research Methods.** (3) N

The use of model building, hypothesis testing, and empirical analysis in solving agribusiness problems. Prerequisite: basic statistics course.

**AGB 530 Advanced Agribusiness Policy.** (3) N

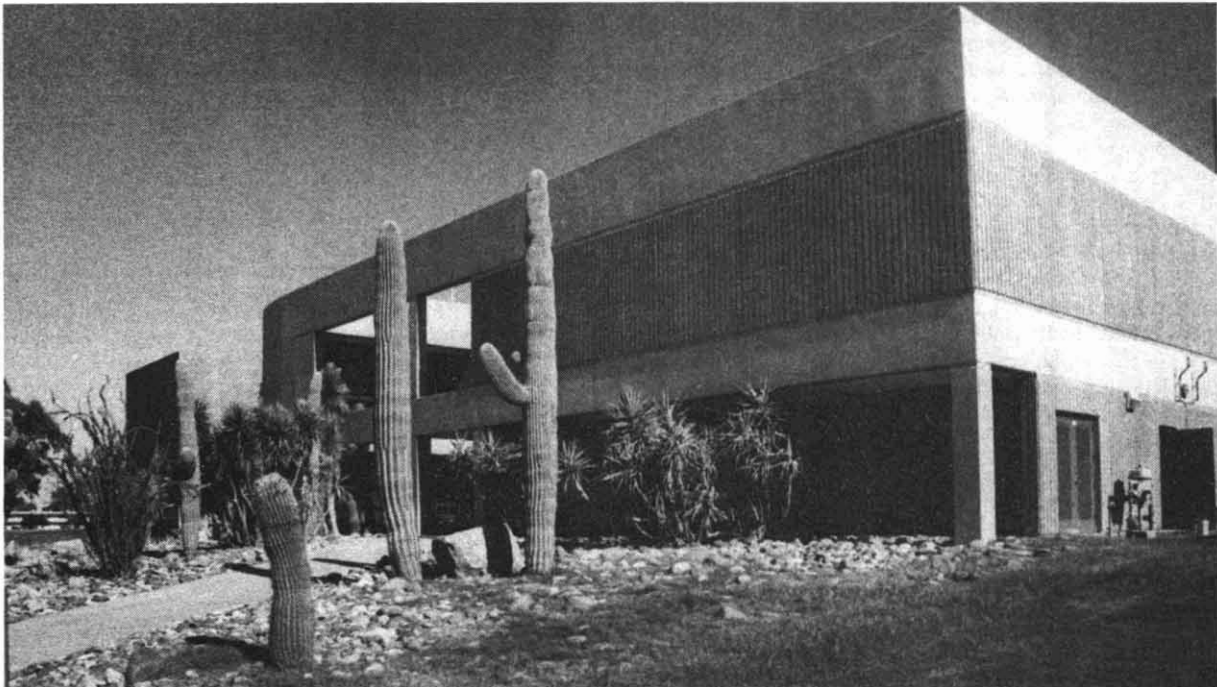
Policy-making history, structure, and process. Prerequisite: AGB 342.

**AGB 532 Advanced Agribusiness Finance.** (3) F

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

**AGB 535 Advanced Food Science.** (3) N

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



ASU East flight simulator facility.

Jim Painter photo





# ASU East Directory

For the "ASU Main Directory," see pages 528-530.  
 For the "ASU West Directory," see page 537.  
 Unless otherwise stated, the area code is 602.

## Academic Units

Agribusiness and Resource Management, School of	CNTR 20	727-1585
East College	CNTR 30	727-1028
Technology and Applied Sciences, College of	CNTR 10	727-1874
Aeronautical Management Technology, Department of	SIM Bldg-201	727-1775
Electronics and Computer Engineering Technology, Department of	ELAB-LAB	727-1191
	CLRB 157	727-1137
Information and Management Technology, Department of	CNTR 92	727-1781
Manufacturing and Aeronautical Engineering Technology, Department of	SIM Bldg-295B	727-1584

## Administrative

General Information	CNTR Garden Level	727-3278
American Indian Programs	CNTR 52	727-1161
Bookstore	CNTR 102	727-1146
Campus Union	CU	727-1116
Cashiering Services	CNTR 81	727-1081
Computer Commons ASU East	CNTR 150	727-1184
Copy Center	CNTR 147	727-1175
Educational Opportunity Center	CNTR Garden Level	727-1153
Housing, Williams Campus	WCHO Bldg. 7	988-9160
Library Services	CNTR 110	727-1037
OASIS	CNTR ASU Sun Cards	Garden Level 727-3278
	Office of the Registrar	
	Student Business Services	
	Student Financial Assistance	
	Undergraduate Admissions	
	Williams Campus Parking Decals	
Physical Education Center, Williams Campus	WCFC Bldg	988-8400
Provost Office of the	CNTR 30	727-1028
Student Health Services	Veterans Administration Clinic	222-6568
Vice Provost, Academic Programs and Services	CNTR 30	727-1028

# ASU East Administrative and Academic Personnel

## Academic Administration

Provost .....	Charles E. Backus
Vice Provost, Academic Programs and Dean, East College .....	David E. Schwalm
Associate Vice President, Student Affairs .....	Leon G. Shell
Dean, College of Technology and Applied Sciences .....	Albert L. McHenry
Associate Dean, College of Technology and Applied Sciences .....	Lakshmi V. Munukutla
Interim Assistant Dean, College of Technology and Applied Sciences .....	Dale E. Palmgren
Chair, Department of Aeronautical Management Technology .....	William K. McCurry
Chair, Department of Electronics and Computer Engineering Technology .....	Robert W. Nowlin
Chair, Department of Information and Management Technology .....	Thomas E. Schildgen
Chair, Department of Manufacturing and Aeronautical Engineering Technology .....	Dale E. Palmgren
Project Director, International Projects Institute .....	Gary M. Grossman
Dean, School of Agribusiness and Resource Management .....	Raymond A. Marquardt
Assistant Dean, School of Agribusiness and Resource Management .....	Philip G. Stiles
Director, Academic Services .....	Vinette Cowart
Director, Administrative Services .....	Terry C. Isaacson
Director, American Indian Programs .....	Marigold L. Linton
Director, Campus Life Services .....	Gary L. Kleemann
Director, Center for Agribusiness Policy Studies .....	Eric P. Thor
Director, Institutional Advancement .....	Wanda L. Kay
Director, Library Services .....	Charles W. Brownson
Director, Research and Sponsored Projects .....	Jean N. Humphries

# ASU East Faculty and Academic Professionals

## A

**Autore, Donald D.** (1959), Professor Emeritus of Technology; B.S.E., University of Michigan; M.S.E., Arizona State University

## B

**Barchilon, Marian G.** (1989), Associate Professor of Information and Management Technology; B.S., State University of New York, Binghamton, M.S., Northeastern University

**Barrett, Thomas W.** (1950), Professor Emeritus of Agribusiness and Resource Management, B.S., Brigham Young University; M.S., Ph.D., Cornell University

**Biekert, Russell G.** (1993), Associate Professor of Manufacturing and Aeronautical Engineering Technology; B.S., M.S., Southern Illinois University, Ed.D., Arizona State University

**Borrmann, David W.** (1996), Lecturer of Aeronautical Management Technology; B.S., Drexel University, M.A., Arizona 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, ASU East Library Services; Director, ASU East Library Services; B.A., South Dakota State University; M.F.A., University of Oregon; M.L.S., University of California, Berkeley

**Burdette, Walter E.** (1956), Professor Emeritus of Technology; B.S., M.S., Kansas State College of Pittsburg; Ed.D., University of Missouri, Columbia

**Burk, Karl W.** (1949), Professor Emeritus of Technology, B.A., M.A., Arizona State University; Ed.D., Bradley University

## C

**Carlsen, Paul A.** (1978), Professor Emeritus of Technology, B.A.E., M.N.S., Ed.D., Arizona State University

**Cavalliere, William A.** (1946), Professor Emeritus of Technology; B.A., M.A., Arizona State University

**Chalquest, Richard R.** (1971), Professor of Agribusiness and Resource Management; B.S., D.V.M., Washington State University, M.S., Ph.D., Cornell University

**Collins, Donald G.** (1989), Professor of Manufacturing and Aeronautical Engineering Technology; B.Arch., Virginia Polytechnic Institute and State University; M.S., Ph.D., University of Illinois

**Cox, Frank E.** (1972), Professor Emeritus of Technology; B.S.M.E., Purdue University; M.S.E., Arizona State University

## D

**Daneke, Gregory A.** (1982), Professor of Technology and Applied Sciences; B.A., M.A., Brigham Young University; Ph.D., University of California, Santa Barbara

**Duff, Jon M.** (1997), Professor of Information and Management Technology; B.S., M.S., Purdue University, Ph.D., Ohio State University

## E

**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

## F

**Fordemwalt, James N.** (1987), Associate Professor of Electronics and Computer Engineering Technology; B.S., M.S., University of Arizona; Ph.D., Iowa State University of Science and Technology

## G

**Gesell, Laurence E.** (1984), Professor of Aeronautical Management Technology; B.A., Upper Iowa University, M.P.A., University of San Francisco; 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

**Grossman, Gary M.** (1994), Associate Professor of Information and Management Technology; B.A., University of the Pacific; M.S., Ph.D., Purdue University

## H

**Hefner, Stephen P.** (1973), Instructional Professional of Agribusiness and Resource Management, Academic Professional, School of Agribusiness and Resource Management; B.S., Illinois State University; M.S., Arizona State University

**Hild, Nicholas R.** (1983), Professor of Information and Management Technology; B.S.M.E., M.S.Enve., University of Iowa; Ph.D., Union Graduate School

**Hirata, Ernest T.** (1974), Associate Professor of Information and Management Technology; B.A., San Diego State College; Ed.D., Arizona State University

**Horowitz, Renee B.** (1986), Professor of Information and Management Technology; B.A., Brooklyn College; M.A., Ph.D., University of Colorado

**Humble, Jane E.** (1989), Associate Professor of Information and Management Technology; B.S.E., M.S.E., Ph.D., Arizona State University

## J

**Jackson, Andrew E.** (1995), Assistant Professor of Aeronautical Management Technology; B.A., University of Louisville; M.B.A., Embry Riddle Aeronautical University; Ph.D., University of Central Florida

## K

**Kagan, Albert** (1992), Professor of Agribusiness and Environmental Resources; B.S., M.S., Ph.D., Iowa State University of Science and Technology

**Karp, Merrill R.** (1994), Assistant Professor of Aeronautical Management Technology; B.S., Arizona State University; M.A., Central Michigan University; Ph.D. Walden University

**Keith, Marlow F.** (1946), Professor Emeritus of Technology; B.A., M.A., Arizona State University

**Kelley, Donald G.** (1980), Associate Professor of Manufacturing and Aeronautical Engineering Technology; B.S., M.S., Arizona State University

**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

**Kisielewski, Robert V.** (1978), Professor Emeritus of Technology; B.S.M.E., M.S.M.E., University of Wisconsin, Madison

## L

**Lawler, Eugene D.** (1967), Professor Emeritus of Technology; B.S., Northern State College; M.A., Arizona State University

**Lestar, Dorothy Jo** (1996), Lecturer of Information and Management Technology; B.S., Arizona State University

**Lipari, Charles A.** (1995), Assistant Professor of Electronics and Computer Engineering Technology; B.S.E.E., M.S.E.E., University of Southwestern Louisiana, Ph.D., Louisiana State University

**Lytle, Robert G.** (1972), Professor Emeritus of Agribusiness and Resource Management; B.S., Western Kentucky University; M.S., Arizona State University

## M

**Macia, Narciso F.** (1990), Associate Professor of Electronics and Computer Engineering Technology; B.S., M.S., University of Texas, Arlington; Ph.D., Arizona State University

**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

**Maisel, James E.** (1985), Professor of Electronics and Computer Engineering Technology; B.Eng.Sci., B.E.E., Fenn College; M.S.E.E., Ohio State University

**Marquardt, Raymond A.** (1997), Professor of Agribusiness and Resource Management; Dean, School of Agribusiness and Resource Management; B.S., M.S., Colorado State University; Ph.D., Michigan State University

**Matson, John H.** (1978), Associate Professor of Information and Management Technology; B.S., M.S., Illinois State University

**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

**McBrien, Edward F.** (1986), Professor Emeritus of Electronic/Computer Technology; B.S.E., Fenn College; M.S.E.E., Cleveland State University

**McCurry, William K.** (1995), Associate Professor of Aeronautical Management Technology; Chair, Department of Aeronautical Management Technology; B.S., Purdue University; M.S., Troy State University, Ph.D., University of Kansas

**McHenry, Albert L.** (1978), Professor of Technology; Dean, College of Technology and Applied Sciences, B.S., Southern University and A&M College; M.S., Ph.D., Arizona State University

**Miller, Victor J.** (1958), Professor Emeritus of Agribusiness and Resource Management; B.S., M.S., Ph.D., University of Illinois

**Minter, Marshall R. Jr.** (1965), Professor Emeritus of Technology; B.S.M.E., Purdue University; M.S.M.E., University of Arizona

**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

**Munukutla, Lakshmi V.** (1987), Professor of Technology; Associate Dean, College of Technology and Applied Sciences; B.S., M.S., Andhra University (India); Ph.D., Ohio University

## N

**Nowlin, Robert W.** (1990), Associate Professor of Electronics and Computer Engineering Technology; Chair, Department of Electronics and Computer Engineering Technology; B.S.E.E., University of Washington; M.S.E.E., San Diego State University, Ph.D.E.E., Texas Tech University

## O

**O'Brien, Marc H.** (1997), Lecturer of Aeronautical Management Technology; B.A., Boston University; M.S., Indiana State University

**Okonkwo, Charles U.** (1994), Lecturer of Manufacturing and Aeronautical Engineering Technology; B.S., M.S., Iowa State University; Ph.D., University of Florida

**Olson, Larry W.** (1995), Associate Professor of Information and Management Technology; B.S., Baylor University, Ph.D., University of Pennsylvania

## P

**Palmgren, Dale E.** (1984), Associate Professor of Manufacturing and Aeronautical Engineering Technology; Chair, Department of Manufacturing and Aeronautical Engineering Technology, B.S., M.S., Ph.D., University of Wisconsin, Madison

**Pardini, Louis J.** (1967), Professor Emeritus of Technology; B.A., A.M., Idaho State University; Ed.D., University of Northern Colorado

**Patterson, Paul M.** (1995), Assistant Professor of Agribusiness; B.S., Auburn University, M.S., Ph.D., Purdue University

**Pearce, Martha V.** (1977), Professor Emeritus of Technology; B.S., Columbia University; M.S., Boston University; Ed.D., Arizona State University

**Peterson, Edward R.** (1977), Assistant Professor of Electronics and Computer Engineering Technology; B.S.E.E., Fairleigh Dickinson University; M.S.E.E., Arizona State University

**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

## R

**Raccach, Moshe** (1980), Associate Professor of Agribusiness and Resource Management; B.Sc., M.Sc., The Hebrew University (Israel); Ph.D., Cornell University

**Rajadas, John N.** (1996), Assistant Professor of Manufacturing and Aeronautical Engineering Technology; B.Tech., Indian Institute of Technology (India); M.S., Ph.D., Georgia Institute of Technology

**Rasmussen, Robert D.** (1949), Professor Emeritus of Agribusiness and Resource Management; B.S., Iowa State University, M.S., Washington State University

**Reed, William H.** (1968), Associate Professor of Manufacturing and Aeronautical Engineering Technology; B.S., University of Oklahoma; M.S., Arizona State 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, Grant L.** (1953), Professor Emeritus of Agribusiness and Resource Management; B.S., M.S., University of Arizona; Ph.D., Oregon State University

**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

**Roe, Keith B.** (1979), Professor Emeritus of Technology, B.S., Wisconsin State College, M.A., University of Michigan

**Rogers, Bradley B.** (1984), Assistant Professor of Manufacturing and Aeronautical Engineering Technology; B.S., M.S., Montana State University, Ph.D., Arizona State University

**Rook, Fern H.** (1969), Professor Emeritus of Technology; B.A., University of Colorado; M.A., Arizona State University

**Roper, Devon J.** (1966), Professor Emeritus of Aeronautical Technology; B.S., Utah State University, M.S., Arizona State University

## S

**Salmirs, Seymour** (1981), Professor Emeritus of Technology; B.A.E., M.S.A.E., Georgia Institute of Technology

**Schildgen, Thomas E.** (1981), Professor of Information and Management Technology; Chair, Department of Information and Management Technology; B.S., M.S., Illinois State University; Ed.D., Northern Arizona University

**Schmidt, Peter A.** (1978), Associate Professor of Manufacturing and Aeronautical Engineering Technology; B.S., Northern Illinois University; M.A., Ed.D., Arizona State University

**Schwalm, David E.** (1986), Associate Professor of English; Dean of East College, Vice Provost ASUE; B.A., Carlton College; M.S., Ph.D., University of Chicago

**Schoen, Robert A.** (1966), Professor Emeritus of Technology; B.S., M.S., Arizona State University

**Seperich, George J.** (1976), Associate Professor of Agribusiness and Resource Management; B.S., Loyola University, Chicago; M.S., Ph.D., Michigan State University

**Sheller, Don** (1986), Professor Emeritus of Manufacturing Technology; B.M.E., Ohio State University; M.S., Arizona State University

**Spence, Gary L.** (1994), Lecturer of Aeronautical Management Technology; B.S., University of West Florida; M.S., Embry Riddle Aeronautical University

**Stanton, Julie V.** (1996), Assistant Professor of Agribusiness; B.A., Georgetown University; Ph.D., University of Maryland, College Park

**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

**Sundararajan, Rajeswari** (1996), Assistant Professor of Electronics and Computer Engineering Technology; B.S., University of Madras (India); M.S., Indian Institute of Science (India); Ph.D., Arizona State University

**T**

**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

**Thomason, Leslie L.** (1969), Professor Emeritus of Technology; A.B., M.A., Ed.D., University of Oklahoma

**Thor, Eric P.** (1990), Professor of Agribusiness and Environmental Resources; Director, Center for Agribusiness Policy Studies; B.S., M.S., Ph.D., University of California, Berkeley

**W**

**Watkins, Thomas B.** (1972), Professor Emeritus of Technology; B.S., University of Wyoming; M.S., Arizona State University

**Welty, Ellen L.** (1996), Reference/Instruction Librarian, ASU East Library Services; B.A., University of Wyoming; M.L.S., University of Arizona

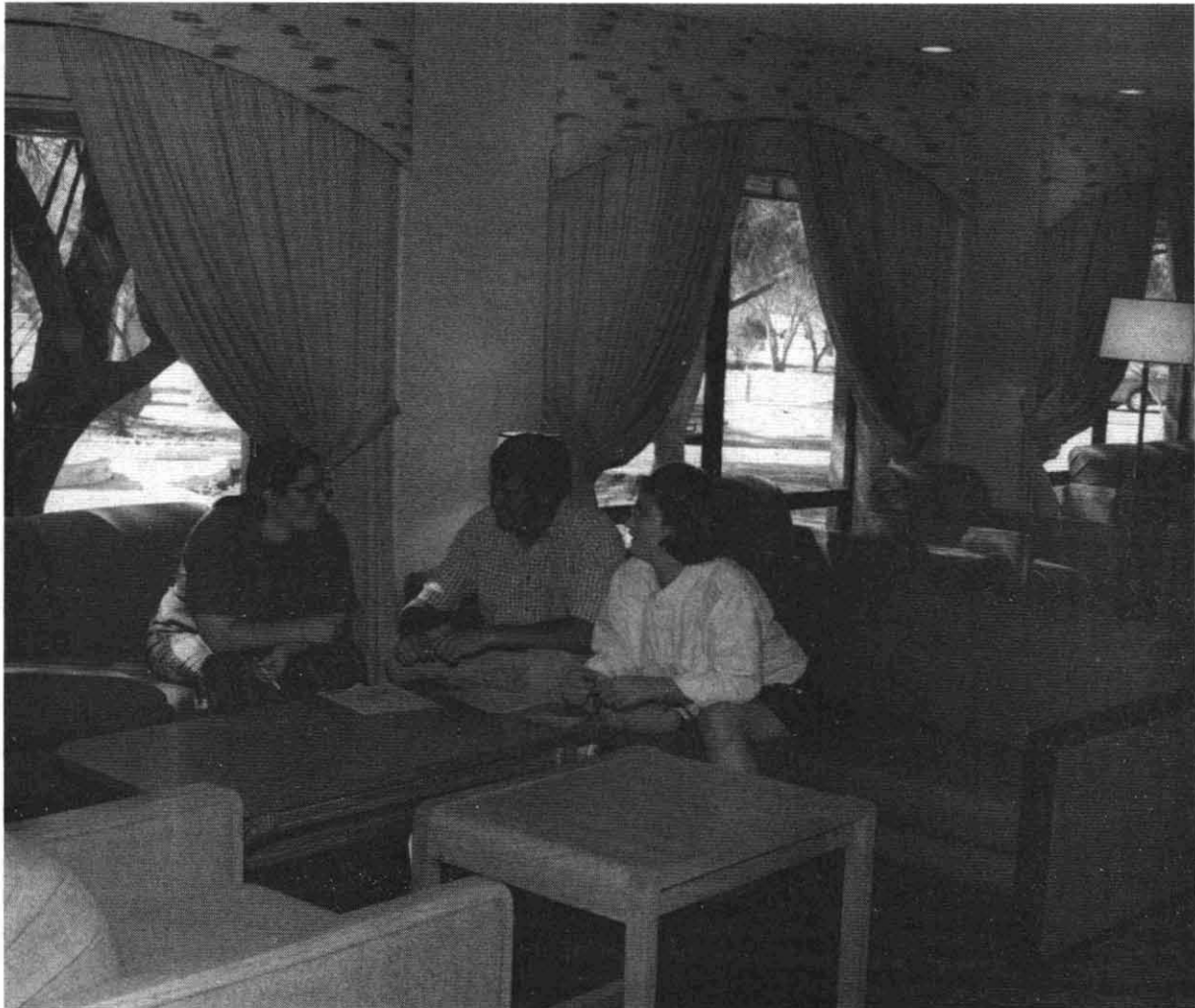
**Wilcox, Sidney W.** (1955), Professor Emeritus of Engineering; B.A., Bethany-Peniel College; M.A., University of Oklahoma

**Wilson, Daniel** (1978), Senior Lecturer of Information and Management Technology; B.S., Drexel University; M.S.E., Ph.D., Arizona State University

**Wood, Billy G.** (1977), Associate Professor of Electronics and Computer Engineering Technology; A.B., University of California; B.S., Eastern Illinois University; M.S., University of Arizona

**Z**

**Zeng, Guoliang** (1991), Associate Professor of Electronics and Computer Engineering Technology; B.S., Chengdu Telecommunication Institute (China); M.S., University of California, San Diego; M.N.S., Ph.D., Arizona State University



East Campus students Deborah Syden (right), Eric Green (center), and LaRae Kendrick take a break in the Oasis, the new student lounge at ASU East.

Tim Trumble photo

# ASU Main 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. Ementi are included.

## A

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- 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 I.** (1967), Associate Librarian, Original Cataloging, B.A., M.L.S., 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 (United Kingdom); B.A., M.A., Ph.D., University of Michigan
- Williams, Stanley N.** (1991), Professor of Geology, B.S., Belmont 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), Senior Lecturer of Theatre; 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, Daniel** (1978), Senior Lecturer of Information and Management Technology; B.S., Drexel University; M.S.E., Ph.D., Arizona State 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 Emeritus 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, 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; A.B., Occidental College; M.B.A., Miami University; Ph.D., University of Michigan; C.F.A.
- Windhorst, Rogier A.** (1987), Professor of Physics and Astronomy, Associate Chair, Department 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), Senior Lecturer of Anthropology, B.A., 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), Professor Emeritus 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. Konstindustriskolan, 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

**Wong, Timothy.** (1995), Professor of Chinese; B.A., Saint Mary's College, M.A., University of Hawaii, Ph.D., Stanford University

**Wood, Billy G.** (1977), Associate Professor of Electronics and Computer Engineering Technology; A.B., University of California; B.S., Eastern Illinois University; M.S., University of Arizona

**Wood, Byard D.** (1970), Professor Emeritus 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 Marketing; 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 Biology, Dean Emeritus, College of Liberal Arts and Sciences and Graduate College, B.S., M.S., University of Utah, Ph.D., University of California, Berkeley

**Wooten, William W.** (1959), Professor Emeritus of History, B.A., University of Chicago, M.A., University of Iowa; Ph.D., University of Minnesota, Twin Cities

**Wootton, Richard T.** (1964), Professor Emeritus of Education; B.S., M.S., Ed.D., University of Utah

**Wotring, Roxena A.** (1994), Clinical Assistant Professor 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, Johnson Kent** 1994, Assistant Professor of Interdisciplinary Humanities, Director of Graduate Studies, B.A., Kalamazoo College, M.A., Ph.D., University of Chicago

**Wright, M. Lin** (1973), Professor Emeritus 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

## Y

**Yabes, Ruth Ammerman** (1990), Associate 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), Assistant Professor of Sociology, B.A., Northwest Christian College; B.D., Texas Christian University; Ph.D., Duke University

**Yancy, Margaret Lee** 1997, Faculty Associate of Nursing, B.S.N., M.S., Arizona State University

**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 Emeritus, Hayden Reference Service, B.A., University of California, Berkeley, M.S., Columbia University

**Yates, Ann M.** 1978, Associate Research Professional of Chemistry and Biochemistry, B.S., Saint 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

**Yeater, James W.** 1958, Professor Emeritus of Theatre, B.A., Baker University; M.A., University of Washington, Ph.D., University of Illinois

**Yoshioka, Carlton F.** 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, Professor of Journalism and Telecommunication, B.A., Konkuk University, South Korea, M.A., Ph.D., Southern Illinois University, Carbondale

**Young, Bernard** (1988), Professor of Art, B.F.A., Tenple University, M.F.A., Ph.D., Cornell University

**Young, Dennis L.** 1975, Professor of Mathematics, B.S., Saint Louis University, M.S., Ph.D., Purdue University

**Young, Hewitt H.** 1967, Professor Emeritus of Industrial and Management Systems Engineering, B.S.M.E., M.S.I.E., Case Institute of Technology, Ph.D., Arizona State University

**Young, Joseph E.** 1979, Professor Emeritus of Art, B.A., California State University at Los Angeles; M.A., University of California, Los Angeles

**Young, Michael Cochise** 1990, Associate Administrative Professional, University Honors College; Associate Dean, University Honors College, B.A., St. Joseph's University; M.A., Ph.D., University of Pennsylvania

**Young, Otis E. Jr.** (1963), Professor Emeritus of History, A.B. A.M., Ph.D., Indiana University

**Youngblood, Robert L.** (1973), Professor of Political Science, B.A., Willamette University; M.A., University of Hawaii, Manoa, Ph.D., University of Michigan

## Z

**Zandieh, Michelle** (1997), Assistant Professor of Mathematics; B.A., Northwestern University; M.S., Ph.D., Oregon State University

**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; Director, Interdisciplinary Ph.D. Program in Justice Studies; Chair, Committee on Law and the Social Sciences, 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

**Zellmer, Linda R.** (1997), Assistant Librarian, Map Collection; B.S., University of Wisconsin, Oshkosh; M.A., The College of William and Mary, M.L.S., University of Wisconsin, Milwaukee

**Zeng, Guoliang** (1991), Associate Professor of Electronics and Computer Engineering 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

**Zhang, Yong-Hang** (1997), Associate Professor of Electrical Engineering; Nanjing Normal University (China), M.Sc., Institute of Semiconductors, Chinese Science and Technology University (China); Ph.D., Max Planck Institut für Festkörperforschung, University of Stuttgart, Germany

**Zhu, Han** (1997), Assistant Professor of Civil and Environmental Engineering, B.S., M.S., Fudan University (China), Ph.D., Northwestern University

**Zimiles, Herbert** (1988), Professor of Educational Psychology; 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

**Ziurys, Lucy M.** (1988), Adjunct Professor of Chemistry and Biochemistry, B.A., 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; B.A., State University of New York, Stony Brook; M.S., Hofstra University; Ph.D., University of Missouri, Columbia

**Zunkel, Gretchen M.** (1997), Assistant Professor of Nursing, B.S.N., University of Colorado; M.N., University of California, M.N., Ph.D., University of Washington

**Zuo, Jian-Min** (1989), Assistant Research Scientist of Physics and Astronomy; B.S., Nanjing University (China); 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

# Regents' Professors

The title "regents' professor" is conferred on selected members of the ASU tenured faculty who have achieved and are sustaining the highest level of distinction by their exceptional contributions to the mission of the university in research or other creative activity and in teaching or professional service.



ASU marker at the corner of Rural Road and Rio Salado Parkway. Tim Trumble photo

**JOHN ALCOCK**

*Regents' Professor of Biology*

**DAVID L. ALTHEIDE**

*Regents' Professor of Justice Studies*

**C. AUSTEN ANGELL**

*Regents' Professor of Chemistry and Biochemistry*

**CONSTANTINE BALANIS**

*Regents' Professor of Electrical Engineering*

**DAVID C. BERLINER**

*Regents' Professor of Educational Leadership and Policy Studies and Psychology in Education*

**PETER R. BUSECK**

*Regents' Professor of Chemistry and Biochemistry and Geology*

**ROBERT B. CIALDINI**

*Regents' Professor of Psychology*

**JEFFREY COOK**

*Regents' Professor of Architecture*

**JOHN M. COWLEY**

*Regents' and Galvin Professor Emeritus of Physics and Astronomy*

**NORMAN DUBIE**

*Regents' Professor of English*

**NANCY H. EISENBERG**

*Regents' Professor of Psychology*

**LEROY EYRING**

*Regents' Professor Emeritus of Chemistry and Biochemistry*

**DAVID K. FERRY**

*Regents' Professor of Electrical Engineering*

**DAVID WILLIAM FOSTER**

*Regents' Professor of Spanish*

**WILLIAM L. GRAF**

*Regents' Professor of Geography*

**RONALD GREELEY**

*Regents' Professor of Geology*

**DAVID R. HICKMAN**

*Regents' Professor of Music*

**DAVID H. KAYE**

*Regents' Professor of Law*

**GARY D. KELLER**

*Regents' Professor of Spanish*

**RAYMOND W. KULHAVY**

*Regents' Professor of Psychology in Education*

**DANIEL M. LANDERS**

*Regents' Professor of Exercise Science and Physical Education*

**SHENG H. LIN**

*Regents' Professor Emeritus of Chemistry and Biochemistry*

**THERESE ANN MARKOW**

*Regents' Professor of Biology*

**JAMES W. MAYER**

*Regents' Professor of Chemical, Bio, and Materials Engineering*

**LEE MEYERSON**

*Regents' Professor Emeritus of Psychology*

**WARREN MILLER**

*Regents' Professor of Political Science*

**CARLETON B. MOORE**

*Regents' Professor of Chemistry and Biochemistry and Geology*

**JEFFRIE G. MURPHY**

*Regents' Professor of Philosophy and Law*

**MICHAEL O'KEEFFE**

*Regents' Professor of Chemistry and Biochemistry*

**CAIO PAGANO**

*Regents' Professor of Music*

**DENNIS J. PALUMBO**

*Regents' Professor of Justice Studies*

**GEORGE R. PETTIT**

*Regents' Professor of Chemistry and Biochemistry*

**ALBERTO ALVARO RIOS**

*Regents' Professor of English*

**NANCY FELIPE RUSSO**

*Regents' Professor of Psychology*

**JOHN C.H. SPENCE**

*Regents' Professor of Physics and Astronomy*

**MARYBETH STEARNS**

*Regents' Professor Emeritus of Physics and Astronomy*

**WILLIAM T. TROTTER**

*Regents' Professor of Mathematics*

**CHRISTY G. TURNER II**

*Regents' Professor of Anthropology*

**J. BRUCE WAGNER JR.**

*Regents' Professor Emeritus, Center for Solid-State Science and Chemistry and Biochemistry*

# Administrative and Academic Personnel

## Arizona Board of Regents

### Ex Officio

Jane Hull, B.S., *Governor of Arizona*

Lisa Graham Keegan, B.A., M.S. *Superintendent of Public Instruction*

### Appointed

#### To July 1998

John Platt, *Student Regent*

#### To January 2000

Rudy E. Campbell, CLU

John F. Munger, B.A., J.D.

#### To January 2002

George H. Amos III, B.S.

Judith Gignac

#### To January 2004

Donald J. Ulrich, B.A.

*To Be Appointed*

#### To January 2006

Chris Herstam, B.A., M.A.

Jack Jewett, B.A.

#### Counsel to the Board

Joel Sideman, J.D.

## President's Office

President ... .. Latte F. Coor

Senior Executive Assistant to the President ... Ben R. Forsyth  
Special Assistant to the President

for Administration ... .. Lawrence D. Mankin

Executive Assistant for University Programs ... Ruth S. Jones  
Advisor to the President on

American Indian Affairs ... .. Peterson Zah

Director, Athletics ... .. Kevin White

Director, Equal Opportunity

Affirmative Action ... .. Barbara A. Mawhney

General Counsel ... .. Paul J. Ward

ICA Faculty Representative ... .. Jerry L. Kingston

## ASU Main

### Academic Affairs

Senior Vice President and Provost ... .. Milton D. Glick

Vice Provost ... .. Charles R. Bantz

Vice Provost ... .. Kathleen Church

Vice Provost ... .. Walter Harris Jr.

Vice Provost for Information

Technology ... .. William E. Lewis

Interim Vice Provost for Research ... .. Jonathan Fink

Assistant Vice President

for Academic Affairs ... .. Louis Olivas

Assistant to the Senior Vice President

and Provost ... .. Linda Van Scoy

Fiscal Operations Administrator ... .. Lynn Carpenter

Interim Director, Undergraduate

Academic Services ... .. William S. Johnson

Director, Academic and Administrative

Documents ... .. Tabb Forster

Director, Academic Articulation ... .. Zoi a Gamero de Tovar

Director, Academic Facilities ... .. David Techau

Director, Center for Learning

and Teaching Excellence ... .. *To Be Appointed*

Director, Fiscal Planning and Analysis ... .. Alan Carroll

Director, Institutional Analysis ... .. John Porter

Director, International Programs ... .. Donald McTaggart

Director, Office of Research

Development ... .. Patrick Burkhart

Director, Strategic Planning

and Policy Analysis ... .. Douglas Vinzant

Director, Summer Sessions ... .. Carol Switzer

Director, University Evaluation ... .. William S. Johnson

### College of Architecture and Environmental Design

Dean, College of Architecture

and Environmental Design ... .. John Meunier

Associate Dean, College of Architecture

and Environmental Design ... .. David G. Scheatzle

Associate Dean, College of Architecture

and Environmental Design ... .. Mary Kihl

Director, Ph.D. program in Environmental

Planning in Design ... .. Michael D. Kroelinger

Director, School of Architecture ... .. Ron McCoy

Director, School of Design ... .. Robert Lee Wolf

Director, School of Planning

and Landscape Architecture ... .. Frederick Steiner

Director, Herberger Center  
for Design Excellence ..... Mary Kihl  
Coordinator, Joint Urban Design Program ..... John McIntosh  
Coordinator, Joint Urban Design Studio ..... Michael Dollin

**College of Business**

Dean, College of Business ..... Larry E. Penley  
Associate Dean, Professional Programs ..... Lee R. McPheters  
Associate Dean, Undergraduate Programs ..... Steve Happel  
Director, School of Accountancy  
and Information Management ..... Philip M. J. Reckers  
Interim Chair, Department of Business  
Administration ..... John N. Pearson  
Chair, Department of Economics ..... Arthur E. Blakemore  
Chair, Department of Finance ..... Herbert M. Kaufman  
Director, School of Health  
Administration and Policy ..... Eugene S. Schneller  
Chair, Department of Management ..... William H. Glick  
Chair, Department of Marketing ..... Michael P. Mokwa  
Director, Center for Advanced  
Purchasing Studies ..... Phillip L. Carter  
Director, Arizona Real Estate Center ..... Jay Q. Butler  
Director, Center for Business Research ..... Timothy D. Hogan  
Executive Director, Center  
for the Study of Finance ..... Herbert M. Kaufman  
Director, Center for Services  
Marketing and Management ..... Stephen W. Brown  
Director, Bank One  
Economic Outlook Center ..... Lee R. McPheters  
Director, Joan and David Lincoln  
Center for Ethics ..... Marianne M. Jennings  
Director, L. William Seidman  
Research Institute ..... Timothy D. Hogan

**College of Education**

Dean, College of Education ..... David C. Berhner  
Interim Associate Dean.  
Teacher Education ..... Nicholas R. Appleton  
Interim Associate Dean, Academic  
Programs and Personnel ..... Gail Hackett  
Interim Associate Dean, Research ..... Gene V. Glass  
Director, Division of  
Curriculum and Instruction ..... Nicholas R. Appleton  
Academic Program Coordinator, Early  
Childhood Education ..... Rey Gomez  
Academic Program Coordinator, Educational  
Media and Computers ..... Gary Bitter  
Academic Program Coordinator,  
Elementary Education ..... *To Be Appointed*  
Academic Program Coordinator,  
Multicultural Education ..... Alfredo Benavides  
Academic Program Coordinator,  
Reading and Library Science ..... Gary Anderson  
Academic Program Coordinator,  
Secondary Education ..... Robert Gryder  
Academic Program Coordinator,  
Special Education ..... Alfonso Prieto  
Director, Division of Educational  
Leadership and Policy Studies ..... Thomas H. Metos

Academic Program Coordinator,  
Educational Administration  
and Supervision ..... Thomas H. Metos  
Academic Program Coordinator,  
Education Policy Studies ..... Mary Lee Smith  
Academic Program Coordinator,  
Higher Education ..... Howard L. Simmons  
Interim Director and Regents' Professor,  
Division of Psychology  
in Education ..... Raymond Kulhavy  
Academic Program Coordinator,  
Counseling Psychology ..... Charles D. Claiborn  
Academic Co Program Coordinator,  
Counselor Education ..... Stafford Hood  
Academic Co Program Coordinator,  
Counselor Education ..... J. Jeffries McWhirter  
Academic Program Coordinator,  
Learning and Instructional  
Technology ..... James Klein  
Academic Program Coordinator, Lifespan  
Developmental Psychology ..... Elsie G. Moore  
Academic Program Coordinator,  
Measurement, Statistics,  
and Methodological Studies ..... John Behrens  
Academic Program Coordinator,  
School Psychology ..... Raymond Kulhavy  
Director, Center for Bilingual  
Education and Research ..... Josué González  
Director, Bureau of Educational  
Research and Services ..... Margaret Mangini  
Director, Center  
for Indian Education ..... Octaviana Trujillo  
Director, Professional Field Experiences ..... Billie Enz  
Director, Student Affairs ..... Richard Daniel

**College of Engineering and Applied Sciences**

Dean, College of Engineering  
and Applied Sciences ..... Peter E. Crouch  
Associate Dean, Academic Affairs ..... Daniel F. Jankowski  
Associate Dean, Research ..... E. Daniel Hirleman  
Associate Dean, Student Affairs  
and Special Programs ..... Mary R. Anderson Rowland  
Director, Del E. Webb School of  
Construction ..... William W. Badger  
Director, School of Engineering ..... Daniel F. Jankowski  
Chair, Department of Chemical, Bio,  
and Materials Engineering ..... Eric J. Guilbeau  
Chair, Department of Civil  
and Environmental Engineering ..... Sandra Houston  
Chair, Department of Computer  
Science and Engineering ..... Stephen S. Yau  
Chair, Department of Electrical  
Engineering ..... Stephen M. Goodnick  
Chair, Department of Industrial and  
Management Systems Engineering ..... Gary L. Hogg  
Chair, Department of Mechanical  
and Aerospace Engineering ..... Don L. Boyer  
Director, Engineering Core  
and Special Studies ..... Daniel F. Jankowski  
Director, Center for Innovation in  
Engineering Education ..... Donovan L. Evans

Director, Center for Professional  
Development ..... Charles S. Elliott  
Director, Center for Research in  
Engineering and Applied Sciences .... E. Daniel Hirleman  
Director, Center for Solid-State  
Electronics Research ..... Michael Kozicki  
Director, Center for System Science and  
Engineering Research ..... Frank Hoppensteadt  
Director, Telecommunications  
Research Center ..... Constantine A. Balanis

### College of Extended Education

Dean, College of Extended Education ..... Bette F. DeGraw  
Associate Dean ..... Barbara Lafford  
Director, American English  
and Culture Program ..... Gailynn Valdés  
Director, Communications and Marketing ..... Randy Bailey  
Director, Development and Outreach ..... Scott Sheldon  
Director, Distance Learning Technology ... Elizabeth H. Craft  
Director, Downtown Center ..... Bette F. DeGraw  
Director, Extended Campus Programs ..... Jim Patzner  
Director, Instructional Programs ..... Patricia A. Feldman  
Director, Operations and Finance ..... Cathie M. Fox  
Director, Professional and  
Continuing Education ..... Regina L. R. Edwards



Night view of the Life Sciences E-wing.

Tim Trumble photo

### College of Fine Arts

Dean, College of Fine Arts ..... J. Robert Willis  
Interim Associate Dean ..... Betsy Fahlman  
Sr. Business Operations Manager ..... Suzanne Bias  
Director, School of Art ..... Julie F. Codell  
Chair, Department of Dance ..... Claudia Murphey  
Director, School of Music ..... Toni-Marie Montgomery  
Chair, Department of Theatre ..... Bonnie Eckard  
Director, Institute for  
Studies in the Arts ..... Richard L. Loveless  
Director, University Art Museum ..... Marilyn Zeitlin

### College of Law

Interim Dean, College of Law ..... Alan A. Matheson  
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Assistant Dean ..... *To Be Appointed*  
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Interim Director, Law School Clinic ..... Selwyn L. Dallyn  
Interim Director, Legal Research  
and Writing and Academic  
Support Group ..... Judith M. Stinson  
Director, Center for the Study of Law,  
Science, and Technology ..... Daniel S. Strouse

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and Sciences ..... Gary S. Krahenbuhl  
Associate Dean ..... Milt Sommerfeld  
Associate Dean, Academic Programs ..... Leonard Gordon  
Associate Dean, Administration  
and Personnel ..... Wendy Wilkins  
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Aerospace Studies ..... Col. John Gorman  
Chair, Department of Anthropology ..... Barbara Stark  
Chair, Department of Biology ..... James P. Collins  
Chair, Department of Chemistry  
and Biochemistry ..... Morton E. Munk  
Chair, Chicana and Chicano Studies ..... Vicki Ruiz  
Chair, Department of English ..... Nancy Gutierrez  
Chair, Department of Exercise  
Science and Physical Education ..... William Stone  
Chair, Department of Family Resources  
and Human Development ..... Richard Fabes  
Interim Chair, Department of  
Geography ..... Breandán ÓhUallacháin  
Interim Chair, Department of Geology ..... Simon Peacock  
Chair, Department of History ..... Retha M. Warrnicke  
Chair, Department of  
Languages and Literatures ..... David Foster  
Chair, Department of Mathematics ..... Rosemary Renaut  
Chair, Department of Microbiology ..... Edward A. Birge  
Chair, Department of Military  
Science ..... Lt. Col. Wylie Bearup  
Chair, Department of Philosophy ..... Brad Armendt  
Chair, Department of Physics  
and Astronomy ..... Howard Voss  
Chair, Department of Plant Biology ..... J. Kenneth Hooper  
Chair, Department of Political Science .... Stephen G. Walker  
Chair, Department of Psychology ..... J. Jay Braun  
Chair, Department of Religious Studies ..... Linell E. Cady  
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Chair, Department of Speech  
and Hearing Science . . . . . M. Jeanne Wilcox  
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Studies . . . . . Leonor Boulm Johnson  
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Associate Dean for Undergraduate  
Programs and Extended Education . . . . . Mary L. Killeen  
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Extended Education . . . . . David Hrabec  
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Practitioner Program . . . . . Lynne Vigl  
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Parent Child Nursing . . . . . Francis Thurber  
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Psychosocial Nursing Systems . . . . . Pauline Komnenich  
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Executive Program . . . . . Peggy O'Sullivan-Kachel  
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American Program . . . . . Tom Nakayama  
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Senior Manager, Administrative  
Services and Information Systems . . . . . Kent D. Blayfork

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Director, Faculty and Student  
Support Services . . . . . Sybil M. Delevan

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Associate Dean . . . . . Michael Cochise Young

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Associate Dean, Continuous  
Improvement/TQS . . . . . Dora Bıblarz  
Associate Dean, Library Services . . . . . Jane Conrow  
Associate Dean, Video Resources  
Facilities Management . . . . . Warren Fry  
Assistant Dean, Personnel . . . . . Kurt Murphy  
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Head, Acquisitions and  
Bibliographic Records . . . . . Marcia Anderson  
Head, Architecture and Environmental  
Design Library . . . . . Berna Neal  
Head, Department of Archives  
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Head, Government Documents/  
Map Collection . . . . . Rebecca Burke  
Interim Head, Interlibrary Loan and  
Document Delivery . . . . . Ginny Sylvester  
Head, Library Instruction, Systems,  
and Technology (LIST) . . . . . Scott Herrington  
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Head, Preservation . . . . . Lois Schneberger  
Head, Special Collections . . . . . Marilyn Wurzburger  
Acting Head, Original Cataloging . . . . . David Reynolds  
Noble Science and Engineering Library  
Reference Services . . . . . Mara Pinckard  
Team Leader, Collection Development . . . . . Jeanne Richardson  
Team Leader, Reference Services . . . . . Harvev Sager



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 Assistant Vice Provost,  
 Administrative Services ..... LeEtta Overmyer  
 Assistant to the Vice Provost,  
 Administrative Services ..... Sheila Woods Stokes  
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 Assistant Comptroller, Business Services .. Henry Spomer  
 Assistant Comptroller,  
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 Associate Director ..... Dave Brixen  
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 Manager, Design Management and  
 Construction Administration ..... Vance Linden  
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 Management Services ..... Walter B. Silva  
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 Basketball Men ..... *To Be Appointed*  
 Basketball Women ..... Charli Turner Thorne  
 Cross Country Men ..... Walt Drenth  
 Cross Country Women ..... Walt Drenth  
 Diving Men ..... Jane Figueredo  
 Diving Women ..... Jane Figueredo  
 Football Men ..... Bruce Snyder  
 Golf Men ..... Randy Lein  
 Golf Women ..... Linda Vollstedt  
 Gymnastics Women ..... John Spini  
 Softball Women ..... Linda Wells  
 Swimming Men ..... Ernest Maglischio

Swimming Women ..... Tim Hill  
 Tennis Men ..... Lou Belken  
 Tennis Women ..... Sheila McInerney  
 Track and Field Men ..... Greg Kraft  
 Track and Field Women ..... Greg Kraft  
 Volleyball Women ..... Patti Snyder Park  
 Wrestling Men ..... Lee Roy Smith

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 Director, Student Health ..... Dale Bowen  
 Director, Student Publications ..... Bruce Itule  
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 Program Coordinator ..... Vicki Harmon  
 Human Resources Specialist Senior ..... Patrick Patterson

**ASU East**

See page 461 for a list of ASU East administrators.

**ASU West**

See page 544 for a list of ASU West administrators.

# ASU Main Directory

For the "ASU East Directory," see page 460.  
 For the "ASU West Directory," see page 537.  
 Unless otherwise stated, the area code is 602.

<b>Admissions</b>	
Graduate .....	WILSN 101 965-6113
Law .....	LAW 101 965-1474
Readmissions (Undergraduate) .....	SSV B114 965-7440
Undergraduate .....	SSV C111 965-7788

## Architecture and Environmental

<b>Design, College of .....</b>	<b>ARCH 134 965-8169</b>
Architecture, School of .....	AED 162 965-3536
Design, School of .....	AED 154 965-4135
Herberger Center for Design Excellence .....	ARCH 119 965-6693
Planning and Landscape Architecture, School of .....	AED 158 965-7167

## ASU Alumni Association

African American and Asian Pacific Alumni Chapters .....	VIC 965-5330
ASU West Alumni Programs .....	FAB S361 543-2586
Career Programs College Associations, Continuing Education and Reunions .....	VIC 965-2133
Communications .....	MARIP 257 965-8150
Homecoming, Founder's Day and Student Relations .....	VIC 965-4282
Membership Marketing .....	MARIP 124 965-8346
Public Policy and Arizona Chapters .....	VIC 965-5074
Recruiting, Scholarships and National Chapters .....	VIC 965-5074
Sports .....	VIC 965-5357

## ASU East (see page 441)

## ASU/Phoenix Educational

<b>Opportunity Center .....</b>	<b>894-8451</b>
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## ASU West (see page 509)

<b>Bookstore, ASU .....</b>	<b>BKSTR 965-7928</b>
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## Business, College of .....

<b>BA 123 965-4227</b>	
Accountancy and Information Management School of .....	BA 223 965-3631
Business Administration, Department of .....	BA 318 965-3231
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 460 965-3621

<b>Campus Dining Services .....</b>	<b>MU 138 965-3464</b>
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<b>Career Services .....</b>	<b>SSV C359 965-2350</b>
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<b>Child and Family Services .....</b>	<b>MU 14C 965-9515</b>
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## Cocurricular Programs and

<b>Service, Institute for .....</b>	<b>SSV A149 965-9600</b>
Internships .....	SSV A149 965-2225
Residential Campus Communities .....	SSV A149 965-0336
Service Learning .....	SSV A149 965-2225

## Disability Resources

<b>for Students .....</b>	<b>MCENT first floor</b>
TTY .....	965-9000
Voice .....	965-1234

<b>Drop/add and withdrawal information</b> .....	<b>SSV B114</b> .....	<b>965-3124</b>
<b>Education, College of</b> .....	<b>EDB 104</b> .....	<b>965-3306</b>
Curriculum and Instruction		
Division of .....	ED 409 .....	965-1644
Curriculum and Instruction, Graduate Program Office (Advising) .....	ED 412 .....	965-4602
Educational Leadership and Policy Studies, Division of .....	ED 108 .....	965-6357
Psychology in Education, Division of .....	EDB 301 .....	965-3384
Psychology in Education Admissions Information (recording, voice mail) .....		965-6420
Student Affairs (Undergraduate Advising) .....	EDB 7 .....	965-3877
<b>Educational Opportunity Center</b> .....		<b>894-8451</b>
<b>Engineering and Applied Sciences, College of</b> .....	<b>EC G100</b> .....	<b>965-3421</b>
Chemical, Bio, and Materials Engineering Department of .....	EC G202 .....	965-3313
Civil and Environmental Engineering, Department of .....	EC G252 .....	965-3589
Computer Science and Engineering, Department of .....	GWC 206 .....	965-3190
Construction, Del E. Webb School of .....	JWS 268 .....	965-3615
Electrical Engineering, Department of .....	ERC 552 .....	965-3424
Engineering, School of .....	EC G104 .....	965-1726
Industrial and Management Systems Engineering Department of .....	GWC 502 .....	965-3185
Mechanical and Aerospace Engineering, Department of .....	EC G346 .....	965-3291
<b>Equal Opportunity/Affirmative Action</b> .....	<b>ADM B171</b> .....	<b>965-5057</b>
TTY .....		965-0471
<b>Extended Education, College of</b> .....	<b>ASUDC C319</b> .....	<b>965-9696</b>
American English and Culture Program .....	RISH 2D .....	965-2376
ASU Downtown Center .....	ASUDC .....	965-3046
ASU Sun Cities .....	SUNDM B .....	546-9659
Communications and Marketing .....	ASUDC C319 .....	965-9696
Computer Training Programs .....	ASUDC C250 .....	965-9200
Development and Outreach .....	ASUDC C319 .....	727-5330
Distance Learning Technology .....	R TT A129 .....	965-6738
Extended Campus Programs .....	ASUDC C250 .....	965-3046
Independent Learning .....	R TT B132 .....	965-6563
	or 1-800-533-4806	
Instructional Programs .....	RITT B132 .....	965-9797
Lifelong Learning Programs .....	ASUDC C250 .....	727-5264
Operations and Finance .....	ASUDC C319 .....	965-9696
Professional and Continuing Education .....	ASUDC C250 .....	965-3046
Professional Programs and Institutes .....	ASUDC C250 .....	965-3046
<b>FASTT</b> .....		<b>968-4400</b>
<b>Fine Arts, College of</b> .....	<b>GHALL 132</b> .....	<b>965-6536</b>
Art School of .....	ART 102 .....	965-3468

Dance, Department of .....	PEBE 107B .....	965-5029
Music, School of .....	MUS C 183 .....	965-3371
Theatre, Department of .....	GHALL 232 .....	965-5359
<b>Graduate College</b> .....	<b>WILSN lobby</b> .....	<b>965-3521</b>
Admissions .....	WILSN 101 .....	965-6113
Advising Office .....	WILSN lobby .....	965-3521
Financial Assistance .....	WILSN 120 .....	965-3521
<b>Graduation Section</b>		
Commencement Office .....	ADM B167 .....	965-6611
Graduate Division .....	SSV B113 .....	965-6980
Undergraduate Division .....	SSV B113 .....	965-3256
<b>Greek Life</b> .....	<b>MU N340</b> .....	<b>965-2249</b>
<b>Information Technology</b>		
COMPASS Computing Assistance Center .....	CPCOM 202 .....	965-5939
Computer Accounts Office .....	CPCOM 105 .....	965-1211
Computing Commons Site .....	CPCOM	
	atrium .....	965-4459
Computing Consulting .....	CPCOM 202 .....	965-6500
Computing Site Hours .....		965-6500
Geographic Information Systems Lab .....	CPCOM 235 .....	965-4007
Instruction Support Lab .....	CPCOM 216 .....	965-6739
IT Help Desk .....	CPCOM 202 .....	965-6500
Visualization Center .....	CPCOM 235 .....	965-9699
<b>Interdisciplinary Programs</b>		
Creative Writing (M.F.A.) .....	LL C346 .....	965-7454
Curriculum and Instruction (Ph.D.) .....	ED 305 .....	965-1644
Exercise Science (Ph.D.) .....	PEBW M201 .....	965-7664
Gerontology (Certificate) .....	WHALL 116 .....	965-3225
Justice Studies (Ph.D.) .....	WILSN 316 .....	965-7682
Public Administration (D.P.A.) .....	WILSN 208 .....	965-3926
Science and Engineering of Materials (Ph.D.) .....	PS B135 .....	965-2460
Speech and Hearing Science (Ph.D.) .....	CMSC 146 .....	965-2373
Statistics (M.S.) .....	BAC 570 .....	965-3531
<b>International Programs</b> .....	<b>MOEUR 124</b> .....	<b>965-5965</b>
Summer International Programs .....	ADM B167 .....	965-6611
<b>International Student Programs</b> .....	<b>SSV B225</b> .....	<b>965-7451</b>
<b>International Undergraduate Admissions</b> .....	<b>SSV C111</b> .....	<b>965-2688</b>
<b>Law, College of</b> .....	<b>LAW 201</b> .....	<b>965-6181</b>
TTY .....		965-2048
<b>Learning Resource Center</b> .....	<b>SSV A361</b> .....	<b>965-6254</b>
<b>Liberal Arts and Sciences, College of</b> .....	<b>SS 111</b> .....	<b>965-6506</b>
Aerospace Studies, Department of .....	MAN 340 .....	965-3181
African American Studies .....	AG 201 .....	965-4399
Anthropology Department of .....	ANTH A124 .....	965-6213
Biology, Department of .....	LS C226 .....	965-3571
Chemistry and Biochemistry, Department of .....	PS D102 .....	965-3461
Chicana and Chicano Studies, Department of .....	GHALL 212 .....	965-5091

English Department of .....	LL B504 .....	965-3168	<b>Readmissions</b>
Exercise Science and Physical Education, Department of ..	PEBW M212 .....	965-3875	(Undergraduate) .....
Family Resources and Human Development Department of .....	HEC 106 .....	965-6978	SSV B114 .....
Geography Department of .....	JWS 338 .....	965-7533	SSV B114 .....
Geology, Department of .....	PS F686 .....	965-5081	Registrar .....
History, Department of .....	SS 204 .....	965-5778	InTouch .....
Interdisciplinary Humanities Program .....	LL C352 .....	965-6747	TTY .....
Languages and Literatures, Department of .....	LL B404 .....	965-6281	Voice .....
Mathematics, Department of ..	PS A216 .....	965-7195	Residency Classification .....
Microbiology Department of .....	LS E210 .....	965-1457	SSV B115 .....
Military Science, Department of .....	MAIN 240 .....	965-3318	Residential Life .....
Philosophy, Department of ..	PS A524 .....	965-3394	SSV A131 .....
Physics and Astronomy, Department of .....	PS F470 .....	965-3561	Social Work, School of .....
Plant Biology Department of .....	LS E218 .....	965-3414	WHALL 135 .....
Political Science, Department of ..	SS 410 .....	965-6551	965-3304
Psychology, Department of ..	PSY 237 .....	965-3326	Student Financial Assistance .....
Religious Studies Department of .....	EC A377 .....	965-7145	SSV C219 .....
Sociology, Department of ..	SS 321 .....	965-3546	SSV C219 .....
Speech and Hearing Science, Department of .....	LL A145 .....	965-2373	Student Health .....
Women's Studies Program ..	EC A209 .....	965-2358	SHS .....
<b>Memorial Union</b>			Fax .....
Activities Board ..	MU third level ..	965-6822	Measles verification information ..
Administration ..	MU first level ..	965-5309	Student ID .....
Information Desk ..	MU first level ..	965-5728	UASB 140 .....
Lost and Found ..	MU first level ..	965-5728	965-3124
Reservations ..	MU first level ..	965-3406	Student Leadership Programs .....
<b>Nursing, College of .....</b>	<b>NUR 322 .....</b>	<b>965-3244</b>	MU N340 .....
Continuing and Extended Education ..	NUR 470 ..	965-7431	965-2249
Student Service Office ..	NUR 108 ..	965-2987	Student Life .....
<b>Off-Campus Student Employment .....</b>	<b>SSV C222 .....</b>	<b>965-6318</b>	SSV B228 .....
<b>On-Campus Student Employment .....</b>	<b>SSV C222 .....</b>	<b>965-5186</b>	965-6547
<b>Operator, University .....</b>		<b>965-9011</b>	<b>Student Organization Resource Center .....</b>
<b>Orientation, New Student .....</b>	<b>SSV A279 .....</b>	<b>965-7788</b>	MU N340 .....
<b>Parents Association .....</b>	<b>SSV A278 .....</b>	<b>965-7788</b>	965-2249
<b>Public Programs, College of .....</b>	<b>WILSN 234 .....</b>	<b>965-1034</b>	<b>Student Publications .....</b>
Advanced Public Executive Program (APEP) ..	ASUDC C110 ..	965-4006	MCENT 15 .....
Communication Department of ..	STAUF A412 ..	965-5095	State Press Information .....
Journalism and Telecommunication, Walter Cronkite School of ..	STAUF A231 ..	965-5011	State Press Newsroom .....
Justice Studies, School of ..	WILSN 331 ..	965-7682	965-7572
Morrison Institute for Public Policy ..	UVCN 203 ..	965-4525	965-2292
Public Affairs, School of ..	WILSN 208 ..	965-3926	<b>Student Recreation Complex and Recreational Sports .....</b>
Recreation Management and Tourism, Department of ..	MOEUR 131 ..	965-7291	SRC 220 .....
			965-8900
			<b>Summer Sessions, Office of .....</b>
			ADM B167 .....
			965-6611
			<b>Transcripts (outgoing) .....</b>
			SSV B113 .....
			965-3171
			<b>Undergraduate Academic Services, Division of .....</b>
			UASB
			Bachelor of Interdisciplinary Studies .....
			UASB 100 ..
			965-4464
			Campus Match .....
			UASB 200 ..
			965-3097
			Cross-college Advising Services .....
			UASB 100 .....
			965-4464
			Degree Audit .....
			UASB 100 ..
			965-8012
			General Studies .....
			UASB 100 .....
			965-5657
			Service Learning .....
			UASB 100 ..
			965-3097
			University 100/194 .....
			UASB 200 ..
			965-3097
			Writing Across the Curriculum ..
			UASB 100 ..
			965-3097
			Writing Centers ..
			UASB 200 ..
			965-4272
			<b>University Honors College .....</b>
			MCL 112 .....
			965-2359
			<b>University Libraries .....</b>
			LIB
			Circulation .....
			965-3605
			Hours .....
			965-3415
			Information .....
			965-6164
			Renewal by telephone .....
			965-2595
			<b>University Testing Services .....</b>
			EDB 302 .....
			965-7146
			<b>Upward Bound .....</b>
			SSV A279 .....
			965-6483
			<b>Veterans Services Section .....</b>
			SSV B117 .....
			965-7723
			<b>Veterans Upward Bound .....</b>
			IRISH 7 .....
			965-3944

# ASU Web Directory

## Administrative Links

Student Financial Assistance ..... [www.asu.edu/fa](http://www.asu.edu/fa)  
 Office of the Registrar ..... [www.asu.edu/registrar](http://www.asu.edu/registrar)  
 Residential Life ..... [www.asu.edu/reslife](http://www.asu.edu/reslife)  
 Undergraduate Admissions ..... [www.asu.edu/admissions](http://www.asu.edu/admissions)

## College Links

### Architecture and Environmental Design, College of

Architecture, School of ..... [www.asu.edu/caed/Architecture](http://www.asu.edu/caed/Architecture)  
 Design, School of ..... [www.asu.edu/caed/Design](http://www.asu.edu/caed/Design)  
 Planning and Landscape  
 Architecture, School of ..... [www.asu.edu/caed/Planning](http://www.asu.edu/caed/Planning)

### Business, College of

Accountancy and Information  
 Management, School of ..... [www.cob.asu.edu/acct](http://www.cob.asu.edu/acct)  
 Business Administration, Department of ..... [www.cob.asu.edu/ba](http://www.cob.asu.edu/ba)  
 Economics, Department of ..... [www.cob.asu.edu/ecn/index.html](http://www.cob.asu.edu/ecn/index.html)  
 Finance, Department of ..... [www.cob.asu.edu/fin](http://www.cob.asu.edu/fin)  
 Health Administration and Policy,  
 School of ..... [www.cob.asu.edu/hap](http://www.cob.asu.edu/hap)  
 Management, Department of ..... [www.cob.asu.edu/mgt](http://www.cob.asu.edu/mgt)  
 Marketing, Department of ..... [www.cob.asu.edu/mkt](http://www.cob.asu.edu/mkt)

### Education, College of

Curriculum and Instruction,  
 Division of ..... [tkkun.ed.asu.edu/coe/candi](http://tkkun.ed.asu.edu/coe/candi)  
 Educational Leadership and  
 Policy Studies, Division of ..... [tkkun.ed.asu.edu/elps](http://tkkun.ed.asu.edu/elps)  
 Psychology in Education,  
 Division of ..... [seamonkey.ed.asu.edu/~gail/division/divintro.htm](http://seamonkey.ed.asu.edu/~gail/division/divintro.htm)

### Engineering and Applied Sciences, College of

Chemical, Bio, and Materials Engineering,  
 Department of ..... [www.eas.asu.edu/~cbme](http://www.eas.asu.edu/~cbme)  
 Civil and Environmental Engineering,  
 Department of ..... [www.eas.asu.edu/~civil](http://www.eas.asu.edu/~civil)  
 Computer Science and Engineering,  
 Department of ..... [www.eas.asu.edu/~csdept](http://www.eas.asu.edu/~csdept)  
 Construction, Del E. Webb School of ..... [www.eas.asu.edu/dewsc](http://www.eas.asu.edu/dewsc)  
 Electrical Engineering, Department of ..... [www.eas.asu.edu/ee](http://www.eas.asu.edu/ee)  
 Industrial and Management Systems  
 Engineering, Department of ..... [www.eds.asu.edu/~imse](http://www.eds.asu.edu/~imse)  
 Mechanical and Aerospace Engineering,  
 Department of ..... [www.eas.asu.edu/~mae](http://www.eas.asu.edu/~mae)

Extended Education, College of ..... [www.asu.edu/xed](http://www.asu.edu/xed)

### Fine Arts, College of

Art, School of ..... [www.asu.edu/cfa/art](http://www.asu.edu/cfa/art)  
 Dance, Department of ..... [www.asu.edu/cfa/dance](http://www.asu.edu/cfa/dance)  
 Music, School of ..... [www.asu.edu/cfa/music](http://www.asu.edu/cfa/music)  
 Theatre, Department of ..... [www.asu.edu/cfa/theatre](http://www.asu.edu/cfa/theatre)

Graduate College ..... [www.asu.edu/graduate](http://www.asu.edu/graduate)

Law, College of ..... [www.law.asu.edu](http://www.law.asu.edu)

### Liberal Arts and Sciences, College of

Aerospace Studies, Department of ..... [www.asu.edu/clas/afrotc](http://www.asu.edu/clas/afrotc)  
 Anthropology, Department of ..... [www.asu.edu/clas/anthropology](http://www.asu.edu/clas/anthropology)  
 Biology, Department of ..... [lsvl.la.asu.edu/biology](http://lsvl.la.asu.edu/biology)  
 Chemistry and Biochemistry,  
 Department of ..... [www.asu.edu/clas/chemistry](http://www.asu.edu/clas/chemistry)  
 Chicana and Chicano Studies ..... [www.asu.edu/clas/chicana](http://www.asu.edu/clas/chicana)  
 English, Department of ..... [www.asu.edu/clas/english](http://www.asu.edu/clas/english)  
 Exercise Science and Physical  
 Education, Department of ..... [www.asu.edu/clas/espe](http://www.asu.edu/clas/espe)  
 Family Resources and Human  
 Development, Department of ..... [www.asu.edu/clas/frhd](http://www.asu.edu/clas/frhd)  
 Geography, Department of ..... [saguaro.la.asu.edu/geography](http://saguaro.la.asu.edu/geography)  
 Geology, Department of ..... [www.gig.la.asu.edu](http://www.gig.la.asu.edu)  
 History, Department of ..... [www.asu.edu/clas/history](http://www.asu.edu/clas/history)  
 Interdisciplinary Humanities  
 Program ..... [www.asu.edu/clas/humanities](http://www.asu.edu/clas/humanities)

Languages and Literatures,  
 Department of ..... [www.asu.edu/clas/dll](http://www.asu.edu/clas/dll)

Mathematics, Department of ..... [math.la.asu.edu](http://math.la.asu.edu)

Microbiology, Department of ..... [lsvl.la.asu.edu/microbiology](http://lsvl.la.asu.edu/microbiology)

Philosophy, Department of ..... [www.asu.edu/clas/philosophy](http://www.asu.edu/clas/philosophy)

Physics and Astronomy,  
 Department of ..... [www.asu.edu/clas/dopa/dopa.html](http://www.asu.edu/clas/dopa/dopa.html)

Plant Biology, Department of ..... [lsvl.la.asu.edu/plantbiology](http://lsvl.la.asu.edu/plantbiology)

Political Science, Department of ..... [www.asu.edu/clas/polisci](http://www.asu.edu/clas/polisci)

Psychology, Department of ..... [www.asu.edu/clas/psych](http://www.asu.edu/clas/psych)

Religious Studies,  
 Department of ..... [www.asu.edu/clas/religious\\_studies](http://www.asu.edu/clas/religious_studies)

Sociology, Department of ..... [www.asu.edu/clas/sociology](http://www.asu.edu/clas/sociology)

Speech and Hearing Science,  
 Department of ..... [www.asu.edu/clas/shs](http://www.asu.edu/clas/shs)

Women's Studies Program ..... [www.asu.edu/clas/womens\\_studies](http://www.asu.edu/clas/womens_studies)

Nursing, College of ..... [www.asu.edu/nursing](http://www.asu.edu/nursing)

Public Programs, College of

Communication,  
 Department of ..... [www.asu.edu/copp/communication](http://www.asu.edu/copp/communication)

Journalism and Telecommunication,  
 Walter Cronkite School of ..... [cronkite.pp.asu.edu](http://cronkite.pp.asu.edu)

Justice Studies, School of ..... [www.asu.edu/copp/justice](http://www.asu.edu/copp/justice)

Public Affairs, School of ..... [www.asu.edu/copp/publicaffairs](http://www.asu.edu/copp/publicaffairs)

Recreation Management and  
 Tourism, Department of ..... [www.asu.edu/copp/recreation](http://www.asu.edu/copp/recreation)

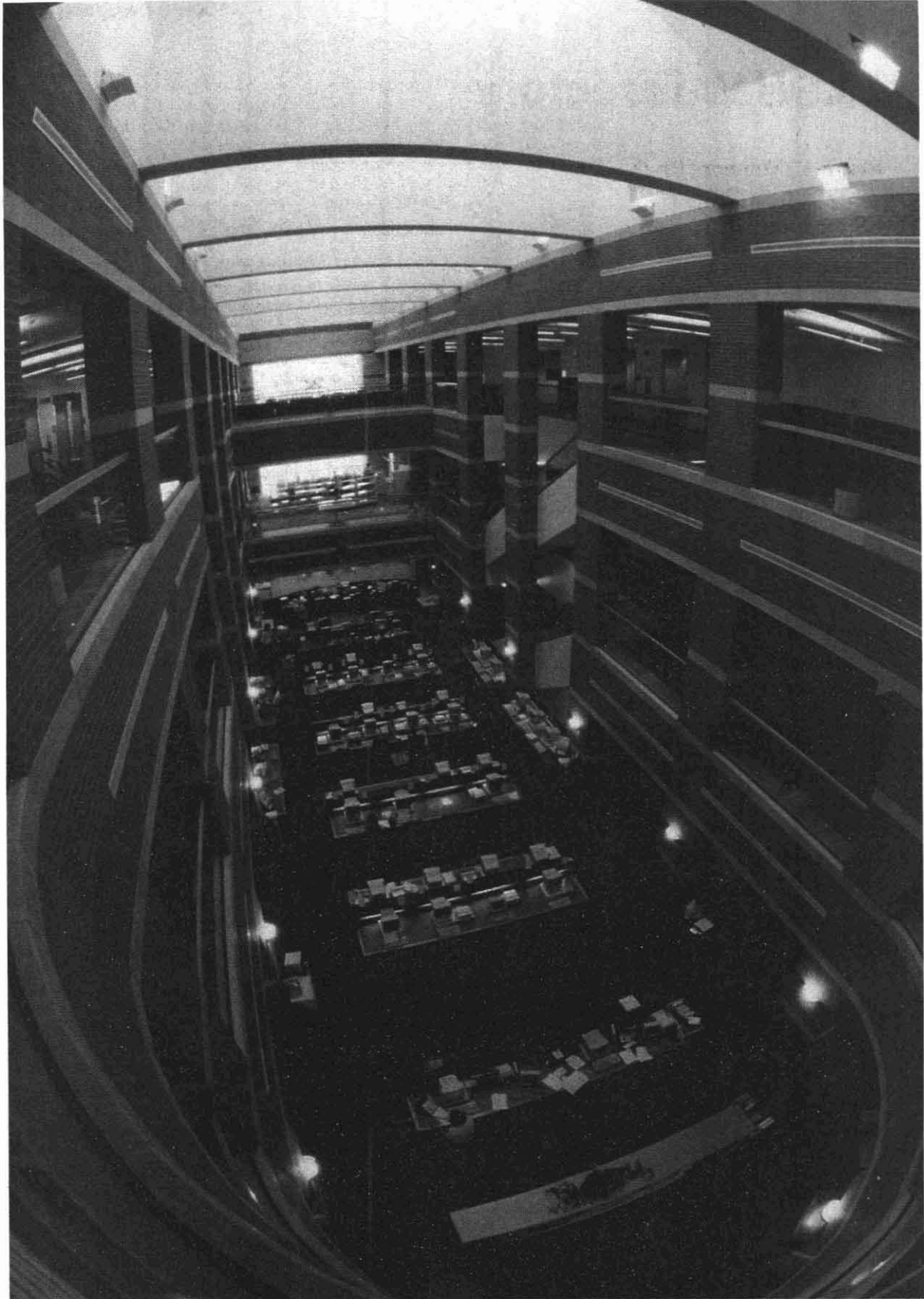
Social Work, School of ..... [www.asu.edu/socialwork](http://www.asu.edu/socialwork)

Summer Sessions, Office of ..... [www.asu.edu/ssc](http://www.asu.edu/ssc)

University Honors College ..... [www.asu.edu/honors](http://www.asu.edu/honors)

ASU East ..... [www.east.asu.edu](http://www.east.asu.edu)

ASU West ..... [www.west.asu.edu](http://www.west.asu.edu)



Fletcher Library on the West Campus.

Tim Trumble photo

# ASU West

**Elaine P. Maimon, Ph.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 28 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 diverse needs of today's working adults, returning students, and continuing students. Academic programs, classes, and support services are innovative and focused on providing students with a high quality education. Classes are conveniently offered in the day and evening, as well as on weekends, through television (cable), and the Internet, and off campus locations.

With an enrollment of about 5,000 students, ASU West provides a small college atmosphere; yet, students have the advantage of all the on and off campus resources of a nationally recognized Research I and Pac 10 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 the interstate routes of I 10 and I 17.

## Accreditation

ASU West is accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools, 30 North LaSalle St., Chicago, IL 60602 2504. 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 Ameri-

can 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 Association/American Association for Leisure and Recreation (NRPA/AALR) and the undergraduate Social Work program is accredited by the Council on Social Work Education (CSWE).

See "Accreditation and Affiliation" on pages 18-21.

## Academic Organization and Administration

As chief operating and academic officer of ASU West, the vice president and provost for ASU West provides executive leadership for the continuing development and management of the campus and reports directly to the president of Arizona State University. The vice president and provost is aided in the administration of the campus by vice provosts, deans, directors, department chairs, faculty and other officers. 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.

The faculty and students of the institution play an important role in campus governance, with the Academic Senate, Student Forum, and numerous cross campus and joint ASU West ASU Main committees serving the needs of a rapidly growing institution.

See "ASU West Administrative and Academic Personnel," page 544 and "Academic Organization," page 9.

## Admission and Advising

**Nondegree Students.** Nondegree students may take courses at ASU West according to the special provisions on page 62 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

### Change of Major 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.

**Application of Course Credit.** All courses completed on any ASU campus may fulfill the 120-semester-hour requirement for graduation with a baccalaureate degree. Every candidate for the baccalaureate degree is required to earn a minimum of 30 semester hours in resident credit courses at the ASU campus from which the student will graduate

## ASU West Degrees, Majors, and Concentrations

Major	Degree	Administered by
<b>Baccalaureate Degrees</b>		
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: early childhood education, bilingual 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
Nursing	B.S.N.	College of Nursing (ASU Main)
Politics	B.A., B.S.	College of Arts and Sciences
Psychology	B.A., B.S.	College of Arts and Sciences
Recreation, Tourism and Management	B.S.	College of Human Services
Secondary Education	B.A.E.	College of Education
Specializations or options: biological sciences, English, history, mathematics, middle school education, social studies		
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.	College of Arts and Sciences
<b>Graduate Degrees</b>		
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 Gerontology, Postbaccalaureate Certificate in Women's Studies, Certificate in Writing, Certificate in	School of Management College of Human Services College of Arts and Sciences College of Arts and Sciences

ate. Some degree programs have specific requirements that must be completed in the department of the major or through another department at the resident campus. The application of courses to the degree program is determined by the appropriate faculty or academic advisor of the student's major. Because of these constraints, students should seek advice from the appropriate advisor for their major before registering for classes at another ASU campus.

#### Academic Advising

Effective academic advising is an essential aspect of the educational experience at ASU West. Prospective students should contact an admissions counselor as a first step in the admission process. Call 602/543-8123 or visit Admission Services in the Admissions and Records office in University Center Building 120 to make an appointment. An admissions counselor will review admission requirements and processes and make referrals to academic advisors as appropriate. A convenient alternative is to meet with an outreach advisor at an ASU West Transfer Center located on the campuses of local community colleges.

#### 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.

The following academic specializations for the B.A.E. in Secondary Education 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 develop-

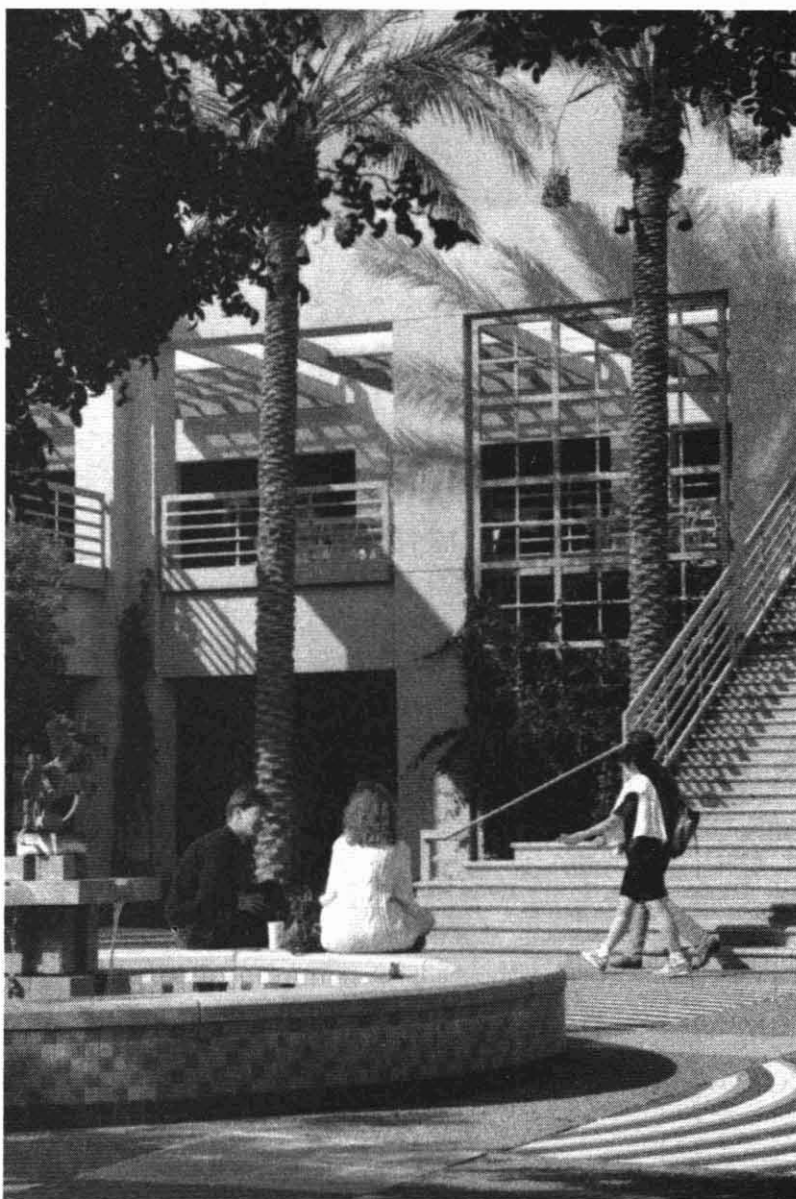
ment; physical education; physics; political science; and Spanish.

For more information on ASU West degree requirements, see the current *ASU West Catalog*.

**ASU Main Programs Hosted at ASU West.** 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," pages 396-404.

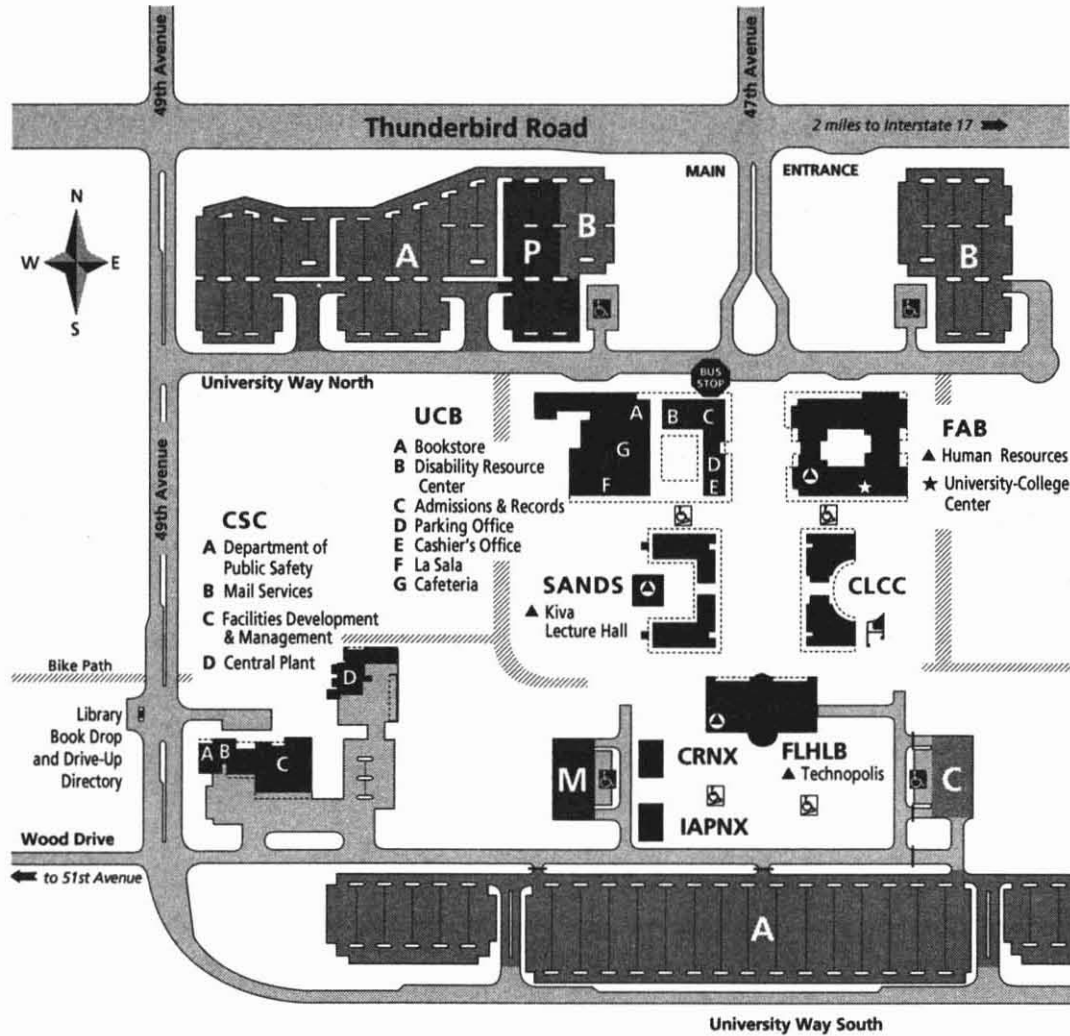
#### Course Information

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*.



ASU West's University Center courtyard.

ASU West file photo



**BUILDING LEGEND**

- |   |  |
|---|--|
| <p><b>University Center Building (UCB)</b><br/>                 Admissions and Records<br/>                 Arizona State Savings &amp; Credit Union<br/>                 Bank of America ATM<br/>                 Bookstore<br/>                 Cafeteria<br/>                 Career Services/Personal Counseling Center<br/>                 Cashier's Office<br/>                 Center for Writing Across the Curriculum<br/>                 Child Care Center<br/>                 Disability Resource Center<br/>                 Financial Aid/Student Employment Information Desk<br/>                 InTouch Registration<br/>                 La Sala A,B,C<br/>                 Multicultural Services<br/>                 Parking Office<br/>                 Recruitment and Outreach<br/>                 Second Stage West Theatre<br/>                 Student Affairs Administration<br/>                 Student Health Services<br/>                 Student Life<br/>                 Student Lounge<br/>                 Student Support Services Program<br/>                 Tutoring and Testing Services<br/>                 University Transitions Program<br/>                 Veterans' Services<br/>                 Wellness/Fitness Facility<br/>                 Women's Resource Center</p> | <p><b>Faculty/Administration Building (FAB)</b><br/>                 Academic Affairs<br/>                 Academic/Faculty Offices<br/>                 Administrative Affairs<br/>                 Copy Center<br/>                 Human Resources<br/>                 Information Desk<br/>                 Institutional Advancement<br/>                 Office of the Provost<br/>                 University-College Center</p> |
| <p><b>CSC</b><br/>                 A Department of Public Safety<br/>                 B Mail Services<br/>                 C Facilities Development &amp; Management<br/>                 D Central Plant</p>   | <p><b>UCB</b><br/>                 A Bookstore<br/>                 B Disability Resource Center<br/>                 C Admissions &amp; Records<br/>                 D Parking Office<br/>                 E Cashier's Office<br/>                 F La Sala<br/>                 G Cafeteria</p>   |
| <p><b>SANDS</b><br/>                 ▲ Kiva Lecture Hall</p>  | <p><b>CLCC</b></p>   |
| <p><b>CRNX</b><br/>                 IAPNX</p>   | <p><b>FLHLB</b><br/>                 ▲ Technopolis</p>   |

**SYMBOLS LEGEND**

- |   |   |
|---|---|
| Disabled Parking  | <b>B</b> Faculty/Staff Decal Parking<br><i>(7 a.m. to 5:30 p.m.; Student decal parking allowed after 5:30 p.m.)</i> |
| <b>M</b> Metered Parking<br><i>(25¢ per 15 minutes)</i>   | <b>C</b> Faculty/Staff Decal Parking<br><i>(24 hours/day)</i>   |
| <b>P</b> Visitor Parking<br><i>(\$1.00 exit fee; Monday–Thursday, 24 hours; Friday until 5:00 p.m.)</i> | Accessible Ramp   |
| <b>A</b> Decal Parking<br><i>(Students, faculty and staff only)</i>                                     | ASU West Express Shuttle Bus Stop   |

Parking regulations are enforced at all times. Decals are required on campus from 7am through 11pm. Meters are enforced from 7am until 10pm.



4701 West Thunderbird Road • Phoenix, AZ • (602) 543-5500 • www.west.asu.edu

# ASU West Directory

For the "ASU Main Directory," see pages 528–530.  
 For the "ASU East Directory," see page 460.  
 Unless otherwise stated, the area code is 602.

## Academic Units (Administrative and Faculty Offices)

Arts and Sciences, College of .....	FAB N200L-3	543-6000
American Studies Department of .....	FAB N220B	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
Women's Studies .....	FAB S115A	543-3300
Collaborative Programs, Division of .....	FAB S144	543-4600
Research Consulting Center .....	FAB S131	543-3410
University Honors College .....	FAB S151	543-4503
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
Gerontology Program .....	FAB N290-2	543-6642
Nursing (ASU Main Program) .....	FAB S116-1	543-6605
Recreation and Tourism Management Department of .....	FAB S277	543-6603
Social Work Department of .....	FAB S272	543-6602
Library, Fletcher .....	FLHLB	543-8501
Continuing Education and Renewal .....		543-8520
Hours .....		543-8500
Information and Reference Services .....		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 N101	543-6200

## Other

Admissions and Records (Registration Services/ Student Records) .....	UCB 120	543-8123
Associated Students of ASU West .....	UCB 221	543-8186
Bookstore .....	UCB 140	543-6800
Career Services and Personal Counseling Center .....	UCB 320	543-8124
Disability Resource Center .....	UCB 130	543-8145
TDD .....		543-4327
Financial Aid Services .....	UCB 120	543-8178
Graduate Studies .....	FAB S301	543-4567
Information Desk .....	FAB Lobby	543-5500
Multicultural Services .....	UCB 221	543-8148
Parking Services (Decks, Appeals) .....	UCB 105	543-7275
Residency Classification .....	UCB 120	543-8123
Student Academic Support Services .....	UCB 220	543-8157
Student Employment .....	UCB 120	543-8178
Student Health Services .....	UCB 170	543-8019
Student Life .....	UCB 220	543-8200
Student Support Services Program .....	UCB 201	543-8121
Tutoring and Testing Services .....	UCB 201	543-8136
University-College Center .....	FAB S150	543-4222
University Transitions Program .....	UCB 220	543-8157
Veterans Services .....	UCB 120	543-8123
Vice President/Provost .....	FAB N303	543-7000
Vice Provost Academic Affairs .....	FAB N301	543-4500
Women's Resource Center .....	UCB 323	543-3421

# ASU West Faculty and Academic Professionals

## A

**Achilles, Elayne R.** (1986), Associate Professor of Education, B M Ed , Temple University; M M., Ed.D., Arizona State University

**Alarcón, Justo S.** (1968) , Visiting Professor of Spanish, B.A , M.A , Seratca (Spain), M A., Laval University (Canada), Arizona State University Ph D , University of Arizona

**Aleshire, Peter** (1993), Senior 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), Associate Professor of Recreation and Tourism Management; 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, Karen E.** (1996), Assistant Librarian; B A., Saint Olaf College, M L S , San Jose State University

**Anderson, Laurel A.** (1989), Associate Professor of Marketing, B S N , University of Minnesota Twin Cities, M N., University of Washington, Ph D., Arizona State University

**Atwater, Leanne E.** (1993) , Associate Professor of Management; Director, Faculty Development, School of Management, B A , M A , San Diego State University; Ph.D., Claremont Graduate School

**Ávalos, Manuel** (1990), Associate Professor of Political Science, B A , M A , University of Arizona; Ph.D , University of New Mexico

## B

**Baldwin, Bruce A.** (1989), Professor of Accountancy, B A , M B.A , Michigan State University, Ph D , Arizona State University

**Beckett, E. Carol** (1996), Assistant Professor of Bilingual Education, B.A , M Ed , Ed 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, Ph D , Washington State University

**Bettencourt, Lance** (1997) , Visiting Instructor of Marketing, B S , California State University, Bakersfield

**Bettis, Carr** (1991) , Assistant Professor of Accountancy; B.B A., University of Guam, Ph.D , Indiana University, Bloomington

**Bonakdarian, Mansour** (1996), Visiting Assistant Professor of American Studies; B A., M A , Ph D University of Iowa

**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) , Associate 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, Interim Chair, Department of Social Work, Special Advisor to the Provost; Certificate of Social Work University of Strathclyde (United Kingdom) D S W University of Pennsylvania

**Bredbenner, Candice D.** (1990), Associate Professor of American History; B A., Russell Sage College, M.A , Ph D., University of Virginia

**Broaddus, Dorothy C.** (1990) , Associate 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

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## C

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**Cárdenas, Lupe** (1986), Associate Professor of Spanish; B.A., M.A., Ph.D., Arizona State University

**Carey, James** (1997), Visiting Assistant Professor of Management; B.S., M.B.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., Immaculate Heart College; M.Ed., Arizona State University; Ed.D., Northern Arizona University

**Carter, Wendy** (1997), Assistant Professor of Sociology; B.A., Stanford University; M.S., Carnegie Mellon University; M.S., Ph.D., University of Wisconsin, Madison

**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, Ines M.** (1991), Associate 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., Saint Olaf College; M.A., Ed.D., Northern Arizona University

**Coles, Jerilyn W.** (1994), Assistant Professor of Management; B.S., Brigham Young University; Ph.D., University of Utah

**Collins-Chobanian, 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; 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

**Crossman, Paula** (1996), Assistant Librarian; B.A., M.L.S., Dalhousie University (Canada)

**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, Interim Director, Division of Collaborative Programs; B.A., M.A., Ph.D., University of Texas, Austin

**Cutrer, Thomas W.** (1992), Associate Professor of American Studies; Chair, Department of American Studies; B.A., M.A., Louisiana State University; Ph.D., University of Texas, Austin

## D

**Davidson, Ronald** (1997), Associate Professor of Accountancy; B.Comm., University of Manitoba (Canada); M.B.A., York University (Canada); Ph.D., University of Arizona

**De La Cruz, Yolanda** (1991), Assistant Professor of Mathematics Education; B.A., M.A., California State University, Northridge; Ed.D., University of California, Berkeley

**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; Interim Associate Chair, Department of Social Work; B.S., Buena Vista College; M.S.W., University of Chicago

**Dixon, Kevin A.** (1995), Associate Research Scientist of Life Sciences; B.S., Brock University, St. Catharines, Ontario (Canada); M.S., University of Oklahoma; M.S., Ph.D., University of Chicago

**Duncan, William A.** (1991), Associate Professor of Accountancy; B.S., Portland State University; Ph.D., University of Texas, Austin

## E

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**Erfani, Julie A. Murphy** (1989), Associate Professor of Political Science; B.A., Knox College; M.A., Ph.D., University of Minnesota, Twin Cities

## F

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**Fedock, Patricia** (1993), Assistant Professor of Science Education; B.A., M.A., Ph.D., Arizona State University

**Feezor-Stewart, Barbara** (1995), Assistant Professor of American Studies; B.A., University of California, Berkeley; M.A., Ph.D., University of California, Los Angeles

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## G

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**Garcia, Mildred** (1997), Associate Professor of Social and Behavioral Sciences; Associate Vice Provost, Associate Director, Hispanic Research Center; B.S., Bernard M. Baruch College; M.A., New York University; M.A., Ed.D., Columbia University, Teachers College

**Garrett, Judith N.** (1996), Assistant Professor of Early Childhood Education/Special Education; B.S., State University of New York, Fredonia; M.A., University of Tennessee, Knoxville; Ph.D., George Mason 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 Management, 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

**Glass, Ronald D.** (1996), Assistant Professor of Professional Core; B.A., Harvard College; M.A., Ph.D., Stanford University; Ed.M., Harvard University, C.Phil., University of California Berkeley

**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

**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

**Griffin, Marie** (1997), Assistant Professor of Administration of Justice, B.S., Santa Clara University; Ph.D., University of Arizona

**Grober, Matthew S.** (1995), Assistant Professor of Endocrinology, B.S., California State, Long Beach, Ph.D., University of California, Los Angeles

**Gruber, Diane** (1995), Lecturer of Communication Studies; B.A., Rutgers, The State University, M.A., Ph.D., Purdue University

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## H

**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

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**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, B. Randy Jr.** (1996), Assistant Professor of Psychology, B.S., University of Oregon, M.A., Ph.D., University of New Hampshire

**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), Senior Lecturer of Writing, 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), Associate Professor of Measurement and Evaluation, 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), Professor of Recreation and Tourism Management; 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 Management; B.S.E., State University of New York, Cortland; M.S., Indiana University, Bloomington, Ph.D., Pennsylvania State University

**Hunter, Daniel** (1997), Lecturer of Applied Business and Professional Ethics, M.A., Aquinas Institute

**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

**Hyndman, Jennifer** (1997), Assistant Professor of Geography, B.A., University of Alberta (Canada); M.A., Lancaster University, United Kingdom

## I

**Irvin, Glenn W.** (1997), Professor of English, Vice Provost for Academic Affairs, B.A., M.A., Ph.D., Arizona State University

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## J

**Jacquette, Barbara L.** (1990), Lecturer of Curriculum and Instruction; B.S., Cornell University, M.A., Adelphi University, Ph.D., Arizona State University

**Jeffers, George J.** (1995), Assistant Professor of Educational Leadership, B.A., Saint John's University; M.S., Fordham University, Ed.D., Saint John's University

**Johnson, Carolyn R.** (1995), Associate 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

## K

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**Katz, Charles** (1997), Assistant Professor of Administration of Justice, B.S., Northeast Missouri State University; M.A., Ph.D., University of Nebraska, Omaha

**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), Associate 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 (United Kingdom)

**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 Management; 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

**Kostelnik, Joyce** (1997), Assistant Professor of Reading, B.S., M.Ed., Ph.D., University of North Texas

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## L

**Lavitt, Melissa R.** (1991), Assistant Professor of Social Work, B.A., University of Chicago; M.S.W., D.S.W., Tulane University

**Lawrence, David W.** (1996), Visiting Assistant Professor of American Studies; B.A., Stanford University, M.A.T., Brown University, Ph.D., University of Pennsylvania

**Lee, Cheryl D.** (1997), Instructor of Social Work; B.A., George Washington University; M.S.W., Ph.D., Arizona State University

**Lehner, John A.** (1996), Assistant Librarian, B.A., University of Wisconsin, Madison, M.L.S., State University of New York, Albany, J.D., Washington University

**Lentz, Daniel** (1991), Associate Professor of Music Theory and Composition, B.A., Saint Vincent College, M.F.A., Ohio University, Athens

**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), Senior Lecturer of Sociology; B.A., Quincy College; M.A., Ph.D., Ohio State University

## M

**Maimon, Elaine P.** (1996), Professor of English, Vice President and Provost, B.A., M.A., Ph.D., University of Pennsylvania

**Malekzadeh, Ali R.** (1987), Associate Professor of Management; B.S., M.B.A., University of Denver, Ph.D., University of Utah

**Malian, Ida M.** (1990), Associate Professor of Special Education, 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; Associate Vice Provost, B.Ed., University of Queensland, Australia; M.Ed., Ph.D., Arizona State University

**McWilliams, Abigail** (1993), Associate Professor of Management; Director, Master of Business Administration Program, 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

**Midobuche, Eva** (1996), Assistant Professor of Bilingual Education, B.S., M.A., Ed.D., Texas A & M University

**Miller, Paul A.** (1988), Associate Professor of Psychology, B.S., Saint 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

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**Muller, Barbara J.** (1991), Senior Lecturer of Accountancy, B.S., M.B.A., Arizona State University

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## N

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**Nahavandi, Afsaneh** (1989), Professor of Management, 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

**Nathan, Barry** (1997), Visiting Instructor of Management, B.S., University of Maryland College Park, M.A., Ph.D., University of Akron

**Nevin, Ann** (1991), Professor of Special Education, B.A., Westminster College, M.Ed., University of Vermont, Ph.D., University of Minnesota, Twin Cities

**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

**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

**Ohta, Russell J.** (1994), Lecturer of Psychology, B.A., University of Hawaii; M.A., Ph.D., University of Southern California

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## P

**Painter, Suzanne R.** (1995), Assistant Professor of Educational Administration; 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

**Perry, Eleanor A.** (1996), Assistant Professor of Educational Administration; B.A., Douglas College; M.Ed., Rutgers, The State University; Ph.D., University of Oregon

**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

**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

## R

**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, The State 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), Associate 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

**Rodriguez, Christina** (1997), Assistant Professor of Clinical Psychology; B.S., University of Miami; Ph.D., University of Florida

**Ryan, Joseph M.** (1995), Professor of Education and Collaborative Programs; Director, Research Consulting Center; A.B., M.Ed., Boston College; Ph.D., University of Chicago

## S

**Sabatini, Arthur J.** (1991), Assistant Professor of Performance Studies, B.A., M.A., Ohio University; Ph.D., New York University

**Saffo, Mary Beth** (1994), 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), Assistant Professor of Integrative Biology; B.A., University of Toledo, M.S., Central Michigan University; Ph.D., University of Wyoming

**Searle, Mark S.** (1995), Professor of Recreation and Tourism Management; 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 Recreation and Tourism Management; Interim Director, Gerontology Program, B.S., Ithaca College, M.S., Syracuse University; Ph.D., Texas Woman's University

**Shultz, Clifford J.** (1992), Associate 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

**Sim, Khim Ling** (1996), Assistant Professor of Accountancy; B.S., Southeast Missouri State University, M.Acc., Virginia Polytechnic Institute and State University

**Smith, Ellen M.** (1995), Assistant to the Dean, Arts and Sciences, B.A., Cornell University

**Solovey, Mark** (1996), Assistant Professor of History and Philosophy of Science; B.A., Rollins College; M.A., University of Wisconsin, Madison

**Sowell, Evelyn J.** (1990), Professor of Education; B.A., Howard Payne College; M.Ed., Wichita State University, Ed.D., Northern Illinois 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 Program; B.A., University of Iowa, M.A., University of Massachusetts, M.Phil., Ph.D., Yale University

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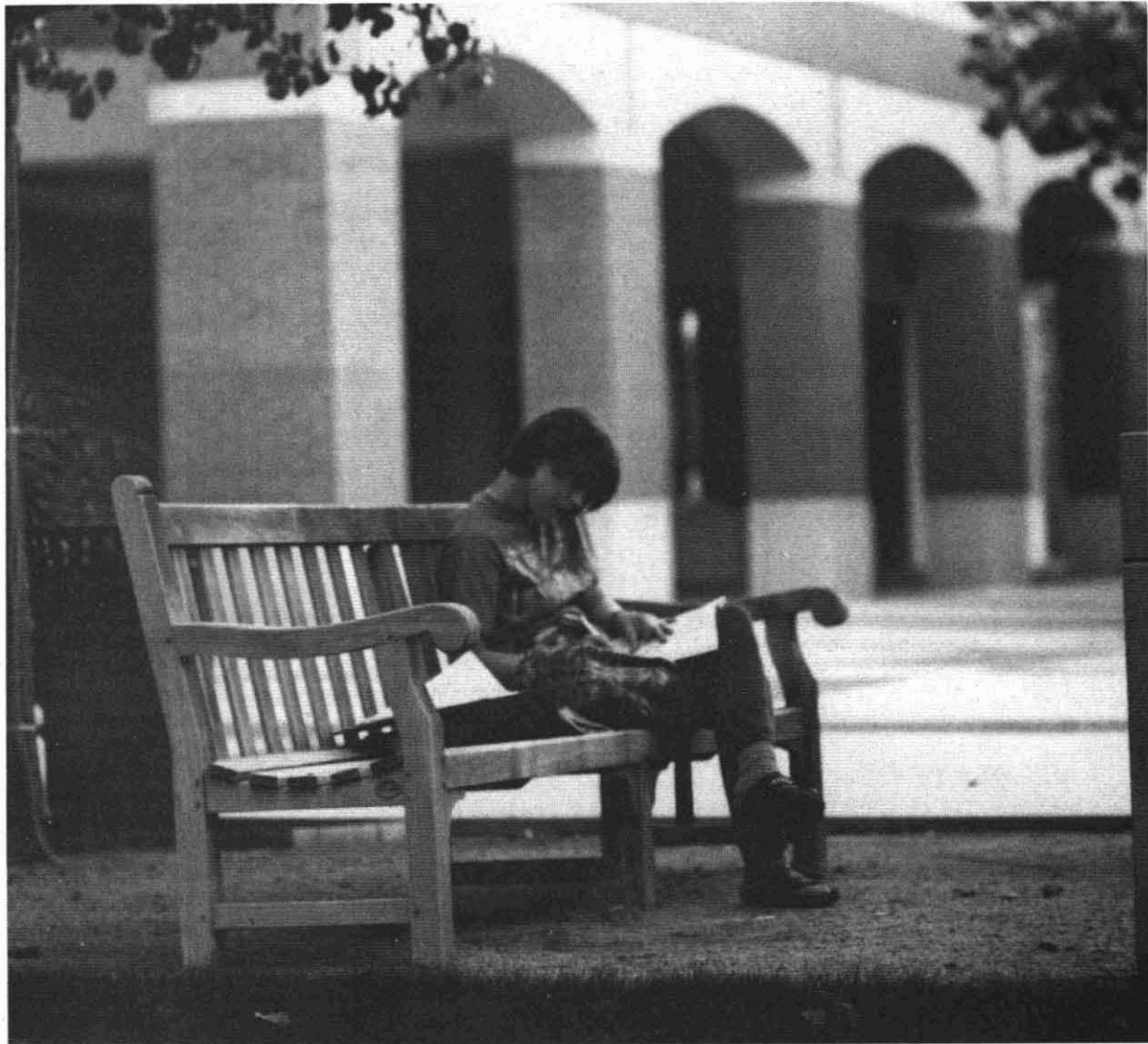
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A quiet spot in which to study in front of the ASU West Faculty and Administration Building.

ASU West file photo

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## Administration

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Vice Provost for Academic Affairs ..... Glenn W. Irvin  
Vice Provost for Planning and Budget ..... Barry R. Bruns  
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Vice Provost for Institutional  
Advancement ..... John E. Collins  
Associate Vice Provost, Extended  
Instruction ..... Christine C. Hall  
Associate Vice Provost ..... Mildred Garcia  
Associate Vice Provost ..... S. Vianne McLean  
Dean of Students: Associate Vice  
Provost, Student Affairs ..... Sylvia A. Silva  
Dean, ASU West Library ..... Helen L. Gater

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Dean, College of Extended Education ..... Bette F. DeGraw  
Dean, University Honors College ..... Ted Humphrey

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Chair, American Studies ..... Thomas W. Cutrer  
Chair, Integrative Studies ..... Thomas V. McGovern  
Chair, Interdisciplinary Arts and  
Performance ..... Michael E. Cerveris  
Chair, Life Sciences ..... Harvey F. Pough  
Chair, Social and Behavioral Sciences ..... Andrew Kirby  
Chair, Women's Studies ..... Sarah J. Stage

## College of Education

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Assistant Dean, College of Education ..... Ray R. Buss

## College of Human Services

Dean, College of Human Services ..... Mark S. Searle  
Chair, Administration of Justice ..... Vincent J. Webb  
Chair, Communication Studies ..... Lesley Di Mare  
Chair, Recreation and Tourism  
Management ..... Richard Gitelson  
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Interim Director, Gerontology Program ..... Janet Shirreffs  
Liaison, Nursing (ASU Main Program) ..... Lasca Beck

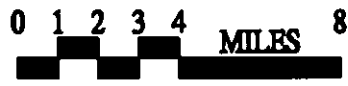
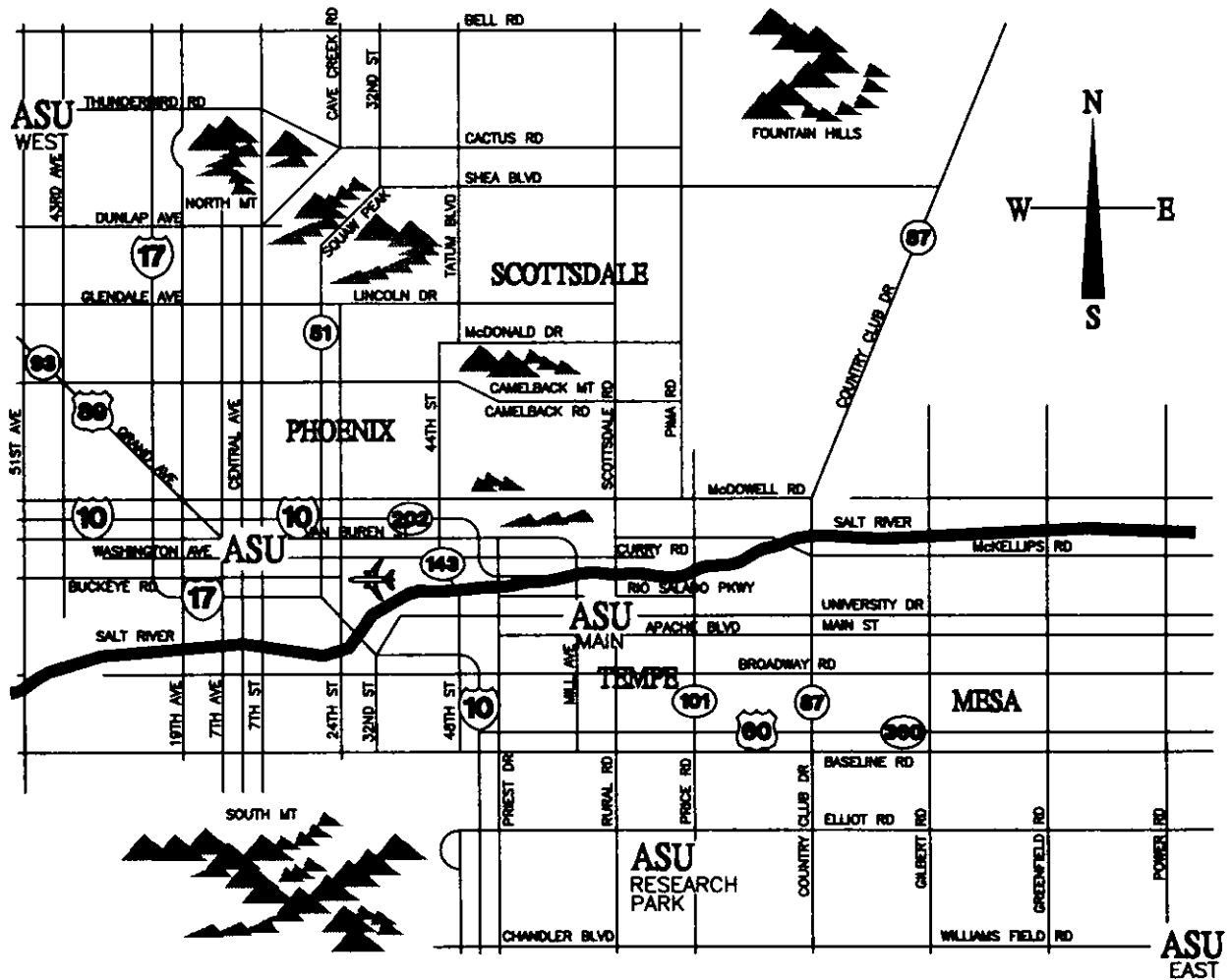
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the Curriculum Program ..... Robert W. Jones

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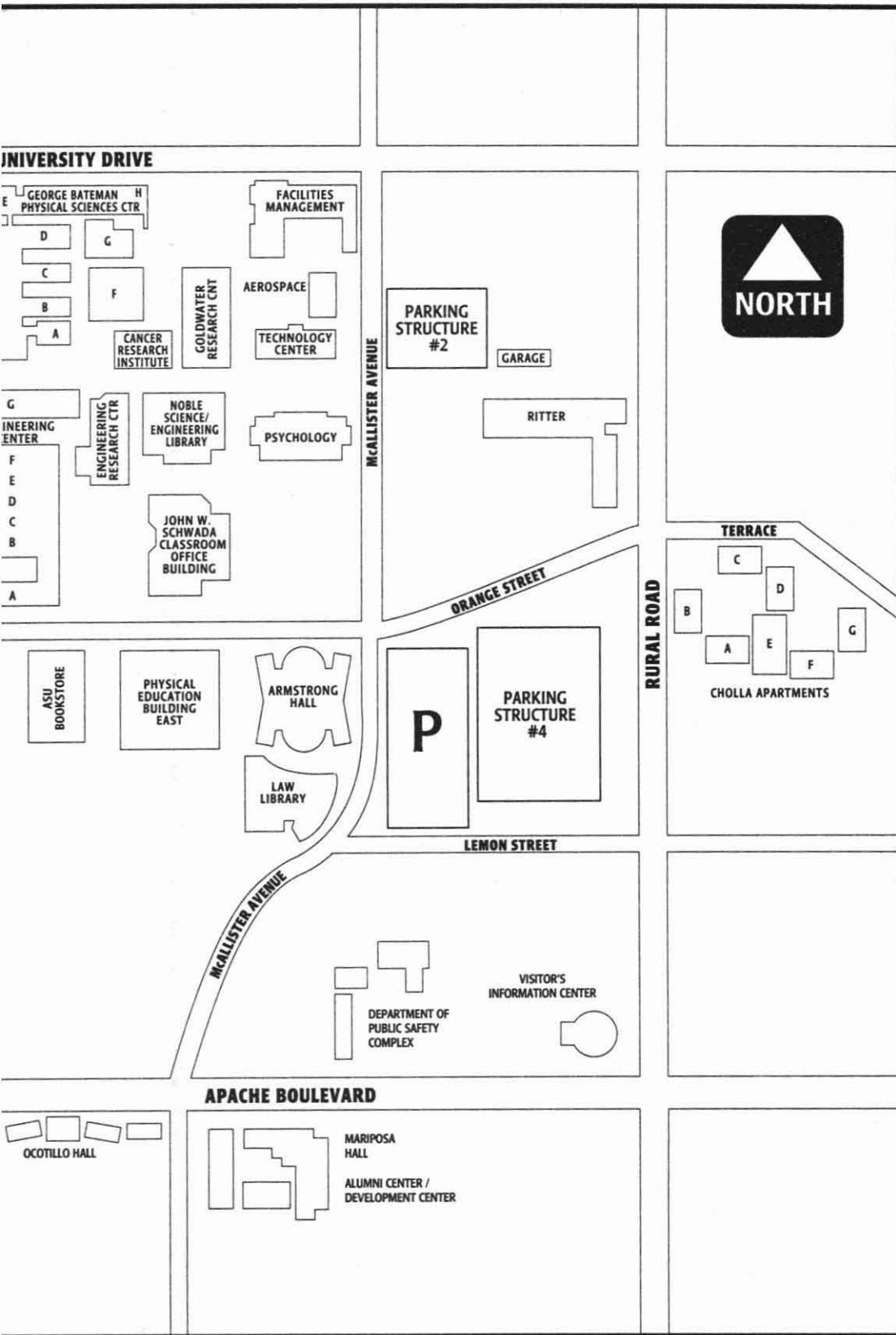
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Director, Master of Business  
Administration Program ..... Abigail McWilliams  
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Business Programs ..... Roger W. Hutt

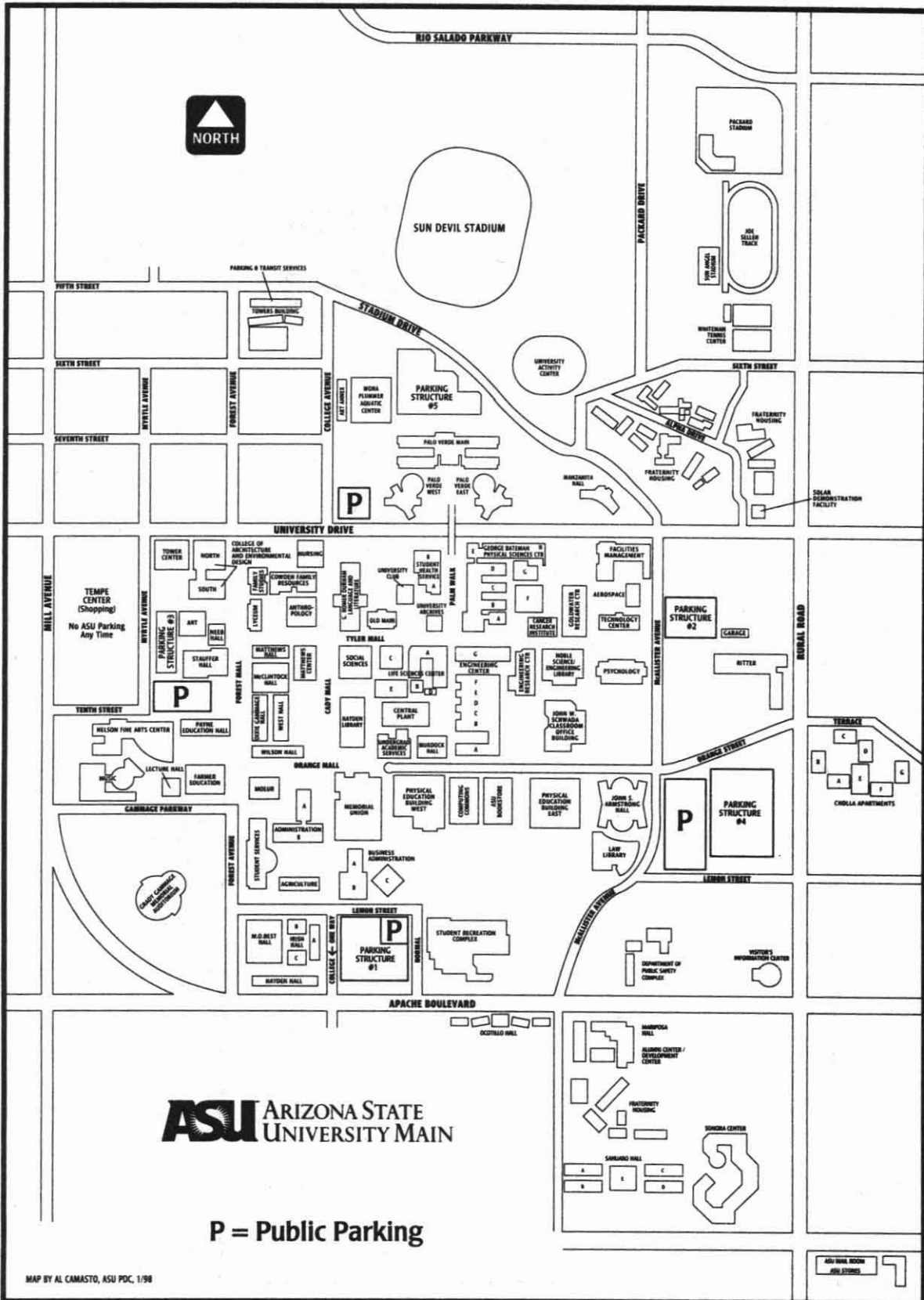
# ASU VICINITY MAP



- ASU - ASU MAIN CAMPUS - Apache Boulevard & Rural Road  
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







**ASU** ARIZONA STATE UNIVERSITY MAIN

**P = Public Parking**

MAP BY AL CAMASTO, ASU PDC, 1/98

ASU INNS, ROOMS AND SUITES

# Building Abbreviations

ADM A	Administration A-Wing	LAW	John S. Armstrong Hall
ADM B	Administration B Wing	LAWLB	John J. Ross-William C. Blakley Law Library
AED	College of Architecture and Environmental Design/North	LIB	Charles T. Hayden Library
AG	Agriculture Building	LL (Wings A–C)	G. Homer Durham Language and Literature Building
AGB1–4	Agribusiness Quads 1–4 <sup>1</sup>	LS (Wings A–C)	Life Sciences Center
AGBFS	Agribusiness Food Service Lab <sup>1</sup>	LSE	Life Sciences E Wing
ANTH (Wings A–C)	Anthropology Building	LYC	Lyceum Theatre
AQUAT (Wings A and B)	Mona Plummer Aquatics Center	MAIN	Old Main
ARCH	College of Architecture and Environmental Design/South	MCENT	A.J. Matthews Center
ARCV	University Archives	MCL	James H. McClintock Hall
ART	Art Building	MHALL	Carrie Matthews Hall
ARWH	Art Warehouse	MOEUR	B.B. Moeur Administration
ASUDC	Downtown Center	MTCHL	Mitchell School (Tempe)
BA	Business Administration Building	MU	Memorial Union
BAC	Business Administration C Wing	MUR	John Murdock Lecture Hall
BKSTR	ASU Bookstore	MUSIC	Music Building
CERA (Wings A and B)	Ceramics Annex	NEEB	L S. Neeb Hall
CFS	Center for Family Studies	NOBLE	Daniel E. Noble Science and Engineering Library
CHAPL	Danforth Chapel	NUR	Nursing Building
CLCC	Classroom Laboratory/Computer Building <sup>2</sup>	PBS	Packard Baseball Stadium
CLRB	Classroom Building <sup>1</sup>	PEBE	Physical Education Building East
CMPIN	Campus Inn	PEBW	Physical Education Building West
CMSC	Community Services Center Building	PPS	Facilities Management
CNTR	Academic Center Building <sup>1</sup>	PRNT	Academic/Business Services Complex <sup>1</sup>
COWDN (Wings A and B)	Cowden Family Resources Building	PS (Wings A H)	George M. Bateman Physical Sciences Center
CP	Central Plant	PSY	Psychology Building
CPCOM	Computing Commons Building	RITT (Wings A and B)	Ritter Building
CRI	Cancer Research Institute	SANDS	Sands Classroom Building <sup>2</sup>
CRNX	Classroom Annex <sup>2</sup>	SDF	Solar Demonstration Facility
CTRSV	Central Services Complex <sup>2</sup>	SHS (Wings A and B)	Student Health Service
EC (Wings A–G)	Engineering Center	SIM	Flight Simulator Building <sup>1</sup>
ECANX	Engineering Center Annex	SRC	Student Recreation Complex
ED	Hiram B. Farmer Education Building	SS	Social Sciences Building
EDB	Ira D. Payne Education Hall	SSV	Student Services Building
EDC	G. D. McGrath Education Lecture Hall	STAD	Sun Devil Stadium
ELAB	Electronics Laboratory Building <sup>1</sup>	STAUF (Wings A and B)	Charles Stauffer Communication Arts Building
ENGRC	Engineering Research Center	TC	Technology Center
FAB	Faculty and Administration Building <sup>2</sup>	TCB	Aeronautics Building
FAC	Nelson Fine Arts Center	TCC	Technology Center Annex
FIELD	University Field Lab	THWH	Theatre Warehouse
FLHLB	Fletcher Library <sup>2</sup>	TOWER (Wings A and B)	University Tower Center
GGMA	Grady Gammage Memorial Auditorium	TRACK	Joe Sellen Track
GHALL	Dixie Gammage Hall	UAC	University Activity Center
GWC	Barry M. Goldwater Center for Science and Engineering Research	UASB	Undergraduate Academic Services Building
IAPNX	Interdisciplinary Arts and Performance Annex <sup>2</sup>	UCB	University Center Building <sup>2</sup>
ICA	Intercollegiate Athletics	UCLUB	University Club
IRISH	Frederick M. Irish Hall	VISIT	ASU Visitor's Information Center
JWS (Wings A and B)	John W. Schwada Classroom Office Building	WH	Warehouse
		WHALL	West Hall
		WILSN	George W. Wilson Hall
		WTC	Whiteman Tennis Center

<sup>1</sup> Located at ASU East

<sup>2</sup> Located at ASU West.



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