

CLINICAL LABORATORY SCIENCES/MEDICAL TECHNOLOGY (CLS)

CLS 100 Introduction to Clinical Laboratory Sciences. (1) F
Introduction to the field of clinical laboratory sciences. Required for Clinical Laboratory Sciences majors.

Enrollment for the following CLS classes is restricted to students admitted to the Clinical Laboratory Sciences Professional Study Program.

CLS 310 Principles of Clinical Chemistry I. (6) S
Theory and application of principles of clinical chemistry with emphasis on laboratory techniques, pathophysiology, methods of analysis, and assessment of procedure. 3 hours lecture, 9 hours lab.

CLS 320 Principles of Clinical Microbiology I. (6) S
Emphasizes disease mechanisms, isolation, and identification of medical significant fungi and bacteria. Includes principles of laboratory safety and quality control. 3 hours lecture, 9 hours lab.

CLS 330 Principles of Clinical Hematology I/Body Fluids. (3) F
Theory and application of principles in hematology, with emphasis on techniques to evaluate blood dyscrasias and analyze body fluids. 2 hours lecture, 3 hours lab.

CLS 410 Principles of Clinical Chemistry II. (2) SS
Continuation of 310 with emphasis on principles of automation, laboratory computers, and method evaluation. 1 hour lecture, 3 hours lab.

CLS 411 Advanced Applications of Clinical Chemistry. (4) F
Clinical application of theory, techniques from Principles of Clinical Chemistry I and II. Emphasis on operation of common laboratory instrumentation, clinical correlation, and radioimmunoassay. Minimum 180 hours practicum.

CLS 420 Principles of Microbiology II. (2) SS
Disease mechanisms and identification of medically significant parasites. Mycobacteria, Actinomycetes, Chlamydia, Rickettsia, Mycoplasma, and viruses. 1 hour lecture, 3 hours lab.

CLS 421 Advanced Applications of Clinical Microbiology. (4) S
Practical laboratory application of the principles of specimen collection, processing, detection, identification, and antimicrobial testing of medically significant bacteria, fungi, and parasites. Minimum 180 hours practicum.

CLS 430 Principles of Clinical Hematology II/Hemostasis. (3) F
Theory and applications of principles in hematology with emphasis on etiology, pathophysiology, clinical manifestations, and treatment of blood dyscrasias/hemostatic defects. 2 hours lecture, 3 hours lab.

CLS 431 Advanced Applications of Clinical Hematology. (4) S
Practical laboratory application of methods/techniques used to evaluate and diagnose blood dyscrasias/hemostatic defects. Applied techniques in body fluid analysis. Minimum 180 hours practicum.

CLS 440 Principles of Clinical Immunology/Immunohematology. (4) F
Theoretical and practical application of clinical immunology and immunohematology. Emphasizes serological techniques that aid in disease diagnosis and blood donor selection. 3 hours lecture, 3 hours lab.

CLS 441 Advanced Applications of Clinical Immunology/Immunohematology. (3) S
Practical laboratory application of the principles of serological methods used in diagnosing disease and selecting blood components for transfusion therapy. Minimum 135 hours practicum.

CLS 450 Principles of Clinical Laboratory Administration. (2) F S
Principles of management with emphasis on the clinical laboratory. Basic management process, personnel supervision, identification, and allocation of resources. *General Studies L2 (if credit also earned in CLS 460)*

CLS 460 Principles of Clinical Laboratory Education. (1) S
Principles of learning with application to the development of instructional objectives, strategies, and evaluation for teaching learning situations in the laboratory. *General Studies L2 (if credit also earned in CLS 450)*

MICROBIOLOGY (MIC)

MIC 205 Microbiology. (3) F S SS

Basic course for persons without credit in BIO 181, emphasizing general principles, role of microorganisms in health, ecology, and applied fields. May not be used for Microbiology major credit unless a diagnosis test is passed. Prerequisites: BIO 100 (or PLB 108 and CHM 101) or instructor approval. *General Studies: S2 (if credit also earned in MIC 206)*

MIC 206 Microbiology Laboratory. (1) F S, SS

Principles and laboratory techniques used in identifying and handling microorganisms. 3 hours lab. Pre- or corequisite: M C 205 or 220. *General Studies: S2 (if credit also earned in MIC 205)*

MIC 220 Biology of Microorganisms. (3) F S

Basic course for persons with credit in BIO 181. Detailed study of microbial cells: their structure, genetics, physiology, and taxonomy. Corequisites: BIO 182, CHM 115.

MIC 302 Advanced Bacteriology Laboratory. (2) F S

Advanced laboratory techniques in bacterial growth, physiology, genetics, microscopy, and basic virology. Required of Microbiology majors. 4 hours lab. Prerequisites: completion of L1 requirement and either A or B. (A) MIC 206 and 220 or (B) M C 205 and 206 and instructor approval. *General Studies: L2 (if credit also earned in MIC 401)*.

MIC 360 Bacterial Physiology. (3) F S

Mechanisms and control of cellular metabolic structures and functions. Prerequisite: MIC 220. Pre- or corequisite: CHM 361 or instructor approval.

MIC 380 Medical Parasitology. (3) F

Parasitic diseases of humans, including life cycle events and clinical manifestations. Prerequisite: M C 205 or 220.

MIC 381 Pathogenic Microbes. (3) S

Host-microbe interactions in infectious disease with emphasis on pathogenesis, host defenses, and molecular mechanisms of microbial virulence. Prerequisite: M C 360 or 6 hours of microbiology with instructor approval.

MIC 401 Research Paper. (1) F S, SS

A paper of 15 or more pages based on library or laboratory research in collaboration with a faculty member. Required of a Microbiology major. Prerequisites: M C 302, completion of L1 requirement. *General Studies: L2 (if credit also earned in MIC 302)*

MIC 420 Immunology: Molecular and Cellular Foundations. (3) F

Molecular and cellular foundations of immunology. Antigen-antigen interactions, cellular response, cytokines, immunogenetics, immunoregulation, autoimmunity, psychoneuroimmunology research/medical perspectives. Prerequisites: CHM 231 (or 331) and MIC 205 (or 220) or instructor approval.

MIC 421 Experimental Immunology. (2) F S

An introduction to the basic techniques, methods, and assays used in immunology. 6 hours lab. Prerequisites: CHM 231 and 331 and MIC 302 or instructor approval.

MIC 425 Advanced Immunology. (3) S 2001

A survey of recent advances in immunology, including lymphocyte membranes, lymphokines, biochemistry, molecular genetics, theoretical immunology, immunoregulation, neuroimmunology, and immunologic diseases. Prerequisite: M C 420 or instructor approval.

MIC 441 Bacterial Genetics. (3) S

Survey of genetic exchange and regulatory processes in bacteria and the viruses. Bacteria and viruses as tools in genetic engineering. Prerequisites: BIO 340 and MIC 205 (or 220) or instructor approval.

MIC 442 Bacterial Genetics Laboratory. (1) N

Techniques of mutagenesis, mapping, and strain construction. 4 hours lab. Prerequisites: M C 206, 302. Pre- or corequisite: M C 441.

MIC 445 Techniques in Molecular Biology/Genetics. (2) F S

Molecular genetic principles, plasmid construction, purification, and characterization. PCR, mutagenesis, hybridization, and sequence analysis, protein quantitation, immunologic detection, and electrophoresis. Prerequisites: BIO 340 and M C 302 or instructor approval.

NOTE: For the General Studies requirement, courses, and codes (such as L1, N3, C, and H), see "General Studies," page 85. For graduation requirements, see "University Graduation Requirements," page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 58.

MIC 446 Techniques in Molecular Biology/Genetics Lab. 2 F, S
Molecular genetic techniques; plasmid construction, purification and characterization; PCR mutagenesis hybridization and sequence analysis; protein quantitation; immunologic detection and electrophoresis. Prerequisite: M C 445.

MIC 470 Bacterial Diversity and Systematics. (4 F
Biology classification and enrichment culture of the non-pathogenic bacteria 2 hours lecture 6 hours lab Prerequisite: MIC 302.

MIC 485 General Virology. (3) F
Fundamentals of viruses: the replication, pathogenesis, and ecology Prerequisites: BIO 340 and CHM 331 or instructor approval

MIC 486 General Virology Laboratory. (2) S
Fundamentals of virus detection: isolation and assay propagation of virus in mammalian cell culture recombinant virus and vector construction 6 hours lab Prerequisite: M C 302 Prerequisite: M C 485

MIC 494 ST: Special Topics. (3) N
(a) Clinical Bacteriology Laboratory

MIC 495 Undergraduate Research. (1-6) F, S, SS
Supervised research in microbiology May be repeated for credit Lab Prerequisites: M C 206 220 302, instructor approval.

MIC 527 Neuroimmunology. (3) S
Study of mind's influence on immunity and the immune system's influence on the mind neuroimmunologic diseases and the neuroimmunologic curriculum seminar Prerequisite: M C 420 or instructor approval

MIC 581 Molecular Mechanism of Pathogenesis. (3) S
Pathogenic mechanisms and host responses in viral and/or bacterial diseases Prerequisites: M C 381 and 420 or instructor approval

MIC 585 Molecular Virology. (3) N
Selected topics concerning molecular aspects of eukaryotic virus replication and pathogenesis Prerequisite: instructor approval

MIC 591 Seminar. (1-3) F, S
Topics may be selected from the following
(a) Bacterial Ecology
(b) Current Research in Microbiology
(c) Enzymology
(d) Genetic Engineering
(e) Genetics
(f) Immunology
(g) Molecular Virology
(h) Neuroimmunology
(i) Pathogenic Bacteriology

Department of Military Science

Army ROTC

Lt. Col. Wylie K. Bearup
Chair
(TCB 104) 480/965-3318

PROFESSORS

BEARUP COX, DALGLEISH

ASSISTANT PROFESSORS

BLEDSON, DENT, MASSEY, POOLE, ROBERTS

INSTRUCTORS

ALVAREZ ANDREWS, BEAMER, GRIFFIN MAATTA,
R NGENOLDUS, WILLIAMS

PURPOSE

The Department of Military Science curriculum consists of the basic course (MIS 101, 102, 201, and 202) and the advanced course (MIS 301, 302, 401, and 402). The goal of this professional education curriculum is to prepare students

with leadership potential to be commissioned as U.S. Army officers. Objectives include developing the following characteristics in the students: leadership and managerial skills; the ability to think creatively; the ability to speak and write effectively; appreciation of the requirements for national security; and an understanding of the nature and functions of the U.S. Army. Upon successful completion of the advanced course and graduation, qualified students receive commissions in the Active Army on a competitive basis, U.S. Army Reserve, or Army National Guard.

In addition to the military science curriculum, core courses in the field of national defense studies are both an integral and parallel source of the department's program. Integrally, they provide MIS courses at all levels with topical intensity and highlight such professionally related areas as military technology; weapons procurement; national intelligence, security, and counterintelligence; civil-military relations; security coalitions and regional defense communities; national, regional, and global levels of strategy; generalship skill in action, deterrence dynamics and structure; military doctrine, service branch livelihood, appropriations rivalry, and interservice cooperation, personnel recruitment, morale, training, advancement, and bureaucratic organization; military reform; threat and threat perception; military-historical experience and analysis; media and biographical insights, the rationale and matrices of security analysis and research; and independently selectable topics.

The department also fields an independent but parallel set of 400-level courses in the areas of geostrategic, politico-strategic, and national defense policy and analysis available to students irrespective of Reserve Officers' Training Corps (ROTC) status, departmental major, or college affiliation for assigned credit toward General Studies, social science, and global awareness requirements for graduation (See "Classification of Courses," page 54 for a description of course 499 Individualized Instruction).

GENERAL QUALIFICATIONS

Basic Course. Any student who is enrolled in ASU or approved by the professor of military science can enter into military science basic classes. It is strongly recommended that the student be in good physical shape because some of the curriculum requires physical exertion.

Advanced Course. Any student who is enrolled in ASU (or approved by the professor of military science) may participate in military science advanced classes. However, to be fully enrolled in the advanced course and compete for and obtain a commission in the U.S. Army, students must meet the following requirements:

1. be a citizen of the United States (noncitizens may enroll but must obtain citizenship before commissioning),
2. be of sound physical condition and pass the U.S. Army physical fitness test,
3. meet the required professional military educational requirements; and
4. be at least 17 years of age for entrance into the advanced course and be able to complete all commissioning requirements before age 27.

Only those students in the basic and advanced courses who meet the required standards according to military regulations are eligible to receive financial assistance through

the U.S. Army. Faculty of the Department of Military Science are available during normal office hours to answer questions or provide counseling.

The following are various options open to students who wish to obtain a commission in the U.S. Army. Contact the Department of Military Science personnel for more information.

Four-Year Program. Students may enroll in Army ROTC during their freshman year. They take the basic course during the first two years, receiving a total of 12 semester hours of credit for four semesters of study. Upon satisfying the requirements, they enter the advanced course, where they earn 12 additional semester hours for four semesters of study. Students are also required to attend a five-week advanced summer camp at Fort Lewis, Washington, between their junior and senior years. All commissioned officers must meet certain Professional Military Education requirements by completing courses in English, math, and computer literacy. Selected majors such as nursing, engineering, and architecture, among others, may require an additional semester or two of summer school, to complete all requirements for a degree and commission without excessive course overloads. Upon successful completion of the advanced course and requirements for a degree, students are commissioned as second lieutenants in the Active Duty Army, U.S. Army Reserve, or Army National Guard.

Two-Year Program. Students must have at least two academic years of college work remaining, either at the undergraduate or graduate level. The student must also have reached academic junior status. This program is open to all students with the exception of three- and four-year Army ROTC scholarship winners (see "Scholarship Programs" on this page). Students seeking enrollment in the two-year program should make application during the spring semester of the calendar year in which they desire to enter the program. They must provide SAT/ACT scores and pass the Army physical fitness test. After successfully completing a paid five-week basic camp, students may enroll in the advanced course. (The camp is conducted during June and July at Fort Knox, Kentucky.) Students who have previous military experience or who are currently members of the National Guard or Reserves may be admitted directly into the two-year program, provided they are academic juniors. They then follow the same program and meet the same requirements as stated for advanced course students in the four-year program.

Qualifications for Admittance to the Advanced Course. The following qualifications are required for admittance to the advanced course:

1. successful completion of the basic course for the students in the four-year ROTC program; for the students in the two-year program, selection for and completion of the six-week basic summer camp or prior military service;
2. score at least 550 on SAT or 19 on ACT;
3. passing the Army physical examination;

4. achieving and maintaining the minimum cumulative GPA required for graduation in the student's selected major, but no less than 2.00;
5. attainment of at least junior class standing; and
6. maintenance of full-time student status.

Pay and Allowances. Each advanced course student receives one-half the pay of a second lieutenant during attendance at the six-week advanced camp. Uniforms, housing, and meals are provided at camp without cost to the students, and they are reimbursed at the current mileage rate for travel to and from the camp. Students who attend basic camp receive the pay of an army recruit during attendance at basic camp as well as the current mileage rate for travel to and from the camp. All students in the advanced course regardless of scholarship status, are paid about \$1,500 tax-free for each of these two years.

Simultaneous Membership Program. Under this program, ROTC students may simultaneously be members of the Army Reserves or the National Guard. The combination of advanced course allowance and pay for Army Reserve or National Guard participation provides more than \$1,200 for each semester's involvement.

Scholarship Programs. The Army ROTC offers scholarship programs for outstanding young men and women who are motivated toward a career as professional officers in the U.S. Army. These scholarships are awarded in varying amounts for tuition. In addition, the scholarship pays \$150.00 per month subsistence allowance and \$225.00 each semester for textbooks and supplies. A scholarship for four years is available to freshmen who enter the four-year program. Applications must be submitted in accordance with a schedule furnished by high school counselors. Selection is made on a nationwide basis. Scholarships are also available for three- and two-year periods, commencing with the sophomore and junior years of ROTC respectively. Applications are open to all students in good standing with the university; previous ROTC or military experience is not required for application for three- and two-year scholarships. Selection is made by a review board on campus. Acceptance of any of the three scholarship programs requires a service commitment to serve in the Active Army for a period of up to four years after commissioning and graduation.

Active Duty Requirements. Graduates of Army ROTC may serve as officers in the Active Army, Army National Guard, or Army Reserves. Active duty commitments may vary from four years to as little as three months. Scholarship students have up to a four-year active duty commitment.

Graduate and Professional Studies Programs. A delay from call to active duty for up to four years is available to outstanding students who desire to earn graduate or professional degrees. Special programs for graduate and professional studies are available to both active Army appointees and Reserve component appointees in the following areas: medicine, osteopathy, and clinical psychology.

NOTE: For the General Studies requirement courses and codes (such as L1, N3, C, and H) see General Studies page 85. For graduate requirements see University Graduation Requirements page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses, page 58.

MILITARY SCIENCE (MIS)**MIS 101 Introduction to the Military.** 3 F

Overview of mission organization and structure of the Army and its role in national defense, discussion of current military issues 3 hours lecture conference, 2 hours lab

MIS 102 Land Navigation, First Aid, and Survival. 3 S

Introduction to military maps and land navigation, first aid and first aid techniques basic outdoor survival skills 3 hours lecture conference 2 hours lab

MIS 201 American Military History. 3 F

Study of the role of the military in American federalism and participation in times to the present day 3 hours lecture conference 2 hours lab

MIS 202 Introduction to Leadership Dynamics. 3 S

Introduction to interpersonal dynamics involved in military team operations, theory and application of military leadership principles 3 hours lecture conference 2 hours lab

MIS 205 ROTC Basic Camp. 4 SS

Six week training program emphasizing practical hands on skills and leadership development Taken in lieu of MIS 101 102 201 202 Conducted at Fort Knox Kentucky

MIS 301 Advanced Military Science I. 3 F

Theory and dynamics of the individual soldier and military units in offensive combat operations 2 hours lecture conferences 1.5 hours of Leadership Practica Application 1 2 day field exercise 3 1 day field exercises Prerequisites MIS 101 and 1 2 and 201 and 202 or equivalents Corequisite EPE 105 Physical Education Activity Army Master Fitness

MIS 302 Advanced Military Science II. 3 S

Theory and dynamics of military units in defensive combat operations 2 hours lecture-conferences 1 5 hours Leadership Practica Application 1 3 day field exercise 2 1 day field exercises Prerequisites MIS 101 and 102 and 201 and 202 or equivalents Corequisite EPE 105 Physical Education Activity Army Master Fitness

MIS 303 ROTC Advanced Camp. 4 SS

Six week training program emphasizing leadership development and advanced military knowledge including tactics and navigation and physical training Conducted at Fort Lewis Washington Prerequisites MIS 301 302

MIS 401 Advanced Military Science III. 3 F

The military legal system preparation and conduct of military training leadership development ethics and professionalism of the military officer 3 hours lecture-conferences 2 hours Leadership Practica Application 1 2 day field exercise 3 1 day field exercises Prerequisites MIS 301 302 Corequisite EPE 1 5 Physical Education Activity Army Master Fitness

MIS 402 Advanced Military Science IV. 3 S

Military correspondence career planning and personal affairs in service conduct of training leadership development ethics and professionalism of the military officer 3 hours lecture 2 hours Leadership Practica Application 1 3 day field exercise 2 1 day field exercises Prerequisites MIS 301 302 Corequisite EPE 105 Physical Education Activity Army Master Fitness

MIS 410 American Defense Policy I. 3 F

Evolution organization and execution of U.S. national security policy *General Studies SB*

MIS 412 American Defense Policy II. 3 S

Contemporary problems and analytical issues in the format and implementation of U.S. national security Prerequisite MIS 410 *General Studies SB*

MIS 414 Comparative Defense Policy Analysis. 3 F

Historical problems and analytical issues in the evolution organization application and control of effective military establishments in various political systems *General Studies SB*

MIS 416 Soviet/CIS Foreign and Defense Policies 3 S

Analysis of foreign and security policies of the Soviet Union/CIS and of the success states to the Warsaw Pact *General Studies SB*

MIS 499 Individualized Instruction: National Defense Analysis.

1 3

Molecular and Cellular Biology

Bertram L. Jacobs

Director, Executive Committee

480/965-0743

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GRADUATE PROGRAMS

The interdisciplinary M.S. and Ph.D. degrees with a major in Molecular and Cellular Biology are administered by the Interdisciplinary Committee on Molecular and Cellular Biology. The participating faculty are drawn primarily from four core departments (the Departments of Biology, Chemistry and Biochemistry, Microbiology, and Plant Biology), with additional faculty from the Departments of Anthropology and Physics and Astronomy.

For more information, contact the director or refer to the *Graduate Catalog*

MOLECULAR AND CELLULAR BIOLOGY (MCB)

See the *Graduate Catalog* for the MCB courses.

Department of Philosophy

Brad Armentdt

Chair

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REGENTS' PROFESSOR

MURPHY

PROFESSORS

CREATH, F. TCH, HUMPHREY,

MA ENSCHEN, WHITE

ASSOCIATE PROFESSORS

ARMENDT, BLACKSON, COHEN, de MARNEFFE

GULESERIAN, KOBES, MCGREGOR, REYNOLDS

ASSISTANT PROFESSOR

DEVLIN

PHILOSOPHY—B.A.

The major in Philosophy consists of 45 semester hours, 33 of which must be upper division hours. In addition to the 45 semester hours, the mathematics proficiency requirement must be met by completing MAT 117 or higher. In exceptional cases, up to nine units may be in related fields as approved by the undergraduate advisor. Required courses are as follows:

PHI 301 History of Ancient Philosophy *HU, H*3PHI 302 History of Modern Philosophy *HU, H*3

NOTE: For the General Studies requirement courses and codes (such as L1, N3, C and H) see "General Studies" page 85. For graduation requirements see "University Graduation Requirements" page 81. For an explanation of additional non-business courses offered but not listed in this catalog see "Catalogation of Courses," page 58.

PHI 305	Ethical Theory <i>HU</i>	3
	or PHI 335 History of Ethics <i>HU</i> 3)	
PHI 312	Theory of Knowledge <i>HU</i>	3
	or PHI 314 Philosophy of Science <i>HU</i> 3)	
PHI 316	Metaphysics <i>HU</i>	3
	or PHI 317 Philosophy of Mind <i>HL</i> 3)	
PHI 333	Introduction to Symbolic Logic	3
PHI 350	Philosophical Argument and Exposition <i>L2</i>	3
	Choose two courses below	6
PHI 401	Rationalism (3)	
PHI 402	Empiricism <i>HU</i> 3)	
PHI 403	Contemporary Analytic Philosophy <i>HU</i> 3)	
PHI 433	Advanced Symbolic Logic 3)	
PHI 420	Topics in Philosophy 3)	
PHI 494	ST: Special Topics 3)	

Total 27

Exceptions by special permission of the chair only. PHI 420 may be taken more than once.

Students planning to do graduate work in philosophy should consult an advisor to develop an appropriate selection of courses at the 300 and 400 levels. A minimum grade of "C" is necessary for each course used to fulfill the major requirements. See "College Degree Requirements," page 324.

History and Philosophy of Science. The faculty in the Department of Philosophy offer courses bearing the HPS prefix. With the consent of the director of undergraduate studies, these courses may be taken to satisfy the requirements of the Philosophy major

MINOR IN PHILOSOPHY

A minor in Philosophy consists of 18 semester hours, of which at least 12 must be in the upper division and approved by an advisor in the department. All courses must be passed with a minimum grade of "C."

GRADUATE PROGRAM

The faculty in the Department of Philosophy offer a graduate program leading to the M.A. degree that prepares one for either teaching in a community college or pursuing a Ph.D. degree in Philosophy. Consult the *Graduate Catalog* for requirements.

HISTORY AND PHILOSOPHY OF SCIENCE (HPS)

HPS 322 History of Science. (3) F
Development and application of scientific thinking from ancient times through the 17th century *General Studies HU H*

HPS 323 History of Science. (3) S
Development and application of scientific thinking from the 18th century to the present. *General Studies HU, H.*

HPS 325 History of Chinese Science. (3) N
Explores development of traditional Chinese science in the context of Chinese thought and society and in comparison with developments elsewhere. Lecture/discussion. Cross-listed as HIS 309. Credit is allowed on y for HIS 309 or HPS 325

HPS 330 History of Biology: Conflicts and Controversies. (3) A
Focuses on the 19th and 20th centuries, considering biology as a discipline in evolution and problems of heredity, development, and cell theory. Cross-listed as B O 316. Credit is allowed on y for B O 316 or HPS 330 *General Studies H*

HPS 331 History of Medicine. (3) A
Scientific study of the human body, changing theories of disease, evolution of practical operations on treatment, and the emerging institution of a nation of medical practice. Students may receive credit for this course and B O 218. Cross-listed as B O 318. Credit is allowed on y for B O 318 or HPS 331 *General Studies H*

HPS 402 Technology, Society, and Human Values. (3) A
Values that motivate humankind to create technology. Areas of conflict and resolution of conflict between values and technology. Readings and discussions with visiting lecturers. Prerequisite: Honors standing

HPS 410 Professional Values in Science. (2-3) A
Considers issues related to values in science such as collaboration, finances, legal issues, mentorship, ownership of ideas, scientific integrity. Discussion of student projects. Cross-listed as BIO 416. Credit is allowed on y for B O 416 or HPS 410 *General Studies L2*

PHILOSOPHY (PHI)

PHI 101 Introduction to Philosophy. (3) F S SS
Exploration of issues that philosophers have traditionally considered including morality, reality, and knowledge. *General Studies HU*

PHI 103 Principles of Sound Reasoning. (3) F S, SS
Facilities, validity, and soundness of arguments. May include syllogistic, elementary symbolic, inductive logic, and scientific method. Prerequisite: ENG 101 *General Studies L1/HU.*

PHI 301 History of Ancient Philosophy. (3) F
History of western philosophy from its beginnings through the Hellenistic period. *General Studies HU H*

PHI 302 History of Modern Philosophy. (3) S
History of western philosophy from the Renaissance through Kant. *General Studies HU H*

PHI 304 Existentialism. (3) N
Covers such topics as absurdity, authenticity, the meaning of life and death, responsibility and subjectivity. May include readings in phenomenology. *General Studies HU*

PHI 305 Ethical Theory. (3) A
Current theories about the nature of morality (metaethics) and about what is right and wrong (normative ethics). Prerequisite: PHI 306 or 307 or instructor approval. *General Studies HU.*

PHI 306 Applied Ethics. (3) F S SS
Philosophical discussion of contemporary moral and political issues such as abortion, euthanasia, animal rights, affirmative action, and sexual rights. *General Studies HU*

PHI 307 Philosophy of Law. (3) A
Nature and source of law and its relation to morality. Legal rights, enforcement of moral conduct, obedience, liability and responsibility, punishment, judicial reasoning, justice, property and differences between theories of natural and positive law. *General Studies HU*

PHI 308 Philosophy of Art. (3) A
Central problems in philosophy of art, e.g. the nature of a work of art, modern and traditional theories of art, aesthetic perception and experience and objectivity and relativism. *General Studies HU*

PHI 309 Social and Political Philosophy. (3) A
Alternative principles and methods relevant to problems of human association and conflict, justice and power, freedom and equality and autonomy and order are discussed. Prerequisite: PHI 305 or instructor approval. *General Studies HU*

PHI 310 Environmental Ethics. (3) A
Examination of a full range of philosophical positions pertaining to our moral relationship to the natural world, anthropocentrism, individualism, biocentrism. *General Studies HU*

PHI 311 Philosophy in Literature. (3) A
Selected works of literature introduce philosophical problems such as the nature of moral goodness and people's relation to the world and other people. *General Studies HU*

PHI 312 Theory of Knowledge. (3) A
Nature, sources and limits of human knowledge. Topics may include truth, a priori knowledge, empirical knowledge, perception, induction and skepticism. Prerequisite: 1 course from among PHI 101, 103, 301, 302, 333, 350. *General Studies HU.*

PHI 314 Philosophy of Science. (3) A
The structure and justification of scientific theories, explanation and theory change. The roles of observation and laws, theoretical concepts and entities, reduction, probability, confirmation, space and time and causation. *General Studies HU*

PHI 315 Philosophy of Language. (3) A
Problems pertaining to the nature of language including meaning, reference, truth, definition, analyticity, translativity, synonymy and contributions of contemporary linguistics. Prerequisite: PHI 103 or 333 or 350. *General Studies HU.*

PHI 316 Metaphysics. 3 A
 Problems pertaining to the nature of reality. Topics may include nature of person, minds, substance, universals, space, time, causation, and modality. Prerequisite: 1 course from among PH 101, 103, 301, 333, 350. *General Studies: HU*

PHI 317 Philosophy of Mind. (3) A
 Nature of consciousness. The common sense view of mind, behavior, and the relationship between mind and body. Topics include self-knowledge, and knowledge of other minds. Prerequisite: 1 course from among PH 101, 103, 301, 302, 333, 350. *General Studies: HU*

PHI 318 Philosophy of Religion. (3) A
 Classic arguments for the existence of God. The argument from evil against the existence of God. Justification of religious belief. *General Studies: HU*

PHI 319 Philosophy of Computing. 3 N
 Philosophical problems surrounding the theory of computation, Turing machines, mind, and Artificial Neural Network computing, ethics, and epistemology of computing. Lecture and discussion. *General Studies: N3, HU*

PHI 325 Philosophy of Social Science. (3) N
 Philosophical problems surrounding the aims, structure, and methods of the social sciences. *General Studies: HU, SB*

PHI 332 19th-Century Philosophy. 3 N
 The history of 19th-century philosophy, emphasizing either the German or the British traditions. Prerequisite: PH 302. *General Studies: HU*

PHI 333 Introduction to Symbolic Logic. (3) A
 Symbolic techniques emphasizing deductions and proofs in propositional and first-order predicate calculus.

PHI 335 History of Ethics. (3) A
 Major works of moral philosophy both ancient and modern, such as those by Plato, Aristotle, Hobbes, Hume, Kant, and Mill. Prerequisite: PH 101 or 306 or 307 or instructor approval. *General Studies: HU*

PHI 350 Philosophical Argument and Exposition. 3 S
 The development of techniques of philosophical argument and exposition. Frequent written exercises. Course content may vary with instructor. Prerequisites: major instructor approval. *General Studies: L2*

PHI 401 Rationalism. 3 N
 Examination of classical philosophical rationalism, as in Descartes, Spinoza, Malebranche, Leibniz. Contemporary rationalist thought may also be examined. Prerequisites: PHI 302, 1 course from among PH 305, 309, 312, 316, 317.

PHI 402 Empiricism. 3 N
 Examination of representative 17th-century or contemporary philosophical empiricism, e.g., Bacon, Hobbes, Locke, Butler, Berkeley, Reid, Hume, Mill, Carnap, and Ayer. Prerequisites: PHI 302 and 305 or 309 or 312 or 316 or 317. *General Studies: HU*

PHI 403 Contemporary Analytic Philosophy. 3 A
 Aims and methods of such 20th-century philosophers as Frege, Moore, Russell, Wittgenstein, Carnap, Ayer, W. V. Quine, Austin, Strawson, Quine, and Sellars with application to metaphysics and epistemology. Prerequisites: PH 302, 1 course from among PHI 312, 314, 315, 316, 317, 401, 402. *General Studies: HU*

PHI 413 Advanced Symbolic Logic. 3 N
 Properties of formal systems axiomatizing propositional and first-order predicate logic. May also include modal logic, number theory, and models of logic. Prerequisite: PH 333.

PHI 420 Topics in Philosophy. (3) A
 Course descriptions on file in department. Topics may be selected from the following:
 a. History of Philosophy
 b. Metaphysics, Epistemology
 c. Philosophy of Language, Logic
 d. Philosophy of Science
 e. Value Theory

Courses may be repeated for credit. Prerequisite: one relevant upper division PH course or instructor approval.

PHI 494 ST: Special Topics. 3 N

PHI 591 Seminar. 1-3 A
 Topics may be selected from the following:
 a. Aesthetics
 b. Epistemology
 c. Ethics
 d. History of Philosophy
 e. Logic
 f. Metaphysics
 g. Philosophy of Language
 h. Philosophy of Law
 i. Philosophy of Science
 j. Social and Political Philosophy

Department of Physics and Astronomy

Howard G. Voss
 Chair

(PS F470) 480/965-3561

www.asu.edu/clas/dopa/dopa.html

REGENTS' PROFESSOR SPENCE

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ASSOCIATE PROFESSORS

AANNESTAD, ACHARYA, ALARCON, BENIN,
 CHAMBERLIN, CULBERTSON, HERBOTS,
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PHYSICS—B.S.

Students majoring in Physics may pursue one of two options:

Option I. Designed for students who wish to pursue physics at the bachelor or graduate degree levels, option I consists of the following required courses:

Choose between the course combinations below	4
PHY 150 Physics I S1/S2 4	4
PHY 12 University Physics I Mechanics S1/S2 3	3
PHY 22 University Physics Laboratory I S1/S2 1	1
Choose between the course combinations below	4
PHY 151 Physics II S2 4	4
PHY 131 University Physics II Electricity and Magnetism S1/S2 3	3
PHY 132 University Physics Laboratory II S1/S2-	
PHY 21 Mathematical Methods in Physics I	3
PHY 222 Physics III S1/S2	4
PHY 302 Mathematical Methods in Physics II	2
PHY 330 Classical Particles, Fields, and Matter I	3
PHY 311 Classical Particles, Fields, and Matter II	3
PHY 314 Quantum Physics I	3
PHY 315 Quantum Physics II	3
PHY 333 Electronic Circuits and Measurements	3

PHY 334 Advanced Laboratory I	2
PHY 412 Classical Particles, Fields, and Matter III	3
PHY 416 Quantum Physics III	3
PHY 441 Statistical and Thermal Physics I	3
PHY 465 Advanced Laboratory II	2
Total	45

- ¹ Both PHY 121 and 122 must be taken to secure S1 or S2 credit.
- Both PHY 131 and 132 must be taken to secure S1 or S2 credit.

Supporting mathematics courses are as follows.

Choose between the course combinations below ... 12 or 10

MAT 270 Calculus with Analytic Geometry I NI	4
MAT 271 Calculus with Analytic Geometry II NI	4
MAT 272 Calculus with Analytic Geometry III NI	4
<i>or</i>	
MAT 290 Calculus I NI	5
MAT 291 Calculus II	5

Additional courses in physics and related fields are selected with the approval of the advisor. French, German, or Russian is strongly recommended to fulfill the foreign language requirement.

Option II. The interdisciplinary option II is designed for students who wish to obtain an undergraduate physics preparation for entry into other professions or graduate programs. A total of 53 hours are required including the following courses:

Choose between the course combinations below	4
PHY 150 Physics I S1/S2 (4)	
<i>or</i>	
PHY 121 University Physics I: Mechanics S1/S2 (3)	
PHY 122 University Physics Laboratory I S1/S2 (1)	
Choose between the course combinations below	4
PHY 151 Physics II S1/S2 (4)	
<i>or</i>	
PHY 131 University Physics II: Electricity and Magnetism S1/S2 (3)	
PHY 132 University Physics Laboratory II S1/S2 (1)	
PHY 201 Mathematical Methods in Physics I	3
PHY 252 Physics III S1/S2	4
PHY 302 Mathematical Methods in Physics II	2
PHY 310 Classical Particles, Fields, and Matter I	3
PHY 311 Classical Particles, Fields, and Matter II	3
PHY 314 Quantum Physics I	3
PHY 315 Quantum Physics II	3
PHY 333 Electronic Circuits and Measurements	3
PHY 334 Advanced Laboratory I	2
PHY 412 Classical Particles, Fields, and Matter III	3
PHY 441 Statistical and Thermal Physics I	3
Total	40

- ¹ Both PHY 121 and 122 must be taken to secure S1 or S2 credit.
- ² Both PHY 131 and 132 must be taken to secure S1 or S2 credit.

The remaining courses are selected from physics and an area of concentration as approved by the student's advisor. Examples of possible areas of concentration are astronomy, astrophysics, materials science, physical chemistry, applied mathematics, geophysics, biological physics, philosophy of science, scientific journalism, and premedical and prelaw

programs. French, German, or Russian is strongly recommended to fulfill the foreign language requirement. Supporting mathematics courses are as follows:

Choose between the course combinations below ... 12 or 1

MAT 270 Calculus with Analytic Geometry I NI	4
MAT 271 Calculus with Analytic Geometry II NI	4
MAT 272 Calculus with Analytic Geometry III NI	4
<i>or</i>	
MAT 290 Calculus I NI	5
MAT 291 Calculus II	5

Emphasis in Astronomy

The astronomy faculty offer courses in astronomy both for nonscience majors and for science and physics majors. For an emphasis in astronomy, the following courses (or their equivalents) should be taken:

AST 321 Introduction to Planetary and Stellar Astrophysics S1/S2	3
AST 322 Introduction to Galactic and Extragalactic Astrophysics S1/S2	3
AST 421 Astrophysics I	3
AST 422 Astrophysics II	3
AST 499 Individualized Instruction	3
Total	15

- Both AST 113 and 321 must be taken to secure S1 or S2 credit.

- ¹ Both AST 114 and 322 must be taken to secure S1 or S2 credit.

MINOR IN ASTRONOMY

The minor in Astronomy consists of a minimum of 24 semester hours. Required courses are as follows:

AST 113 Astronomy Laboratory I S1/S2 ¹	1
AST 114 Astronomy Laboratory II S1/S2	1
AST 321 Introduction to Planetary and Stellar Astrophysics S1/S2	3
AST 322 Introduction to Galactic and Extragalactic Astrophysics S1/S2 ¹	3
Choose between the course combinations below	4
PHY 150 Physics I S1/S2 (4)	
<i>or</i>	
PHY 121 University Physics I: Mechanics S1/S2 (3)	
PHY 122 University Physics Laboratory I S1/S2 (1)	
Choose between the course combinations below	4
PHY 151 Physics II S1/S2 (4)	
<i>or</i>	
PHY 131 University Physics II: Electricity and Magnetism S1/S2 ² (3)	
PHY 132 University Physics Laboratory II S1/S2 (1)	
PHY 252 Physics III S1/S2 ²	4
Approved upper division electives	4
Total	24

- Both AST 113 and 321 must be taken to secure S1 or S2 credit.

- Both AST 114 and 322 must be taken to secure S1 or S2 credit.

- ¹ Both PHY 121 and 122 must be taken to secure S1 or S2 credit.

- ² Both PHY 131 and 132 must be taken to secure S1 or S2 credit.

Electives are chosen with the approval of an astronomy advisor from upper division courses in physics and astronomy.

MINOR IN PHYSICS

The minor in Physics consists of a minimum of 29 semester hours. Required courses are as follows:

Choose between the course combinations below	4
PHY 150 Physics I <i>SI/S2</i> (4)	
<i>or</i>	
PHY 121 University Physics I: Mechanics <i>SI/S2</i> ¹	3
PHY 122 University Physics Laboratory I <i>SI/S2</i> ¹	1
Choose between the course combinations below	4
PHY 151 Physics II <i>SI/S2</i> (4)	
<i>or</i>	
PHY 131 University Physics II: Electricity and Magnetism <i>SI/S2</i> ³	3
PHY 132 University Physics Laboratory II <i>SI/S2</i> ² (1)	1
PHY 201 Mathematical Methods in Physics I	3
PHY 252 Physics III <i>SI/S2</i>	4
PHY 302 Mathematical Methods in Physics II	2
PHY 310 Classical Particles, Fields, and Matter I	3
PHY 311 Classical Particles, Fields, and Matter II	3
PHY 314 Quantum Physics I	3
Approved electives	3
Total	29

- ¹ Both PHY 121 and 122 must be taken to secure S1 or S2 credit.
- ² Both PHY 131 and 132 must be taken to secure S1 or S2 credit.

Electives are chosen with the approval of the physics advisor from upper division courses in physics and astronomy.

SECONDARY EDUCATION—B.A.E.

Physics. Two options are available for physics as the major teaching field

Option One. The major teaching field consists of 42 semester hours. Required courses are as follows:

Choose between the course combinations below	4
PHY 150 Physics I ¹ <i>SI/S2</i> (4)	
<i>or</i>	
PHY 121 University Physics I: Mechanics <i>SI/S2</i> ² (3)	3
PHY 122 University Physics Laboratory I <i>SI/S2</i> ² (1)	1
Choose between the course combinations below	4
PHY 151 Physics II ¹ <i>SI/S2</i> (4)	
<i>or</i>	
PHY 131 University Physics II: Electricity and Magnetism <i>SI/S2</i> ³ (3)	3
PHY 132 University Physics Laboratory II <i>SI/S2</i> ¹ (1)	1
PHY 201 Mathematical Methods in Physics I	3
PHY 252 Physics III ¹ <i>SI/S2</i>	4
PHY 302 Mathematical Methods in Physics II	2
PHY 310 Classical Particles, Fields, and Matter I	3
PHY 311 Classical Particles, Fields, and Matter II	3
PHY 333 Electronic Circuits and Measurements	3
PHY 361 Introductory Modern Physics	3
or PHY 314 Quantum Physics I (3)	3

PHY 480 Methods of Teaching Physics	3
or PHY 484 Internship: Physics Teaching (3)	3
Approved electives	10
Total	42

- PHY 111, 112, 113, and 114 or equivalents may be substituted for PHY 150, 151, and 252 on approval of the advisor
- ² Both PHY 121 and 122 must be taken to secure S1 or S2 credit
- ³ Both PHY 131 and 132 must be taken to secure S1 or S2 credit.

Electives are chosen in physics or other closely related fields, subject to the approval of the advisor.

Option Two. Option two consists of 32 semester hours in physics and an additional 30 semester hours in chemistry (see "Minor in Chemistry and Biochemistry," page 348) or mathematics (see "Minor in Mathematics," page 395). The physics portion of this program requires the following courses:

Choose between the course combinations below	4
PHY 150 Physics I <i>SI/S2</i> (4)	
<i>or</i>	
PHY 121 University Physics I: Mechanics <i>SI/S2</i> ² (3)	3
PHY 122 University Physics Laboratory I <i>SI/S2</i> ² (1)	1
Choose between the course combinations below	4
PHY 151 Physics II <i>SI/S2</i> (4)	
<i>or</i>	
PHY 131 University Physics II: Electricity and Magnetism <i>SI/S2</i> ³ (3)	3
PHY 132 University Physics Laboratory II <i>SI/S2</i> ³ (1)	1
PHY 201 Mathematical Methods in Physics I ¹	3
PHY 252 Physics III ¹ <i>SI/S2</i>	4
PHY 302 Mathematical Methods in Physics II	2
PHY 310 Classical Particles, Fields, and Matter I	3
PHY 311 Classical Particles, Fields, and Matter II	3
PHY 333 Electronic Circuits and Measurements	3
PHY 361 Introductory Modern Physics	3
or PHY 314 Quantum Physics I (3)	3
PHY 480 Methods of Teaching Physics ⁵	3
or PHY 484 Internship: Physics Teaching (3)	3
Total	32

- PHY 111, 112, 113, and 114 or equivalents may be substituted for PHY 150, 151, and 252 on approval of the advisor
- ² Both PHY 121 and 122 must be taken to secure S1 or S2 credit
- ³ Both PHY 131 and 132 must be taken to secure S1 or S2 credit.
- ⁴ Physics/Math option: MAT 274 plus MAT 342 may be substituted for PHY 201.
- ⁵ Physics Chemistry: CHM 480 may be substituted for PHY 480.

Minor Teaching Field. The minor teaching field consists of 24 semester hours. Required courses are as follows:

Choose between the course combinations below	4
PHY 150 Physics I <i>SI/S2</i> (4)	
<i>or</i>	
PHY 121 University Physics I: Mechanics <i>SI/S2</i> ² (3)	3
PHY 122 University Physics Laboratory I <i>SI/S2</i> ² (1)	1
Choose between the course combinations below	4
PHY 151 Physics II <i>SI/S2</i> (4)	

	or	
PHY 131	University Physics II: Electricity and Magnetism S1/S2 ³	3
PHY 132	University Physics Laboratory II S1/S2	1
PHY 201	Mathematical Methods in Physics I	3
PHY 252	Physics III ¹ S1/S2	4
PHY 314	Quantum Physics I	3
	or PHY 361 Introductory Modern Physics	3
PHY 480	Methods of Teaching Physics	3
	or PHY 484 Internship: Physics Teaching	3
	Approved elective	3
Total		24

¹ PHY 111, 112, 113, and 114 may be substituted for PHY 150, 151, and 252, or equivalents, on approval of the advisor.

² Both PHY 121 and 122 must be taken to secure S1 or S2 credit.

³ Both PHY 131 and 132 must be taken to secure S1 or S2 credit.

The remaining hours are selected from upper division courses in physics or astronomy (including AST 113 and 114), subject to approval of the advisor.

GRADUATE PROGRAMS

The faculty in the Department of Physics and Astronomy offer programs leading to the degrees of Master of Natural Science, M.S., and Ph.D. Consult the *Graduate Catalog* for requirements.

ASTRONOMY (AST)

AST 111 Introduction to Solar Systems Astronomy. (3) F History, properties of light; instruments; study of solar system and nearby stars. For non-science majors. Opt on lab (AST 113). *General Studies S1 S2 (if credit a so earned in AST 113).*

AST 112 Introduction to Stars, Galaxies, and Cosmology. (3) S Structure and evolution of stars; star clusters; galaxies; cosmology. For non-science majors. Opt on lab (AST 114). *General Studies S1 S2 (if credit a so earned in AST 114).*

AST 113 Astronomy Laboratory I. (1) F Astronomical observations and experiments designed to help the student become familiar with the sky, telescopes and astronomical measurements. 2.5 hours lab. Pre- or corequisites: AST 111 (or 321) a working knowledge of high school algebra and geometry. *General Studies S1 S2 (if credit a so earned in AST 111 or 321).*

AST 114 Astronomy Laboratory II. (1) S Similar to AST 113, but material chosen to supplement AST 112 and 322. 2.5 hours lab. Pre- or corequisites: AST 112 (or 322) a working knowledge of high school algebra and geometry. *General Studies S1 S2 (if credit a so earned in AST 112 or 322).*

AST 321 Introduction to Planetary and Stellar Astrophysics. (3) F Physics laws, celestial mechanics, properties of planets, the sun and other stars; formation and evolution of stars and planetary systems. Prerequisites: MAT 270 (or 290) PHY 150. *General Studies S1 S2 (if credit also earned in AST 113).*

AST 322 Introduction to Galactic and Extragalactic Astrophysics. (3) S Evolved stars; introduction to relativistic galaxies and interstellar matter, structure and dynamics of galaxies; cosmology. Prerequisite: AST 321 or instructor approval. *General Studies S1 S2 (if credit also earned in AST 114).*

AST 421 Astrophysics I.

(3) F Selected astrophysical topics including stellar evolution, star formation, interstellar medium, galactic structure, extragalactic astronomy, high energy astrophysics and cosmology. Prerequisites: AST 321, 322. PHY 311, 314.

AST 422 Astrophysics II.

(3) S Same range of astrophysical topics as for AST 421 but different specific topics will be emphasized in a given year. Prerequisites: AST 321, 322. PHY 311, 314.

AST 499 Individualized Instruction.

PHYSICAL SCIENCES (PHS)

PHS 110 Fundamentals of Physical Science.

(4) F S One semester survey of the principles of physics and chemistry. Understanding of elementary algebra is presumed. 3 hours lecture, 2 hours lab. *General Studies S1 S2.*

PHS 208 Patterns in Nature.

(4) F S Project-oriented science course with computer training to develop critical thinking and technical skills for student-oriented science lessons. K-12 Lecture lab. Co-requisite: STE 208. Credit is awarded only for PHS 208 or STE 208. Prerequisite: college-level science course or instructor approval. *General Studies S1 S2.*

PHYSICS (PHY)

PHY 101 Introduction to Physics.

(4) F S Emphasizes applications of physics to the modern world. Understanding of elementary algebra is presumed. 3 hours lecture, 1 recitation. 2 hours lab. *General Studies S1 S2.*

PHY 105 Basic Physics.

(3) F One-semester survey of the principles of physics. Primarily for students who intend to take PHY 121, 131 but have not taken high school physics. 3 hours lecture, 1 recitation. Prerequisites: algebra and trigonometry.

PHY 111 General Physics.

(3) F S SS Noncalculus treatment of the principles of physics for non-physics majors. Students whose curriculum requires a laboratory course must also register for PHY 113. 3 hours lecture, 1 recitation. Prerequisite: trigonometry. *General Studies S1 S2 (if credit a so earned in PHY 113).*

PHY 112 General Physics.

(3) F S SS Continuation of PHY 111. Students whose curriculum requires a laboratory course must also register for PHY 114. Prerequisite: PHY 111. *General Studies S1 S2 (if credit also earned in PHY 114).*

PHY 113 General Physics Laboratory.

(1) F S SS Elementary experiments in physics. 2 hours lab. Outside preparation for experiments and report writing are required. May be taken concurrently with or subsequent to PHY 111. *General Studies S1 S2 (if credit a so earned in PHY 111).*

PHY 114 General Physics Laboratory.

(1) F S SS See PHY 113. May be taken concurrently with or subsequent to PHY 112. *General Studies S1 S2 (if credit a so earned in PHY 112).*

PHY 121 University Physics I: Mechanics.

(3) F S SS Kinematics, Newton's laws, work, energy, momentum, conservation laws, dynamics of particles, solids and fluids. 3 hours lecture, 1 hour recitation. Prerequisite: MAT 270 or 290 or instructor approval. *General Studies S1 S2 (if credit a so earned in PHY 122).*

PHY 122 University Physics Laboratory I.

(1) F S SS Lab accompanying PHY 121. Pre- or corequisite: PHY 121. *General Studies S1 S2 (if credit a so earned in PHY 121).*

PHY 131 University Physics II: Electricity and Magnetism.

(3) F S SS Electric charge and current; electric and magnetic fields in vacuum and in materials and induction. AC circuits; displacement current and electromagnetic waves. 3 hours lecture, 1 hour recitation. Prerequisites: MAT 271 (or 291 or instructor approval), PHY 121. Corequisite: MAT 272 or instructor approval. *General Studies S1 S2 (if credit a so earned in PHY 132).*

PHY 132 University Physics Laboratory II.

(1) S SS Lab accompanying PHY 131. Pre- or corequisite: PHY 131. *General Studies S1 S2 (if credit also earned in PHY 131).*

NOTE: For the General Studies requirement courses, and codes such as L1, N3, C, and H) see General Studies' page 85. For graduate requirements see University Graduate on Requirements" page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses" page 58.

PHY 150 Physics I. 4 S

Introductory physics for majors. Kinematics Newton's Laws basic forces energy, momentum, special relativity. 3 hours lecture 3 hours lab. Prerequisites: MAT 270 or 290 or equivalent. *General Studies S1 S2*

PHY 151 Physics II. 4) F

Continuation of PHY 150. Electromagnetic fields Ampere's and Faraday's Laws Maxwell's equations, basic circuit elements. 3 hours lecture, 3 hours lab. Prerequisites: MAT 271 (or 291 or equivalent) PHY 121 122 or PHY 150. *General Studies S1 S2*

PHY 190 Seminar: Physics as a Curriculum and a Profession. (1 F S)

Seminar for new Physics majors. Instruction and information on curriculum, departmental functions and professional preparation. Weekly meetings and excursions. Pass/fail grading.

PHY 201 Mathematical Methods in Physics I. 3 S

Differential equations near equations, vectors matrices Fourier series and numerical methods. 2 hours lecture, 2 hours lab. Prerequisite: MAT 272 or equivalent. Corequisite: PHY 252

PHY 241 University Physics III. (3) F S

Thermodynamics kinetic theory, physics and wave optics relativity photons, matter waves atomic physics. 3 hours lecture 1 hour recitation. Prerequisites: PHY 131; nonmajor

PHY 252 Physics III. 4 S

Continuation of PHY 151. Wave physics oscillations harmonic systems, physical optics thermodynamics, kinetic theory. 3 hours lecture, 3 hours lab. Prerequisites: MAT 272 or equivalent, PHY 131 and 132 (or PHY 151 or equivalent). Corequisite: PHY 201. *General Studies S1 S2*

PHY 302 Mathematical Methods in Physics II. (2 F)

Continuation of PHY 201. Vector calculus, complex variables partial differential equations special functions numerical methods. 1 hour lecture 3 hours lab. Prerequisite: PHY 201 or equivalent

PHY 310 Classical Particles, Fields, and Matter I. 3 F

Particle kinematics mechanics conservation laws, particle motion in force fields dynamics of two body systems, reference frames rigid body motion, relativity. Corequisites: PHY 302 and 314 or instructor approval.

PHY 311 Classical Particles, Fields, and Matter II. 3 S

Electrostatic and gravitational fields Poisson and Laplace equations dielectric materials, magnetic fields and material magnetism induction Faraday's Law. Prerequisites: PHY 302, 310. Corequisite: PHY 315 or instructor approval.

PHY 314 Quantum Physics I. 3 F

Photons modes of the atom wave properties of matter introduction to wave mechanics 1 dimensional systems in quantum mechanics. Prerequisites: PHY 201 and 252 or equivalents. Corequisites: PHY 302 and 310 or instructor approval.

PHY 315 Quantum Physics II. 3) S

General principles of quantum mechanics 3 dimensional problems, approximation methods, spin introduction to many particle systems. Prerequisites: PHY 302 310 314. Corequisite: PHY 311 or instructor approval.

PHY 333 Electronic Circuits and Measurements. 3 F S

Basic principles of electronic circuit analysis and measurement techniques using modern instrumentation and computer aided analysis of data. 1 hour lecture, 3 hours lab. Equivalent effort outside of the lab is required. Corequisite: PHY 201 or instructor approval.

PHY 334 Advanced Laboratory I. 2 S

Selected experiments from contemporary physics. Emphasis on modern instrumentation computer-assisted acquisition and analysis of data and report form writing. Lecture/lab. Prerequisites: PHY 310 314 333

PHY 361 Introductory Modern Physics. (3 F S)

Special relativity and introductory quantum theory with applications drawn from atomic nuclear and solid-state physics. 3 hours lecture 1 recitation. Prerequisite: PHY 131

PHY 412 Classical Particles, Fields, and Matter III. (3) F

Electromagnetic fields of moving charges Maxwell's equations, harmonic phenomena oscillations waves electromagnetic radiation, covariant electromagnetism, introduction to general relativity. Prerequisites: PHY 311 333. Corequisite: PHY 416 or instructor approval.

PHY 416 Quantum Physics III. (3) F

Introduction to the quantum theory of atoms molecules solids and nuclei Dirac's equation. Prerequisites: PHY 311, 315. Corequisite: PHY 412 or instructor approval.

PHY 420 Research Paper. (1) F, S

Scientific report writing. Combines a paper based on library or laboratory research or both. Taken in conjunction with other courses as approved. Conference. Prerequisite: instructor approval. *General Studies L2*.

PHY 441 Statistical and Thermal Physics I. (3) F

Statistical and experimental basis of heat, temperature and entropy. Mechanics and statistical basis of the laws of thermodynamics. Applications of macroscopic thermodynamics. Phase equilibrium. Prerequisites: PHY 311, 315.

PHY 442 Statistical and Thermal Physics II. (3) S

Principles and applications of statistical mechanics. Quantum statistics of ideal gases and simple solids. Equilibrium of phases and chemical species. Transport theory Irreversible processes and fluctuation. Prerequisite: PHY 441.

PHY 452 Physical Optics. 3 F

Principles of reflection, refraction diffraction. Additional topics from contemporary optics may include Fourier transform spectroscopy near systems theory, holography. 2 hours lecture 2 hours lab. Prerequisite: PHY 302 311 315. Corequisite: PHY 412

PHY 462 Nuclear and Particle Physics. (3) S

Static properties of nucleons and induced radioactivity nuclear reactions nuclear models and energy levels mesons and hyperons, and interaction of photons and electrons with matter. Prerequisites: PHY 311, 315

PHY 465 Advanced Laboratory II. (2) F S

Continuation of PHY 334. Students are encouraged to substitute laboratory research project in consultation with faculty sponsor. Prerequisite: PHY 334

PHY 466 Advanced Laboratory III. (1 3) F S

Continuation of PHY 465. Prerequisite: PHY 465.

PHY 480 Methods of Teaching Physics. (3) S

Evaluation of various approaches to the teaching of high school physics. Preparation of demonstrations and experiments. Organization of a laboratory. Designed for secondary school physics teachers. Prerequisite: instructor approval.

PHY 481 Solid-State Physics. 3 S

Structure elastic properties and dynamics of crystals electron motions in crystals under applied fields. Prerequisites: PHY 311 315.

PHY 484 Internship: Physics Teaching. 1-4 F S SS

Preparation for high school physics teaching. Student works closely with a faculty member in the elementary physics program. May be repeated for a total of 6 semester hours. Prerequisite: instructor approval.

PHY 495 Project Research. (1 3) F, S

Supervised project in physics or astrophysics. May be repeated for credit. Prerequisite: instructor approval.

PHY 501 Methods of Theoretical Physics. (3) F, S

Provides mathematical foundations for graduate students in basic and applied physics. Complex variables, vector spaces, operators, matrices, ordinary differential equations integral equations and transforms, and special functions. May include additional topics.

PHY 502 Methods of Theoretical Physics. (3) F, S

Continuation of PHY 501. Prerequisite: PHY 501.

PHY 521 Classical Mechanics. 3 F

Variable principles Lagrange's and Hamilton's equations rigid body motion canonical transformations Hamilton-Jacobi theory.

PHY 523 Relativity. 3) N

Special and general theories of relativity. Prerequisite: PHY 532 or instructor approval.

NOTE: For the General Studies requirement, courses and codes such as L1 N3 C and H see General Studies page 85. For graduation requirements see University Graduation Requirements, page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see Catalog of Courses page 58.

PHY 531 Advanced Electricity and Magnetism. (3) F

Electrostatics and magnetostatics; potential theory and theory of constitutive relations; Maxwell's equations; the wave equation, plane electromagnetic waves, cavities, and wave guides.

PHY 532 Electrodynamics. (3) S

Special theory of relativity, covariant formulation of electromagnetic interactions; inhomogeneous wave equations, Lienard-Wiechert potentials, and radiation fields; interactions of charged particles and electromagnetic waves, scattering, dispersion. Prerequisites: PHY 412 and 531 or instructor approval.

PHY 541 Statistical Physics. (3) F

Probability theory and principles of statistical inference; evaluating experimental data; foundations of statistical mechanics; general laws of thermodynamics from microscopic theories; calculation of specific properties of bulk matter.

PHY 551 X-ray and Electron Diffraction. (3) S

Fresnel and Fraunhofer diffraction in integral formulation; diffraction of X-rays and neutrons by crystal lattices; structures of solids, including crystal structure analysis; theory and techniques of electron microscopy/diffraction of crystalline/noncrystalline specimens. Prerequisite: PHY 481 or instructor approval.

PHY 561 Nuclear Physics. (3) F, S

Two nucleon interaction, Clebsch-Gordon coefficients, internucleon forces, meson theory and high energy scattering, nuclear binding energy, nuclear models, transition probability estimates, nuclear reactions, and beta decay. Prerequisite: PHY 576 or instructor approval.

PHY 562 Nuclear Physics. (3) F, S

Continuation of PHY 561. Prerequisite: PHY 561 or instructor approval.

PHY 568 Elementary Particle Physics. (3) N

Classification of particles; phenomenology of strong, electromagnetic and weak interactions, cross sections, and decay rates; isotopic spin and higher symmetries; structure of reaction amplitudes. Prerequisite: PHY 577.

PHY 569 Elementary Particle Theory. (3) N

Continuation of PHY 568. Prerequisite: PHY 568.

PHY 576 Quantum Theory. (3) F, S

Abstract approach to quantum mechanics in Hilbert space; observables and their corresponding operators, eigenstates, and eigenvalues; quantum dynamics; approximation methods; systems of identical particles; angular momentum and group representation theory; collision processes; relativistic quantum theory. Prerequisite: PHY 521.

PHY 577 Quantum Theory. (3) F, S

Continuation of PHY 576. Prerequisite: PHY 576.

PHY 578 Relativistic Quantum Theory. (3) F, S

Relativistic 1-particle equations, Klein-Gordon equation, Dirac equation, 2d quantization, theory of scattering, S-matrix, Feynman diagrams, quantum electrodynamics, and renormalization procedures. Prerequisite: PHY 577.

PHY 579 Relativistic Quantum Theory. (3) F, S

Continuation of PHY 578. Prerequisite: PHY 578.

PHY 581 Solid-State Physics. (3) F

Quantum theory of solids, including phonons, lattice specific heats, band structure models, Fermi surfaces, thermal expansion, plasmons, electron-phonon interactions, and scattering by lattice defects. Pre-corequisite: PHY 576.

PHY 582 Solid-State Physics. (3) S

Elements of transport theory, thermal conduction, electronic conduction in metals, mobility in semiconductors, Hall effect, magnetoresistance, and selected topics of current research. Prerequisite: PHY 581.

PHY 587 Quantum Optics. (3) F, S

Quantization of the electromagnetic field. Quantum theory of coherence, photon counting, photon states, lasers, density operators, and atomic Raman scattering. Prerequisite: PHY 576.

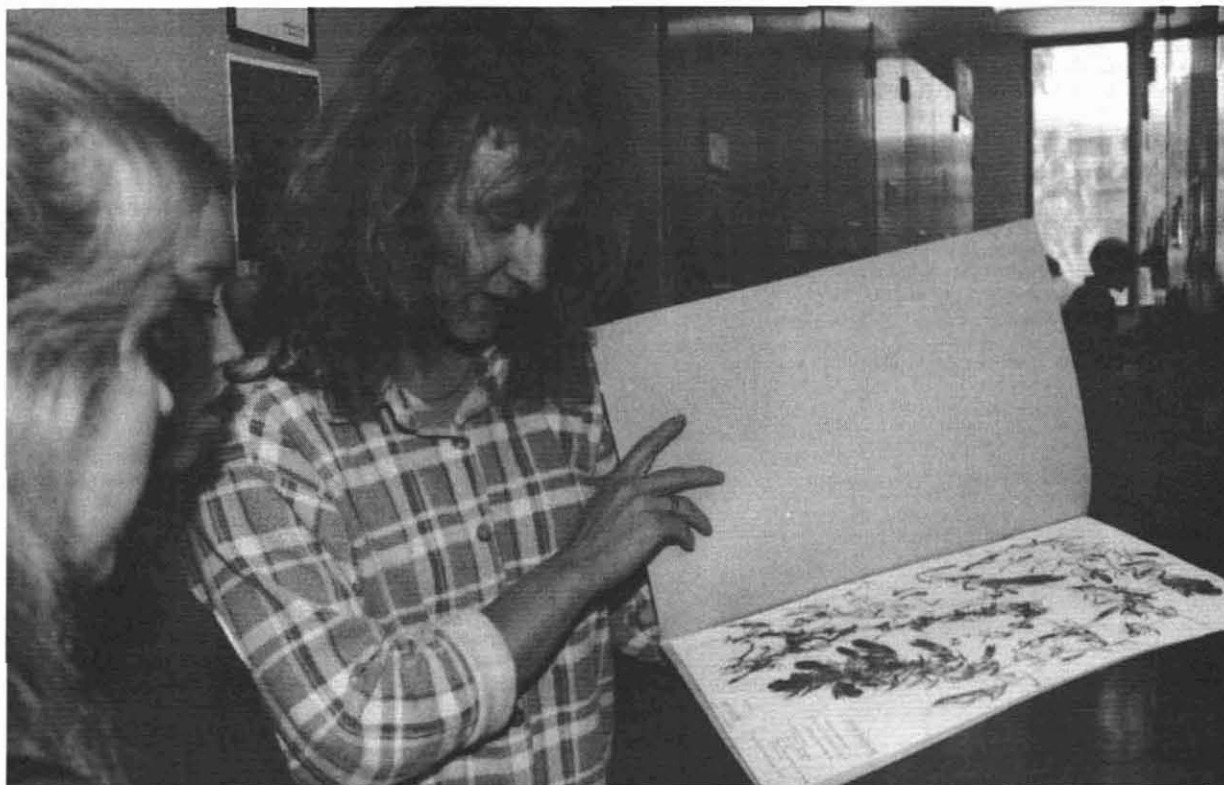
PHY 588 Quantum Optics. (3) F, S

Continuation of PHY 587. Prerequisite: PHY 587.

PHY 598 ST: Special Topics. (1-4) F, S

Continuation of PHY 587. Prerequisite: PHY 587.

(a) Quantum Mechanics (3) S



Steffi Ickert-Bond, a graduate student in the Department of Plant Biology, shows students one of the more than 220,000 vascular plant specimens housed in the Department of Plant Biology's herbarium.

Tim Trumble photo

Department of Plant Biology

J. Kenneth Hooper
Chair
 (LS E218) 480/965-3414
 lsvl.la.asu.edu/plantbiology

PROFESSORS

BACKHAUS, HOOBER KLOPATEK, NASH, PINKAVA,
 SOMMERFELD TRELEASE, VERMAAS

ASSOCIATE PROFESSORS

CLARK, DAY, FRASCH, MARTIN, PIGG, ROBERSON,
 STROMBERG, STUTZ, SZAREK, TOWILL, WEBBER

ASSISTANT PROFESSOR

POGSON

ACADEMIC PROFESSIONALS

BINGHAM, LANDRUM, LOBRUTTO, SHARP

PLANT BIOLOGY—B.S.

The Department of Plant Biology provides four curricular options to meet the needs of students whose interests are in rapidly expanding areas within the life sciences. Students may choose the general program option which allows the opportunity to develop strength in one area or discipline. Others may choose to design a more specific, but interdisciplinary program in one of the following three optional concentrations: environmental science and ecology, molecular biosciences/biotechnology, and urban horticulture.

Each concentration promotes interaction between diverse groups and captures the growing interdisciplinary nature of scientific investigations. When one of these options is chosen, the title will appear on transcripts and other university documents.

The four curricular options prepare students for careers in technical, industrial, and educational fields as well as professional degree programs in medicine or research and post graduate education in the life sciences.

General Program

The B.S. degree in Plant Biology consists of 54 semester hours. The required major courses are as follows:

BIO 181	General Biology <i>S1/S2</i>	4
BIO 182	General Biology <i>S2</i>	4
BIO 320	Fundamentals of Ecology	3
	or PLB 350 Applied Genetics (4)	
BIO 353	Cell Biology	3
PLB 306	Plant Anatomy	4
PLB 308	Plant Physiology	4
PLB 484	Internship	3
	or PLB 499 Individualized Instruction (3)	
Total		25–26

Additional life or physical science elective courses, totaling 11–16 semester hours, are also required.

Required supplemental courses in chemistry are as follows:

CHM 113	General Chemistry <i>S1/S2</i>	4
CHM 115	General Chemistry with Qualitative Analysis <i>S1/S2</i>	5
Choose between the organic chemistry course combinations below 4 or 8		
CHM 231	Elementary Organic Chemistry <i>S1/S2*</i>	(3)
CHM 235	Elementary Organic Chemistry Laboratory <i>S1/S2*</i>	(1)
<i>or</i> -----		
CHM 331	General Organic Chemistry	(3)
CHM 332	General Organic Chemistry	(3)
CHM 335	General Organic Chemistry Laboratory	(1)
CHM 336	General Organic Chemistry Laboratory	(1)

Total 13 or 17

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

Courses meeting the university numeracy requirement are as follows:

MAT 210	Brief Calculus <i>N1</i>	3
Choose one of the three courses below 3 or 4		
BIO 415	Biometry <i>N2</i>	(4)
PLB 430	Statistical Analyses in Environmental Science	(3)
PLB 432	Computer Applications in Biology <i>N3</i>	(3)

Special Concentration Programs

Three special concentration programs are optional. Students who wish to pursue the general program in Plant Biology are not obligated to choose one of these specific programs. Each special concentration program is expected to be interdisciplinary and contain course work outside both the department and the College of Liberal Arts and Sciences. Each concentration includes hands on technical training.

Environmental Science and Ecology. The B.S. degree in Plant Biology concentrating in environmental science and ecology consists of 60 semester hours.

The required major courses are as follows:

BIO 320	Fundamentals of Ecology	3
Choose between the geology course combinations below . . . 4		
GLG 101	Introduction to Geology I (Physical) <i>S1/S2</i> ¹	(3)
GLG 103	Introduction to Geology I Laboratory <i>S1/S2</i> ¹	(1)
<i>or</i> -----		
GLG 110	Environmental Geology <i>S2</i> ²	(3)
GLG 111	Environmental Geology Laboratory <i>S2</i> ²	(1)
GLG 362	Geomorphology	3
	or GLG 470 Hydrogeology	(3)
PLB 310	The Flora of Arizona	4
PLB 322	Environmental Science (Major)	3
PLB 420	Plant Ecology, Organisms and Populations	3
	or PLB 421 Plant Ecology: Communities and Ecosystems	(3)

PLB 484 Internship	3
or PLB 499 Individualized Instruction (3)	—
Total	23

¹ Both GLG 101 and 103 must be taken to secure S1 or S2 credit.

² Both GLG 110 and 111 must be taken to secure S2 credit

Additional life or physical science elective courses, totaling 16 hours, are also required.

Required supplemental courses in biology and chemistry are as follows:

BIO 181 General Biology <i>S1/S2</i>	4
BIO 182 General Biology <i>S2</i>	4
CHM 113 General Chemistry <i>S1/S2</i>	4
CHM 115 General Chemistry with Qualitative Analysis <i>S1/S2</i>	5
CHM 231 Elementary Organic Chemistry <i>S1/S2*</i>	3
CHM 235 Elementary Organic Chemistry Laboratory <i>S1/S2*</i>	1
Total	21

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

Courses meeting the university numeracy requirement are as follows:

MAT 210 Brief Calculus <i>N1</i>	3
Choose one of the courses below	3
PLB 430 Statistical Analyses in Environmental Science (3)	
PLB 432 Computer Applications in Biology <i>N3</i> (3)	

Molecular Biosciences/Biotechnology. The B.S. degree in Plant Biology concentrating in molecular biosciences/biotechnology consists of 60 semester hours.

The required major courses are as follows:

BIO 353 Cell Biology	3
PLB 340 Plant Cell Physiology	4
PLB 350 Applied Genetics	4
PLB 444 Plant Growth and Development	3
PLB 484 Internship	3
or PLB 499 Individualized Instruction (3)	
Total	17

Additional life or physical science elective courses, totaling 11-14 hours, are also required.

Required supplemental courses in biology, chemistry, and physics are as follows:

BIO 181 General Biology <i>S1/S2</i>	4
BIO 182 General Biology <i>S1/S2</i>	4
CHM 113 General Chemistry <i>S1/S2</i>	4
CHM 115 General Chemistry with Qualitative Analysis <i>S1/S2</i>	5
CHM 231 Elementary Organic Chemistry <i>S1/S2</i> ¹	3
CHM 235 Elementary Organic Chemistry Laboratory <i>S1/S2</i> ¹	1
Choose between the course combinations below	4 or 8
CHM 361 Principles of Biochemistry (3)	
CHM 367 Elementary Biochemistry Laboratory (1)	
<i>or</i>	

CHM 461 General Biochemistry (3)	
CHM 462 General Biochemistry (3)	
CHM 467 General Biochemistry Laboratory <i>L2</i> - (2)	
PHY 121 University Physics I: Mechanics <i>S1/S2</i>	3
PHY 122 University Physics Laboratory I <i>S1/S2</i>	1
Total	29 or 33

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

² Both CHM 464 and 467 must be taken to secure L2 credit.

Courses meeting the university numeracy requirement are as follows:

MAT 210 Brief Calculus <i>N1</i>	3
Choose one of the courses below	3-4
BIO 406 Computer Applications in Biology <i>N3</i> (3)	
BIO 415 Biometry <i>N2</i> (4)	

Urban Horticulture. The B.S. degree in Plant Biology concentrating in urban horticulture consists of 54 semester hours. The required major courses are as follows:

PLB 260 Plants in Cities Introduction to Urban Horticulture <i>S2</i>	4
PLB 362 Landscape Plants I	3
PLB 364 Urban Forestry	3
PLB 370 Landscape Practices	3
PLB 414 Plant Pathology <i>L2</i>	3
PLB 484 Internship	3
PLB 498 PS: Pro-Seminar in Urban Horticulture	1
Choose one of the courses below	3-4
BIO 320 Fundamentals of Ecology (3)	
PLB 306 Plant Anatomy (4)	
PLB 308 Plant Physiology (4)	
Choose one of the courses below	3
PLB 366 Interiorscape (3)	
PLB 372 Turf Management (3)	
PLB 472 Greenhouse/Nursery Management (3)	
Total	26-27

Additional elective courses from other disciplines, totaling seven to eight hours, are also required.

Required supplemental courses in biology, chemistry, and soils are as follows:

BIO 181 General Biology <i>S1/S2</i>	4
BIO 182 General Biology <i>S2</i>	4
CHM 101 Introductory Chemistry <i>S1/S2</i>	4
CHM 231 Elementary Organic Chemistry <i>S1/S2*</i>	3
CHM 235 Elementary Organic Chemistry Laboratory <i>S1/S2*</i>	1
Choose between the course combinations below	4
ERS 130 Soils and Environmental Quality <i>S1/S2</i> (4)	
<i>or</i>	
ERS 225 Soils (3)	
ERS 226 Soils Laboratory (1)	
Total	20

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

NOTE: For the General Studies requirement, courses, and codes (such as L1, N3, C, and H), see "General Studies," page 85. For graduation requirements, see "University Graduation Requirements," page 81. For an explanation of additional optional courses offered but not listed in this catalog, see "Classification of Courses," page 58.

Courses meeting the university numeracy requirement are as follows:

MAT 210 Brief Calculus M1	3
Choose one of the courses below	3-4
BIO 450 Biology N2	4
PLB 430 Statistical Analyses in Environmental Science	3
PLB 432 Computer Applications in Biology N3	3
Total	6-7

PLANT BIOLOGY MINOR

The minor consists of a minimum of 24 semester hours. Required courses are as follows:

BIO 181 General Biology S1/S2	4
BIO 182 General Biology S2	4
Choose one of the courses below	4
PLB 306 Plant Anatomy	4
PLB 308 Plant Physiology	4
PLB 310 The Flora of Arizona	4
Total	12

The remaining 12 hours are selected by the student through consultation with an academic advisor. Eight of these 12 hours must be in upper division courses in the life sciences or other advisor approved areas.

The minor can be designed after one of the four curricular options offered by the department. Courses not available for credit for majors in the life sciences cannot be used for the minor. This minor is not available to students in the life sciences.

GRADUATE PROGRAMS

The faculty in the Department of Plant Biology offer programs leading to the degrees of M.S. and Ph.D. The faculty also participate in programs leading to the Master of Natural Science degree when one of the concentrations is plant biology. Select faculty collaborate with the faculty in the Departments of Biology, Chemistry and Biochemistry, and Microbiology in offering programs leading to the M.S. and Ph.D. degrees in Molecular and Cellular Biology. Other select faculty collaborate in the interdisciplinary concentration in ecology.

PLANT BIOLOGY (PLB)

- PLB 108 Concepts in Plant Biology.** 4 F, S SS
Introduction to concepts of plant biology that are of human relevance using commercially important edible and medicinal plants as examples. Not for majors in the biological sciences. 3 hours lecture 3 hours lab. *General Studies S1 S2*
- PLB 300 Comparative Plant Diversity.** 4 F
Survey of major plant groups and other photosynthetic organisms. Emphasis on comparative data analysis, evolutionary inference, and phylogenetic methods. 3 hours lecture 3 hours lab. Prerequisite: BIO 182 or equivalent. *General Studies L2/S2*
- PLB 302 Plants and Civilization.** 3) F
Plants and plant products used by people throughout the world. Culture, evolution, and uses in modern life: beverages, fibers, foods, medicinals, and perfumes. Prerequisite: BIO 182 or PLB 108 or equivalent.
- PLB 304 Biology of Algae and Fungi.** 3 S
Ecology, economics, and evolutionary diversity of the algae and fungi. Traditional and modern biotechnology uses. 2 hours lecture 3 hours lab. Prerequisite: BIO 182 or equivalent.

PLB 305 Desert Annuals and Cacti.

(3) F
Adaptive biology of select plants. Analysis of diverse traits permitting survival in deserts: reproduction, structure, and physiology. Prerequisite: BIO 182 or equivalent.

PLB 306 Plant Anatomy.

(4) F
Development and mature structure of tissues of vascular plants: patterns and modifications of the leaf, stem, root, and the flower. 3 hours lecture 3 hours lab. Prerequisite: BIO 182 or equivalent.

PLB 308 Plant Physiology.

(4) S
Concepts of plant function: carbon metabolism, energy acquisition, regulation of growth and development, stress responses, and water and nutrient uptake. Prerequisites: BIO 182 (or equivalent), CHM 101 (or 115 or 231).

PLB 310 The Flora of Arizona.

(4) S
Principles of taxonomy; identification of Arizona plants. 2 hours lecture 6 hours lab. Prerequisite: BIO 182 or equivalent or instructor approval.

PLB 400 Lichenology.

(3) S 2001
Chemistry, ecology, physiology, and taxonomy of lichens. 2 hours lecture 3 hours lab. Prerequisite: BIO 182 or equivalent.

PLB 402 Mycology.

(3) S
Fungal morphology and systematics with an introduction to fungal ecology, ecology, economic significance, and growth and development. 2 hours lecture, 3 hours lab. Prerequisite: BIO 182 or MIC 206 or equivalent.

PLB 404 Phycology.

(4) S
The algae (both fresh water and marine forms), emphasizing field collection and identification of local representatives. Morphological, ecological, and economic aspects of the algae. 3 hours lecture 3 hours lab. Prerequisite: BIO 182 or instructor approval.

PLB 406 Vascular Plant Structure.

(4) S
Comparative form and evolutionary trends in the major groups of vascular plants. 3 hours lecture 3 hours lab. Prerequisite: PLB 300 or equivalent.

PLB 407 Plant Fossils and Evolution.

(4) S 2001
A broad survey of plant life of the past, including the structure of plant fossils, their geographic ranges, geographic distribution, and paleoenvironment. 3 hours lecture 3 hours lab or field trip. Prerequisite: BIO 182 or equivalent.

PLB 408 Pollen and Spores.

(3) N
Significance of fossil and extant pollen, spores, and other palynomorphs to ecology, evolution, stratigraphy, and systematics. 2 hours lecture 1 hour lab. Prerequisite: instructor approval.

PLB 410 Angiosperm Taxonomy.

(3) S
Principles underlying angiosperm phylogeny. 2 hours lecture, 3 hours lab. Prerequisite: PLB 310 or instructor approval.

PLB 411 Trees and Shrubs of Arizona.

(3) F
Identification of woody plants from desert, chaparral, and forest habitats in Arizona. 1 hour lecture, 3 hours lab or field trips. Prerequisite: BIO 182 or equivalent or instructor approval.

PLB 412 Cytogenetics.

(3) F
Chromosomal basis of inheritance. Cross-studied as BIO 441. Credit is allowed only for BIO 441 or PLB 412. Prerequisite: BIO 340.

PLB 413 Cytogenetics Laboratory.

(2) F
Microscopic analysis of meiosis, mitosis, and aberrant cell division. 6 hours lab. Cross-studied as BIO 442. Credit is allowed only for BIO 442 or PLB 413. Prerequisite: BIO 441 or PLB 412.

PLB 414 Plant Pathology.

(3) S
Identification and control of biotic and abiotic factors that cause common disease problems to plants. Prerequisite: BIO 182. *General Studies: L2*

PLB 416 Medical Botany.

(4) SS
Experimentation of plants affecting human health: modern- and folk usage, medicinal plants, quality control, chemical evidence, plant chemistry and ethnopharmacology. 3 hours lecture 3 hours lab. Prerequisite: BIO 182 or equivalent or instructor approval.

PLB 484 Internship.

(3) N
PLB 499 Individualized Instruction. (3) N

PLB 502 Perspectives in Plant Biology.

(3) F
Introduce major areas of research within the department with the goal of broadening knowledge to enable multidisciplinary research and communication. Prerequisite: instructor approval.

ENVIRONMENTAL SCIENCE AND ECOLOGY

- PLB 320 Environmental Science (Nonmajor).** (3) F
Environmental and biological concepts used to understand ecological systems with specific references to problems caused by humans. Cannot be used for major credit in the biological sciences. Cross listed as BIO 319. Credit is awarded only for BIO 319 or PLB 320. *General Studies G*
- PLB 322 Environmental Science (Major).** (3) F
The nature of environmental and biological interaction, historical and modern examples. Field and laboratory techniques for quantification on supporting principles. 2 hours lecture, 3 hours lab. Prerequisites: BIO 182 or GLG 101 and 103 or GLG 110 and 111
- PLB 420 Plant Ecology: Organisms and Populations.** (3) S 2001
Factors and controls on the physiological, ecological and organization of plants and plant populations using empirical and theoretical approaches. 2 hours lecture, 3 hours lab. Prerequisite: BIO 320 or PLB 322 or equivalent
- PLB 421 Plant Ecology: Communities and Ecosystems.** (3) S
Plant community organization, field sampling techniques and the structure and function of terrestrial ecosystems emphasizing the role of vegetation. 2 hours lecture, 3 hours lab. Prerequisite: BIO 320 or PLB 322 or equivalent
- PLB 422 Plant Geography.** (3) N
Plant communities of the world and their interpretation, emphasizing North American plant associations. Cross listed as GPH 422. Credit is awarded only for GPH 422 or PLB 422. Prerequisite: BIO 182 or GPH 111
- PLB 430 Statistical Analyses in Environmental Science.** (3) S 2000
ANOVAS, 1 way classification of factorials and partial hierarchy designs. Introductory multivariate statistics. Prerequisite: MAT 210 or equivalent
- PLB 432 Computer Applications in Biology.** (3) F
Computer analysis techniques in biology emphasizing data entry, management and analysis and graphic portrayal. Employs mainframe and microcomputers. 2 hours lecture, 3 hours lab. Cross listed as BIO 406. Credit is awarded only for BIO 406 or PLB 432. Prerequisites: BIO 182 and MAT 117 (or 210) or instructor approval. *General Studies: N3*
- PLB 434 Landscape Ecological Analysis and Modeling.** (3) S
Techniques, methods of landscape ecological analyses include mathematical and statistical examination and modeling of landscape ecological patterns and processes. Prerequisites: BIO 320 and 406 or PLB 432 or equivalent
- PLB 520 Plant Structural Adaptation.** (2) (3) F 2000
Adaptive traits of leaf size, unique growth form, energy transfer efficiency, stomata architecture and water use efficiency applications of stable isotopes. Prerequisite: BIO 320 or PLB 306 or 308 or equivalent
- PLB 522 Plant Photosynthetic Adaptation.** (3) F
Evolution and ecology of C4 and CAM; adaptive traits improving competitive ability in natural environments; comparative physiology of desert plants. Prerequisite: PLB 308 or instructor approval
- PLB 524 Methods in Environmental Plant Physiology.** (3) S 2001
Techniques to measure and quantify microclimate and mass transfer. Supporting principles. 2 hours lecture, 3 hours lab. Prerequisite: BIO 320 or PLB 308

MOLECULAR BIOSCIENCES/BIOTECHNOLOGY

- PLB 340 Plant Cell Physiology.** (4) S 2001
Survey of structural and biochemical aspects of plant cell function and the relationships of cell function to whole plant processes. 3 hours lecture, 3 hours lab. Prerequisites: BIO 182 or equivalent. CHM 101 (or 115 or 231)
- PLB 350 Applied Genetics.** (4) S
Introduction to molecular genetics with emphasis on application of genetics in solving biological questions and engineering organisms in biotechnology. 2 hours lecture, 6 hours lab. Prerequisite: BIO 181 or equivalent

PLB 352 Genetic Engineering and Society. (4) F
Introduction to genetic engineering with emphasis on applications: gene therapy, DNA fingerprinting, bioremediation, transgenic animals and plants. 3 hours lecture, 3 hours lab. Cross listed as BIO 343. Credit is awarded only for BIO 343 or PLB 352. Prerequisite: BIO 181 or equivalent

PLB 440 Photobiology. (3) F 2000
Principles underlying the effects of light on growth, development and behavior of plants, animals and microorganisms. Cross listed as BIO 464. Credit is awarded only for BIO 464 or PLB 440. Prerequisites: CHM 231 (or 331) 12 hours of courses in life sciences

PLB 442 Algal and Fungal Physiology. (3) N
Cellular physiology and biochemistry of algae and fungi, responses of these organisms to chemical and physical stimuli and their processes of morphogenesis. Prerequisites: BIO 182 or equivalent. CHM 231

PLB 444 Plant Growth and Development. (3) S 2001
Molecular basis of development, role of signal transduction pathways, gene regulation, control of organ formation, pattern formation and growth. Prerequisite: BIO 353 (PLB 340 recommended).

PLB 540 Plant Metabolism. (3) N
General plant metabolism and typical plant products, emphasizing biosynthesis and functions of storage products, cell wall constituents, plant acids, pigments, hormones and numerous secondary products. Prerequisite: PLB 340 or CHM 231 or instructor approval

PLB 550 Plant Molecular Biology. (2) S 2001
Biochemistry and molecular biology of plant organelles, nucleic acid targetting, plant viruses and molecular designs for plant improvements. Prerequisite: instructor approval

PLB 552 Plant Genetic Engineering. (3) S
Plant transformation, utilization of transgenic plants, transient gene expression assays and applications of plant genetic engineering. Prerequisite: instructor approval

PLB 553 Plant Genetic Engineering Laboratory. (2) S
Plant transformation, utilization of transgenic plants, transient gene expression assays and applications of plant genetic engineering. 6 hours lab. Prerequisite: instructor approval

PLB 554 Plant Biotechnology. (3) N
Asexual propagation of plants and in vitro culture of cells, organs and tissues. 2 hours lecture, 3 hours lab. Prerequisite: PLB 308 or 340 or 370

PLB 558 Molecular Mechanisms of Photosynthesis. (3) S
Structure and function of photosynthetic complexes, mechanism of energy conversion in plants, bacterial and model systems. Cross listed as CHM 568. Credit is awarded only for CHM 568 or PLB 558. Prerequisite: instructor approval

URBAN HORTICULTURE

- PLB 260 Plants in Cities: Introduction to Urban Horticulture.** (4) F
Principles and practices of horticulture emphasizing development, growth, and propagation of horticultural plants and environmental factors that affect these processes. 3 hours lecture, 3 hours lab. Prerequisite: BIO 182 or PLB 108. *General Studies S2*
- PLB 360 Southwest Home Horticulture.** (2) F, S
Multimedia course for nonmajors surveying contemporary topics in southwest home horticulture including landscaping, flower and vegetable gardening, culture, interior landscaping, and others.
- PLB 362 Landscape Plants I.** (3) F
Identification, culture, and use of amenity plants in urban landscapes. Prerequisite: PLB 260 or equivalent
- PLB 363 Landscape Plants II.** (3) S
Identification, culture, and use of amenity plants in urban gardens. Prerequisite: PLB 260 or equivalent
- PLB 364 Urban Forestry.** (3) F
The establishment, care and maintenance of ornamental trees, shrubs and vines. Prerequisite: PLB 260 or equivalent
- PLB 366 Interiorscape.** (3) F 2000
Identification, culture, and use of container grown plants for interior environments. Prerequisite: PLB 260 or instructor approval.

NOTE: For the General Studies requirement, courses and codes (such as L1, N3, C, and H), see "General Studies, page 85. For graduation requirements, see "University Graduation Requirements," page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses, page 58."

PLB 370 Landscape Practices. 3) F
Installation, irrigation and maintenance of amenity plants in urban landscape with an emphasis on integrated landscaping technologies. 2 hours lecture 3 hours lab Prerequisite: PLB 260 or equivalent

PLB 372 Turf Management. 3) N
Selection, establishment and maintenance of turf grasses for lawn and sports areas 2 hours lecture 3 hours lab Prerequisite: PLB 260 or equivalent

PLB 472 Greenhouse/Nursery Management. (3) N
Greenhouse structures, environment and nursery operation, inoculation, nutrition, and other principles relative to container-grown species Prerequisite: ERS 131 or 225 or 226

PLB 498 PS: Pro-Seminar in Urban Horticulture. 1) N

Department of Political Science

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REGENTS' PROFESSOR
MILLER

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ASSISTANT PROFESSORS

CHELMAN, MELMAN, GOLDSTEIN, NEVITT,
REDDICK, WARNER

ASSOCIATE INSTRUCTIONAL PROFESSIONAL
KEATING

POLITICAL SCIENCE—B.A.

The B.A. degree in Political Science consists of 42 semester hours, of which 30 must be in political science and 12 in related fields consisting of courses selected from the Departments of Anthropology, Chicana and Chicano Studies, Economics, Geography, History, Psychology, and Sociology, and the African American Studies and the Women's Studies programs. At least 15 hours in political science must be in upper division courses.

The following courses are required:

POS 101 Political Ideologies SB	3
POS 110 Government and Politics SB	3
or POS 310 American National Government SB 3)	
POS 150 Comparative Government SB, G	3
or POS 160 Global Politics SB, G 3)	
POS 301 Empirical Political Inquiry SB	3
POS 401 Political Statistics N2	3
Approved elective	6
Total	12

Students who major in Political Science must have a minimum GPA of 2.00 for all courses that count toward the major. Upper division courses that count toward the major must have a grade of "C" or higher; no more than one "D"

grade in a lower division course may be counted in the major. See "College Degree Requirements," page 324. No more than six hours of POS 484 Internship may be applied to the major.

POLITICAL SCIENCE—B.S.

The B.S. degree in Political Science consists of 48 semester hours, of which 36 must be in political science and 12 in related fields consisting of courses selected from the Departments of Anthropology, Chicana and Chicano Studies, Economics, Geography, History, Psychology, and Sociology, and the African American Studies and the Women's Studies programs. At least 21 hours in political science must be in upper division courses.

The following courses are required:

POS 101 Political Ideologies SB	3
POS 110 Government and Politics SB	3
or POS 310 American National Government SB 3)	
POS 150 Comparative Government SB, G	3
or POS 160 Global Politics SB, G 3)	
POS 301 Empirical Political Inquiry SB	3
POS 401 Political Statistics N2	3
Approved elective	6
Total	21

Students who major in Political Science must have a minimum GPA of 2.00 for all courses that count toward the major. Upper-division courses that count toward the major must have a grade of "C" or higher; no more than one "D" grade in a lower division course may be counted in the major. See "College Degree Requirements," page 324. No more than six hours of POS 484 Internship may be applied to the major.

Asian Studies Certificate or Emphasis. Students majoring in Political Science may elect to pursue an Asian Studies certificate combining courses from the major with selected outside courses of wholly Asian content. See "Asian Studies," page 331, for more information.

Latin American Studies Certificate or Emphasis. Students majoring in Political Science may elect to pursue a Latin American Studies certificate combining courses from the major with selected outside courses of wholly Latin American content. See "Latin American Studies," page 332, for more information.

MINOR IN POLITICAL SCIENCE

The minor in Political Science consists of 18 semester hours in political science courses, 12 hours of which must be upper division courses. Students who minor in Political Science must have two courses from among the following:

POS 101 Political Ideologies SB	3
POS 110 Government and Politics SB	3
or POS 310 American National Government SB 3)	
POS 150 Comparative Government SB, G	3
POS 160 Global Politics SB, G	3

Students who minor in Political Science must have a minimum GPA of 2.00 for all courses that count toward the minor. Upper division courses that count toward the minor must have a grade of "C" or higher; no more than one "D"

in a lower division course may be counted toward the minor. No more than three hours of POS 484 Internship and three hours of POS 499 Individualized Instruction may be applied to the minor

SECONDARY EDUCATION—B.A.E.

Political Science. The major teaching field consists of 45 semester hours, 30 of which must be in political science and 15 in closely related fields.

The following courses are required:

POS 101 Political Ideologies <i>SB</i>	3
POS 110 Government and Politics <i>SB</i>	3
or POS 310 American National Government <i>SB</i> (3)	
POS 150 Comparative Government <i>SB, G</i>	3
or POS 160 Global Politics <i>SB, G</i> (3)	
POS 301 Empirical Political Inquiry <i>SB</i>	3
POS 417 The Arizona Political System <i>SB</i>	3
POS 480 Methods of Teaching Government	3
Total	18

Courses may be substituted for POS 417 and 480 with departmental approval.

Students who pursue this academic specialization in political science must have a minimum GPA of 2.00 for all courses that count toward the major. Upper division courses that count toward the major must have a grade of "C" or higher; no more than one "D" grade in a lower-division course may be counted in the academic specialization. No more than six hours of POS 484 Internship may be applied to the major.

The minor teaching field consists of 24 semester hours in political science courses.

The following six courses are required:

POS 101 Political Ideologies <i>SB</i>	3
POS 110 Government and Politics <i>SB</i>	3
or POS 310 American National Government <i>SB</i> (3)	
POS 150 Comparative Government <i>SB, G</i>	3
or POS 160 Global Politics <i>SB, G</i> (3)	
POS 301 Empirical Political Inquiry <i>SB</i>	3
POS 417 The Arizona Political System <i>SB</i>	3
POS 480 Methods of Teaching Government	3
Total	18

Courses may be substituted for POS 417 and 480 with departmental approval.

Students who pursue this academic specialization in political science must have a minimum GPA of 2.00 for all courses that count toward the academic specialization. Upper division courses that count toward the academic specialization must have a grade of "C" or higher; no more than one "D" grade in a lower division course may be counted in the minor.

Social Studies. See "Social Studies," page 426.

GRADUATE PROGRAMS

The faculty in the Department of Political Science offer programs leading to the M.A. and Ph.D. degrees. Consult the *Graduate Catalog* for requirements.

POLITICAL SCIENCE (POS)

POS 101 Political Ideologies. (3) F S

Leading political ideas and belief systems e.g., Marxism, liberalism, conservatism theories of democracy, and alternative futures *General Studies SB*

POS 110 Government and Politics. (3) F S

Major institutions of modern government and processes of individual and group political activity with emphasis on the American experience. Meets the federal government requirement for teacher certification. Not open to students with credit for POS 310. *General Studies SB*.

POS 150 Comparative Government. (3) F S

Political institutions and processes in selected foreign countries including origins, strengths, and weaknesses of contemporary political systems and political development *General Studies SB G*

POS 160 Global Politics. (3) F, S

The nature of contemporary world politics through the study of both general theoretical topics and specific geographical areas. *General Studies SB, G*

POS 220 Political Issues and Public Policy. (3) A

Contemporary social problems and political issues, particularly development of public policy *General Studies SB*

POS 230 Current Issues in National Politics. (3) F S

Major issues facing national governments in the domestic field *General Studies L1 SB*

POS 240 Introduction to Southeast Asia. (3) F

An interdisciplinary introduction to the cultures, religions, political systems, geography, and history of Southeast Asia. Cross listed as ASB 240 GCU 240 HIS 240 REL 240. Credit is allowed only for ASB 240 or GCU 240 or HIS 240 or POS 240 or REL 240. *General Studies G*

POS 260 Current Issues in International Politics. (3) F S

An analysis of major current problems in world politics *General Studies L1 SB, G*

POS 270 American Legal System. (3) F S

Concepts, institutions, classifications, and functions of law. The role of the courts and the impact of judicial decisions on making social change *General Studies SB*

POS 301 Empirical Political Inquiry. (3) F S

Logic of political inquiry including research problems, concepts, hypotheses, theories, measurement, data collection, and analysis *General Studies SB*

POS 310 American National Government. (3) F, S

Powers, functions, and agents of American political institutions. Meets the federal government requirement for teacher certification. Not open to students with credit for POS 110. *General Studies SB*.

POS 311 Arizona Constitution and Government. (2) F S

Constitution and government of the State of Arizona. Not open to students having credit for POS 316 or 417. Meets the Arizona constitution requirement for teacher certification. May not be counted for the major or a teaching major or minor in Political Science

POS 313 The Congress. (3) A

Lawmaking process in the U.S. Congress *General Studies SB*

POS 314 The American Presidency. (3) A

Office, role, and power of the American presidency in the American political system *General Studies SB*

POS 315 The Supreme Court. (3) A

Role of the Supreme Court in American society and politics; examination of decisions on making process and impact of decisions, restraint versus activism *General Studies SB*.

POS 316 State and Local Government. (3) A

Survey of the operations, problems, and policies of state and local governments in the United States *General Studies SB*.

NOTE: For the General Studies requirement courses and codes (such as L1, N3, C, and H) see General Studies, page 85. For graduation requirements see "University Graduation Requirements," page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses," page 58.

POS 320 Public Administration. 3 A

Role of the administrator in the political process with an examination of the basic concepts of bureaucracy. *General Studies SB*

POS 325 Public Policy Development. (3 A)

Relationships between policy development and administrative processes as affected by the various roles of executives and administrative agencies. *General Studies SB*

POS 331 Public Opinion. (3 A)

Formation, expression and influence of individual and organized opinion on political institutions. *General Studies SB.*

POS 332 American Political Parties. (3) A

Development of the American party system. Party organization and function. *General Studies SB*

POS 333 Interest Groups. 3 A

Examines how minority corporate, labor farm consumer environmental health education and public interest groups and single issue movements influence government. *General Studies SB*

POS 336 Electoral Behavior. (3) A

Voting behavior and the attitudes, perceptions and activities of the citizenry in the political process. *General Studies SB*

POS 340 History of Political Philosophy I. 3 A

Western political philosophers and their theories to the 17th century. *General Studies HU H*

POS 341 History of Political Philosophy II. 3 A

Western political philosophers and their theories from the 17th to the 20th century. *General Studies HU, H.*

POS 346 Problems of Democracy. (3) A

Issues and problems in democratic theory, e.g., the nature of democracy, majority rule, representation, equality, and the value of political participation. *General Studies HU*

POS 350 Comparative Politics. (3) A

Theoretical approaches and political institutions such as parties, pressure groups, legislatures and executives, from a cross-national perspective. *General Studies SB G*

POS 355 Russia and Successor States. (3 A)

Description and analysis of political institutions and practices in Russia and successor states. *General Studies SB G*

POS 356 Western Europe. 3 A

Structures and behavior of governmental institutions and political processes in selected countries of Western Europe. *General Studies SB G*

POS 357 South Asia Politics. 3 A

Analysis of the political culture, parties and political systems of South Asia. Lecture/discussion. *General Studies SB G*

POS 358 Southeast Asia. 3 A

Political background, governmental institutions, political dynamics and developmental problems of Southeast Asian nations. *General Studies SB G*

POS 359 African Politics and Society. 3 N

Comparative analysis of socioeconomic forces, political processes and governmental institutions in Africa south of the Sahara. *General Studies SB G*

POS 360 World Politics. 3 A

Theory and practice of statecraft as applied to selected issues, regions, or eras. *General Studies SB G*

POS 361 American Foreign Policy. (3 A)

United States in world affairs: foreign policy since World War I. Technical questions in formulating American foreign policies. *General Studies SB, G*

POS 364 U.S. National Security Analyses. 3 A

Theoretical and empirical assessment of U.S. national security policy in the post-World War era. *General Studies SB*

POS 370 Law and Society. (3) A

Analysis of debates among social scientists and legal theorists concerning the relationship between law and "society." *General Studies SB*

POS 401 Political Statistics. 3 F S

Basic concepts in statistics as they facilitate the description, explanation and prediction of social and political phenomena. *General Studies N2*

POS 410 Urban Government and Politics. (3 A)

Governmental organizations, decision-making structures and problems of urban political systems. *General Studies SB*

POS 417 The Arizona Political System. (3) N

Contemporary political problems within the context of Arizona's constitutional, political and social frameworks. Meets the Arizona Constitution requirement for teacher certification. Not open to students having credit for POS 311. *General Studies SB*

POS 422 Politics of Bureaucracy. 3 N

Bureaucracy as a political entity: internal dynamics of public agencies, the relationship between public agencies and other political entities. *General Studies SB*

POS 423 Politics of Budgeting. (3) N

The political process in budgeting strategies used to influence the process and recent reforms in public budgeting. *General Studies SB.*

POS 426 Elements of Public Policy. (3) A

Each section may cover one of the following topics: consumer protection, natural resources, criminal justice, environmental protection, science and technology or theories of public policy. May be repeated for credit when topics vary. *General Studies SB*

POS 431 Campaigns and Elections. 3 A

Examines campaigns from a multitude of perspectives including the political reporter, campaign strategist and voter. Lecture, discussion. *General Studies SB.*

POS 433 Money and Politics. 3 A

The role of money and special interests in elections, campaign politics and public policy making in America. Lecture/discussion. *General Studies SB*

POS 434 Media and Politics. 3 A

The study of mass media and politics in the United States, e.g., media and elections, media and government. Lecture/discussion. *General Studies SB*

POS 435 Women and Politics. 3 N

Women's roles in various political contexts. Focus varies with instructor. *General Studies SB, C*

POS 439 Minority Group Politics in America. (3) N

Role of minority groups in American politics. *General Studies SB C*

POS 442 American Political Thought. 3 A

Political theories and movements from the colonial period to the present. *General Studies HU*

POS 443 Topics in Contemporary Political Theory. (3) A

Major problems and theories in contemporary political thought. *General Studies HU*

POS 445 Asian Political Thought. 3 A

Contemporary political ideas and theories in selected Asian countries, including the impact of Marxism and on Marxist theories on revolution on any processes. *General Studies SB G*

POS 451 China, Japan, and the Koreans. (3) A

A comparative analysis of the political modernization experiences of China, Japan, and the two Koreas focusing on the differing reactions to the West. *General Studies SB G*

POS 452 China. 3 A

Background of the Communist revolution, political processes and developmental problems in China from a comparative perspective. *General Studies SB G.*

POS 453 South America. 3 A

Governmental institutions, political processes and developmental problems of the South American states. *General Studies SB G*

POS 454 Mexico. (3) A

Mexican federal, state and local governmental institutions. *General Studies SB, G*

POS 455 Central America and the Caribbean. (3) A

Governmental institutions, political processes and developmental problems of the nation states and dependent areas of Central America and the Caribbean. *General Studies SB G*

POS 459 South and Southern Africa. 3 A

Post-apartheid South African government and politics. South African and the southern African region: regional security and development. *General Studies SB, G*

POS 463 Inter American Relations. 3 A

Diplomatic relations among the Latin American states. Development of U.S. foreign policy toward Latin America. *General Studies SB G*

POS 465 International Organization and Law. 3 A

History, practical political significance and future of international institutions, transnational regimes and international law. *General Studies SB, G*

POS 467 International Security. 3 A

Examnation of issues affecting the international security of states and peoples, e.g. military economic technological environmental and demographic. *General Studies SB G*

POS 468 Comparative Asian Foreign Policies. 3) A

Foreign policies of the Asian states emphasizing the security relations and movements toward regionalism. *General Studies SB G*

POS 471 Constitutional Law I. 3 A

Development of the U.S. Constitution as reflected in decisions of the Supreme Court jurisdiction and organization of the federal courts, judicial review separation of powers, federalism the commerce clause national taxing and spending power state police power. *General Studies SB*

POS 472 Constitutional Law II. 3 A

Development of the U.S. Constitution as reflected in decisions of the Supreme Court due process equal protection of laws individual rights civil liberties. *General Studies SB*

POS 480 Methods of Teaching Government. (3 N

Methods of instruction, organization and presentation of subject matter in political science. Prerequisite 15 hours in political science or instructor approval

POS 484 Internsh'p. 1 12 N**POS 485 Political Economy** 3 A

Problems policies and processes of various political-economic systems and the interrelationship of capitalism, socialism and democracy. *General Studies SB*

POS 486 International Political Economy. 3 A

Contending approaches to historical and contemporary issues of international political economy including global welfare equity, ecology, and peace. *General Studies SB G*

POS 498 PS: Pro-Seminar. 3 A

Small group study and research for advanced students within the major area. Prerequisite major in the department or instructor approval. *General Studies L2*

POS 499 Individualized Instruction. 3 N**POS 501 Methods of Political Science.** 3 A

Problems of method and knowledge in political science strategies of political inquiry and issues in philosophy of social science

POS 502 Philosophy of Political Inquiry. 3 A

Problems of knowledge and method in political science with attention to both empirical and evaluative analysis

POS 503 Empirical Political Inquiry. 3 A

Research methods and techniques of the discipline emphasizing empirical foundations and analytic methods employed in subfields. Prerequisite POS 401 or equivalent instructor approval

POS 530 American Politics. 3 A

Examines major debates in the study of American political processes and institutions. Covers parties media elections public opinion interest groups, and the three branches of government. Seminar

POS 545 Themes in Political Thought. 3 N

Examnation of a particular theme or problem in political thought from both a historical and contemporary perspective. Seminar. Course may be repeated with approval of the director of graduate studies. Prerequisite instructor approval

POS 550 Comparative Politics. 3 A

Surveys major approaches across topical areas such as revolutionary authoritarianism, policy processes interest groups and electoral politics. Focus varies with instructor. Seminar

POS 560 International Relations. 3 A

Surveys major theoretical approaches and debates in international relations. Seminar

POS 563 Comparative As an Security Policies 3 N

Analyzes domestic and international constraints of systems and economic components in security decisions by major powers and as nations. Seminar. Prerequisite instructor approval

POS 591 Seminar. 3 A

- a) American Politics
- b) Comparative Politics
- c) Global Politics
- d) Political Theory

POS 598 ST: Special Topics. 3 A

- a) American Politics
- b) Comparative Politics
- c) Global Politics
- d) Political Theory

POS 601 Advanced Experimental Research. 3 N

Introduces experimental and quasi-experimental research designs in political research including laboratory techniques and techniques in the analysis of variance. Prerequisite POS 503 or equivalent

POS 602 Advanced Survey Research. 3 N

Presents design and conduct of political surveys including sampling instrument design scaling and statistical analysis of survey data. Prerequisite POS 503 or equivalent

POS 603 Polimetrics I. 3 A

Introduces theory and practice of linear regression analysis. Provides skills to read understand, and evaluate professional literature using regression analysis. Prerequisites POS 401 and 503 or instructor approval

POS 604 Polimetrics II. 3 A

Apply quantitative techniques to research topics producing publishable papers through exposure to time series logit and probit and simultaneous equations. Prerequisites POS 411 and 503 and 603 or instructor approval

POS 606 Qualitative and Textual Analysis. 3 S 2001

Method and theory for the analysis of qualitative materials systematic approaches for case studies content analysis critical analysis of texts. Discussion, seminar

POS 635 State Politics and Public Policy. 3) N

Introduction to comparative state policy emphasizing policy performance differences among the states and the reasons for these differences. Seminar. Prerequisites POS 530 and 633 or instructor approval

POS 636 Electoral Behavior. 3) N

Introduces fundamental concepts of electoral behavior. Emphasizes presidential elections and examines why people vote and how their votes are determined. Seminar. Prerequisites POS 530 and 603 or instructor approval

POS 638 Law and Politics. 3 N

Emphasizes research into such topics as constitutional law, women and the law, American legal system judicial process and judicial selection. Seminar. Prerequisite instructor approval

POS 651 Politics of Change and Development. 3 N

Examines competing approaches to national social and political change. Seminar. Prerequisite instructor approval

POS 660 The Modern World System. 3 N

Theoretically driven, historical analysis of the organization and operation of the international political economy since the 16th century. Seminar. Prerequisite instructor approval

POS 661 The State. (3 N

Examines theories of state state society relations, and interstate politics emphasizing questions of sovereignty territoriality electoral representation, democracy and change. Seminar. Prerequisite instructor approval

POS 662 International Organization. 3 N

History practical political significance and future of international institutions transnational regimes and other approaches to international organization. Seminar. Prerequisite instructor approval

POS 664 War, Peace, and Conflict Processes. 3 N

The systematic analysis of the causes of war the preconditions for peace and approaches to the resolution of conflict. Seminar. Prerequisite instructor approval

POS 665 Foreign Policy Theory. 3) N

Examines foreign policy theory and methods. Development and critique of research designs analyzing foreign policy processes within and among nations. Seminar. Prerequisite instructor approval

POS 792 Research. (3) F S

Projects in various areas of political science. Prerequisite doctoral student

NOTE: For the General Studies requirement courses and codes such as L1 N3 C and H see 'General Studies' page 85 For graduate requirements see 'University Graduate Requirements' page 81 For an explanation of additional non-business courses offered but not listed in this catalog see a list on 'Courses' page 58

Department of Psychology

Darwyn E. Linder
Chair
 (PSY 237) 480/965-3326
 www.asu.edu/clas/psych

REGENTS' PROFESSORS

C ALD NI, EISENBERG, RUSSO

PROFESSORS

A KEN, BARRERA, BRAUN, BRAVER,
 CASTRO CHASS N HOMA, KAROLY, KENRICK, K LLEEN,
 KN GHT LANYON LINDER, OKUN, PARKINSON,
 PRESSON, REICH SADALLA, SANDLER SOMERVILLE
 VAN ORDEN WEST WOLCH K ZAUTRA

ASSOCIATE PROFESSORS

CASTANEDA CHART ER, FABRIC US, FEHR,
 GOLD NGER GONZALES LESHOW TZ, MacKINNON
 MILLSAP NAGOSH NE SEWANDER, NEMEROFF
 NEUBERG, ROSS , SAENZ, STONE

ASSISTANT PROFESSORS

CONRAD, DAV S, GEST KHOO MCBEATH

SENIOR LECTURER

WOSINSKI

LECTURERS

BARTON, WEIGAND

The Department of Psychology maintains an Undergraduate Advisement Office staffed by trained personnel. All Psychology majors are encouraged to meet with an undergraduate advisor once each semester to ask questions regarding the choice of courses. Failure to do so may prevent graduation at the expected time. It is the responsibility of the student to consult with an undergraduate advisor.

PSYCHOLOGY—B.A.

The B.A. degree in Psychology consists of 31 semester hours in psychology, including at least 15 upper division semester hours. Required courses, which must be passed with a minimum grade of "C," are as follows:

PGS 101 Introduction to Psychology SB	3
PGS 315 Personality Theory and Research SB or PGS 341 Developmental Psychology SB 3 or PGS 350 Social Psychology SB 3)	3
PSY 230 Introduction to Statistics N2	3
PSY 290 Research Methods L1/S2	4
PSY 323 Sensation and Perception or PSY 320 Learning and Motivation 3) or PSY 324 Memory and Cognition 3 or PSY 325 Physiological Psychology 3	3
Total	16

Also required are one additional upper division PSY course (excluding PSY 494, and 499); two additional upper division PGS or PSY courses, and two additional psychology courses, excluding PGS 270, PGS 484, or PSY 484. No more than a total of three hours in Supervised Research or Individualized Instruction may be used to complete the 31

hours of psychology requirements. Students may take a maximum of six hours of PGS 399 and six hours of PGS 499 and PSY 499 combined. Eighteen hours in courses related to psychology must be passed with a minimum grade of "C." They must be approved by an undergraduate advisor and include MAT 119 (or higher) in addition to one course from among the following:

CSE 180 Computer Literacy N3	3
CSE 185 Internet and the World Wide Web	3

See "College Degree Requirements," page 324.

PSYCHOLOGY—B.S.

The B.S. degree in Psychology consists of 31 semester hours in psychology, including at least 15 upper division hours. Required courses, which must be passed with a minimum grade of "C," are as follows:

PGS 101 Introduction to Psychology SB	3
PGS 315 Personality Theory and Research SB or PGS 341 Developmental Psychology SB 3 or PGS 350 Social Psychology SB 3	3
PSY 230 Introduction to Statistics N2	3
PSY 290 Research Methods L1/S2	4
PSY 323 Sensation and Perception or PSY 320 Learning and Motivation 3) or PSY 324 Memory and Cognition 3 or PSY 325 Physiological Psychology 3)	3
Total	16

Also required are one additional upper division PSY course (excluding PSY 499); two additional upper division PGS or PSY courses; and two additional psychology courses excluding PGS 270, PGS 484, and PSY 484. No more than a total of three hours in Supervised Research or Individualized Instruction may be used to complete the 31 hours of Psychology requirements. Students may take a maximum of six hours of PGS 399 and six hours of PGS 499 and PSY 499 combined. Eighteen hours in courses related to psychology must be passed with a minimum grade of "C." They must be approved by an undergraduate advisor and include MAT 210 Brief Calculus; one life science lab course (BIO or MIC), one physical science lab course (AST, CHM, GLG, or PHY); and one course from among the following:

CSE 180 Computer Literacy N3	3
CSE 185 Internet and the World Wide Web	3

Further, the science courses taken to satisfy the B.S. requirements cannot be used to meet the College of Liberal Arts and Sciences natural science distribution requirements. See "College Degree Requirements," page 324.

MINOR IN PSYCHOLOGY

The minor in Psychology consists of 22 hours in psychology, including the following:

PGS 101 Introduction to Psychology SB	3
PGS 315 Personality Theory and Research SB or PGS 341 Developmental Psychology SB 3) or PGS 350 Social Psychology SB 3)	3

PSY 230 Introduction to Statistics <i>N2</i>	3
PSY 290 Research Methods <i>L1/S2</i>	4
PSY 323 Sensation and Perception	3
or PSY 320 Learning and Motivation 3)	
or PSY 324 Memory and Cognition 3	
or PSY 325 Physiological Psychology 3	
Total	16

Two additional upper division PGS or PSY courses are required

A maximum of three hours of research (PGS 394, 494; PSY 494) may be used to meet the minor requirements. Students with an appropriate equivalent course may exclude PSY 230 from the requirements. A courses must be passed with a minimum grade of "C."

SECONDARY EDUCATION—B.A.E.

Psychology. The minor teaching field consists of 24 semester hours. See a departmental advisor

Social Studies. See "Social Studies," page 426

GRADUATE PROGRAMS

The faculty in the Department of Psychology offer a program leading to the Ph.D. degree. Consult the *Graduate Catalog* for requirements.

PSYCHOLOGY (PGS)

PGS 101 Introduction to Psychology. 3 F, S, SS
Major areas of theory and research in psychology. Participation in department sponsored research or an educational equivalent alternative activity is required. *General Studies SB*

PGS 222 Human Sexual Behavior. 3) F, S
Patterns of sexual behavior, including variations and deviations, theories of sexual attraction, sex differences, and sexual dysfunction and treatment. Prerequisite: PGS 101. *General Studies SB*

PGS 270 Psychology of Adjustment. 3 F, S, SS
Principles of mental health, adjustment, conflict, stress, and coping processes derived from clinical and experimental research. Intended for nonmajors, cannot be used for major credit. Prerequisite: PGS 101. *General Studies SB*

PGS 304 Effective Thinking. 3 A
Understanding and improving your intellectual and behavioral skills. Information analysis, inference, objective problem solving and decision making. Prerequisite: MAT 119 or PSY 230 or equivalent. *General Studies L1*.

PGS 306 Environmental Psychology. 3 F, S, SS
Concepts and research strategies in the study of behavior in interaction with physical environment. Prerequisite: PGS 101. *General Studies SB*.

PGS 315 Personality Theory and Research. 3) F, S, SS
Definition and description of personality in terms of theoretical and methodological approaches. Prerequisites: PGS 101, PSY 290. *General Studies SB*

PGS 341 Developmental Psychology. 3) F, S
Behavior development analyzed in terms of psychological principles. Current research in human development. Prerequisites: PGS 101, PSY 290. *General Studies SB*

PGS 344 Directed Child Study. (3–4 F, S, SS)
Theories and methods of intervention with preschool children and supervised practicum in the Child Study Laboratory. 1-hour lecture, 6–8 hours practicum. Prerequisites: CDE 232 or PGS 341; instructor approval. *General Studies L2*

PGS 350 Social Psychology. 3 F, S, SS
Human social behavior including such concepts as aggression, attraction, attribution, conformity, groups, helping, person perception, and persuasion. Prerequisite: PGS 101. *General Studies SB*

PGS 351 Honors Social Psychology. 3 N
A critical analysis of human social behavior for honors students. Topics include stereotyping, social influence, attraction, aggression, helping, groups, and attitudes. Lecture/discussion. Open only to students without previous credit for PGS 350. Prerequisites: PGS 101, honors standing. Instructor approval. *General Studies L2/SB*

PGS 365 Community Psychology. 3 F, S
Mental health and psychological well-being in the community. Emphasis on current issues and related research. Prerequisite: PGS 315 or 350. *General Studies SB*

PGS 394 ST: Special Topics. 1–4 N

PGS 399 Supervised Research. 1 3 F, S, SS
Experience within the context of current faculty research projects. Student assigned responsibility depending on qualifications. "Y" grade only. May be repeated for a total of 6 hours. Prerequisites: approval of faculty member before registration. B average minimum or Prerequisite: PSY 230 or equivalent.

PGS 414 History of Psychology. 3 F, S
Historical development of psychology from teleology to the present. Prerequisites: PGS 101, PSY 230, 290. *General Studies L2/SB*

PGS 427 Psychology of Aging. 3 N
Analysis of social maintenance and age associated with cognitive and affective aging. Individual differences in coping with normative transitions. Prerequisites: PGS 101, 341. *General Studies L2/SB*

PGS 430 Industrial Psychology. 3 F, S, SS
Organizational and management systems, motivation and work performance, human factors, systems design and evaluation, personnel selection and testing. Prerequisite: MGT 301 or PGS 101

PGS 441 Cognitive Development. (3) F, S
Experimental and theoretical literature in child development and behavior. Prerequisite: PGS 341 or instructor approval. *General Studies L2/SB*

PGS 443 Abnormal Child Psychology. 3 F, S
The major disorders of childhood and adolescence, e.g., autism, hyperactivity, phobias, and delinquency. Are covered including cause, diagnosis, treatment, and prevention. Prerequisites: PGS 101 and 1 course from among PGS 315 and 341 and 350 or instructor approval. *General Studies L2/SB*

PGS 444 Adolescent Psychology and Psychopathology. 3 N
An advanced overview of normal adolescent psychology and development and psychopathology. Disorders of this age period. Lecture/discussion. Prerequisites: PGS 101, 341, PSY 290. *General Studies L2*

PGS 445 Child Language and Drawing. 3 F
Language acquisition and developmental changes in drawing considered in the context of cognitive development. Stage children's representation and communication of knowledge through language and drawing. Prerequisite: PGS 341. *General Studies SB*

PGS 446 Social Development. 3 N
Theory, research and issues regarding social development are discussed. Examples of formation of attachments, prosocial development, and gender-role development. Lecture/seminar. Prerequisite: PGS 341. *General Studies L2*.

PGS 450 Social Perception and Cognition. 3 N
A critical analysis of human social perception and social cognition. Topics include attribution, inference, memory, attention, impression formation, stereotype change. Lecture/discussion. Prerequisites: PGS 101, 350. *General Studies L2*

PGS 451 Stereotyping, Prejudice, and Discrimination. 3 N
A critical investigation of the processes underlying, and the factors contributing to, stereotyping, prejudice, and discrimination. Lecture/discussion. Prerequisites: PGS 101, 350. *General Studies L2*

PGS 452 Applied Social Psychology. 3 F
The study of applications of social psychology theory and concepts in natural settings. Research design and data analysis. Lecture, laboratory activities. Prerequisites: PGS 101, 350, PSY 23. *General Studies L2*

NOTE: For the General Studies requirement courses, and courses such as 1 N, C and H, see General Studies, page 85. For graduate requirements, see University Graduation Requirements, page 81. For an explanation of additional minor courses offered but not listed in this catalog, see Classification of Courses, page 58.

PGS 453 Organizational Behavior. 3 N

A survey of psychology theory and research as applied to the behavior of individuals in organizational settings. Lecture, discussion. Prerequisite: PGS 101/350

PGS 458 Group Dynamics. 3 F

Theories and methods of group leadership, group effectiveness, communication within groups, and relations between groups and individuals. Prerequisite: PGS 350

PGS 461 Interpersonal Influence. 3 N

Principles and procedures that affect the process of social influence. Consideration of attitude, compliance, induction, and perceptual influences. Prerequisite: PGS 35. *General Studies SB.*

PGS 462 Health Psychology. 3 F S

Contributions of psychology to health promotion and disease prevention, adaptation to acute and chronic illness, and to the health care system. Prerequisites: PSY 230/290

PGS 463 Advanced Psychology of Adjustment. (3 F)

Critical analysis and effective expression of psychological theory and research of the topic of adjustment. Lecture/discussion/writing. Prerequisites: PSY 230, 290; completion of 1st-year English requirements. L1 course. *General Studies L2*

PGS 464 Minority Issues in Psychology. 3) S

Psychological issues relating to the diversity of human cultures, experiences, and among ethnic minorities in the U.S. Prerequisite: PSY 290

PGS 465 Psychology of Stress and Coping. 3 F

Readings in theory and research in the area of stress and coping. Lecture/discussion/class presentations. Prerequisites: PGS 315 (or 350) PSY 290. *General Studies L2*

PGS 466 Abnormal Psychology. 3 F S, SS

Historical and current definitions, theory and research concerning abnormal behavior. Major categories of psychopathology including related treatment approaches. Prerequisites: PGS 101, PSY 290. *General Studies SB*

PGS 467 Psychology of Magical Beliefs. 3 N

The psychological nature and bases of magical beliefs and their impact on health behaviors, eating practices, and interpersonal relationships. Lecture/seminar. Prerequisites: PGS 315 and 466 and PSY 434 or instructor approval. *General Studies L2*

PGS 468 Psychology and Law. 3 F S

Theories, research, and practice in psychology as related to law, including criminal, domestic relations, and professional issues. Lecture/discussion. Prerequisite: PSY 290.

PGS 471 Psychological Testing. 3 S

Methods and theory of psychological testing. Various types of psychological tests. Consideration of ethical, social, and legal aspects of testing. Prerequisite: PSY 290

PGS 472 Clinical Psychology. 3 F S

Clinical psychology as a science and profession. Historical development, methods of interviewing, assessment, and therapeutic intervention. Prerequisite: PGS 466

PGS 484 Internship. 1 12 N**PGS 494 ST. Special Topics.** 1-4) N**PGS 499 Individualized Instruction.** 1 3 N**PSYCHOLOGY (PSY)****PSY 230 Introduction to Statistics.** 3 F, S, SS

Basic concepts in descriptive and inferential statistics, emphasizing applications to psychology. The course has both self-paced (PS) and lecture sections. Prerequisites: MAT 117 PGS 101. *General Studies N2*

PSY 290 Research Methods. 4 F S

Planning, execution, analysis, and reporting of experiments. Literature procedures and instruments in representative areas of psychology research. 3 hours lecture/3 hours lab. Prerequisite: PSY 230. *General Studies, L1 S2*

PSY 320 Learning and Motivation. (3 F, S, SS)

Principles of conditioning and motivation approaches to learning, including acquisition of verbal materials, concepts, and motor skills, memory and transfer. Prerequisite: PSY 290

PSY 323 Sensation and Perception. 3 F S

Underlying processes of vision and audition and the other senses. Application of current research and theory in a laboratory environment. Prerequisite: PSY 290 or instructor approval

PSY 324 Memory and Cognition. 3) F S, SS

Processes underlying information storage and retrieval, including different kinds of memory, forgetting, depth of processing, and control processes. Prerequisite: PSY 290

PSY 325 Physiological Psychology. 3 F S, SS

Relationships of physiological processes to behavior. Emphasis on nervous system functioning. Prerequisites: PSY 290 or 2 courses in biological science. Instructor approval

PSY 330 Statistical Methods. 3 S

Advanced application of statistics to psychology. Highly recommended for students interested in attending graduate school. 3 hours lecture/1 hour lab. Prerequisite: PSY 230. *General Studies N2*

PSY 390 Experimental Psychology. 3 S

Introduction of concepts in PSY 290 with emphasis on multifactor designs and programmatic sequence of experiments. Lecture/lab. Prerequisite: PSY 290. *General Studies L2*

PSY 420 Analysis of Behavior. 3 N

Research applications and philosophy of the analysis and control of human behavior. Prerequisite: PSY 290. *General Studies L2*

PSY 424 Genetic Psychology. 3 S

Introduction to the concepts, methodologies, and findings of behavioral genetics for Psychology majors. Prerequisites: PGS 100 PSY 230, 290. *General Studies L2*

PSY 425 Biological Bases of Behavior. 3 N

Critical study of physiological, psychological, brain mechanisms underlying motivation and learning. Prerequisite: PSY 325. *General Studies L2*

PSY 426 Neuroanatomy. 4 N

Structure and function of mammalian brain, including sheep brain dissection. 3 hours lecture/3 hours lab. Prerequisite: PSY 325 or equivalent. *General Studies L2*

PSY 434 Cognitive Psychology. 3 S

The human organism as a processor of information from perception to cognition. Abstract concepts, semantic memory, attention, and mental imagery. Prerequisite: PSY 323 or 324 or instructor approval. *General Studies L2*

PSY 437 Human Factors. 3 F

Emphasis on human factors in high technology systems. Specific topics include systems development, systems analysis, technical displays, and controls. Prerequisites: PSY 290 and upper division standing or instructor approval. *General Studies L2*

PSY 470 Psychopharmacology. 3 F S

Basis of drug action at physiological and behavioral levels. Psychological and medical applications and interactions of drugs used in the treatment of mental illness. Prerequisites: PSY 325. 1 semester each of biology and chemistry

PSY 484 Internship. 1 12 N**PSY 499 Individualized Instruction.** 1 3 N**PSY 501 Supervised Teaching.** 4 F

Experience and examination of perspectives on teaching under graduate psychology. Prerequisites: graduate standing in psychology. Instructor approval

PSY 506 Survey of Research in Environmental Psychology. 3 F

Major topics and paradigms in the study of human-environment relationships. Prerequisite: instructor approval

PSY 512 Advanced Learning. 3 N

Principles and theories of learning, emphasizing research literature. Prerequisite: instructor approval

PSY 524 Advanced Physiological Psychology. 3) N

Contributions of physiological processes and brain function to fundamental behavioral processes. Prerequisite: instructor approval

PSY 528 Sensation and Perception. 3 N

Principles of sensory and perceptual processes, emphasizing research literature. Prerequisite: instructor approval

PSY 529 Correlation and Psychometric Theory. 3 S

Principles of correlational techniques, including regression and multiple correlation. Psychometric theory, including reliability and validity. Prerequisite: instructor approval

PSY 530 Intermediate Statistics. 3 F

Continuation of PSY 529. Psychological statistics, emphasizing the analysis of variance and the design of experiments. Prerequisite: PSY 529 or instructor approval

PSY 535 Cognitive Processes. 3 N

Theoretical and empirical treatment of the human organism as a processor of information including abstract and memory structure problem solving and thinking. Prerequisite: instructor approval.

PSY 541 Research in Cognitive Development. 3) N

Theoretical and empirical issues in the study of children's knowledge and cognitive processes. Comparison of research in Piagetian and other traditions. Prerequisite: admission to Psychology Ph.D. program or instructor approval.

PSY 542 Social Development. 3 N

Major issues in the area of social development are topics for review and critique. Theory, research and content are covered. Prerequisite: instructor approval.

PSY 550 Advanced Social Psychology. (3 F S

Theory and research concerning interpersonal perception decisions on making attitude formation and change group processes social motivation and interaction processes. Prerequisite: instructor approval.

PSY 551 Advanced Social Psychology. 3 F, S

Continuation of PSY 55. Prerequisite: PSY 550 or instructor approval.

PSY 553 Social Influence. 3 N

Research literature relevant to examples of attitude formation and change conformity obedience power compliance, and trust. Prerequisite: PSY 551 or instructor approval.

PSY 555 Experimental and Quasi-Experimental Designs for Research. 3 N

Review of research techniques. Laboratory and field research analyzed applications to specific topics. Prerequisite: instructor approval.

PSY 569 Advanced Study of Personality. 3 N

Personality as a theoretical concept in psychology including definitions on problems behavior and traditional approaches, the measurement of personality and current research issues. Prerequisite: instructor approval.

PSY 572 Psychological Assessment. 3 F

Theory and research on assessment of personality psychopathology and intelligence and construction of psychological assessment instruments. Prerequisite: admission to clinical Ph.D. program or instructor approval.

PSY 573 Psychopathology. 3 F

Theory and research relating to the contribution of psychological, social, physiological and genetic factors to the development and persistence of abnormal behavior. Prerequisite: admission to Psychology Ph.D. program or instructor approval.

PSY 574 Psychotherapy. 3 S

A detailed survey of the theoretical and empirical literature relating to verbal, psychodynamic and interview methods. Structured role playing practice in the major procedures. Prerequisite: admission to the clinical Ph.D. program or instructor approval.

PSY 578 Child Psychopathology. 3 N

Major theories and research related to the development of deviant behaviors in children including some supervised experience in child assessment. Prerequisite: PSY 572 or instructor approval.

PSY 582 Community Psychology. 3 SS

Community systems intervention techniques consultation models history and current statistics of community mental health movement and conceptualization of the roles of community psychologists in social system intervention. Prerequisite: advanced standing in Psychology Ph.D. program or instructor approval.

PSY 588 Consultation Methods. 3 N

Several theories and strategies of organizational consultation. The development of consultative skills through simulation and practical experience. Prerequisite: advanced standing in Psychology Ph.D. program or instructor approval.

PSY 624 Clinical Neuroscience. 3 S

An examination of the biological underpinnings of psychological disorders at the molecular, cellular and systems levels (schizophrenia, depression, anxiety, etc.). Lecture/practicum. Prerequisites: graduate standing; instructor approval.

Department of Religious Studies

Joel Gereboff

Chair

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ASSOCIATE PROFESSORS

COUDERT GEREBOFF, MOORE MORRISON SCHOBER, SWANSON, WOODWARD

ASSISTANT PROFESSORS

CLAY FESSENDEN, UMAR

LECTURER

DAMREL

RELIGIOUS STUDIES—B.A.

The B.A. degree in Religious Studies consists of 45 semester hours, 30 of which must be in religious studies (including 21 in upper division courses) and 15 of which must be in related fields. In order for the student to become acquainted with the character and role of religions across a wide spectrum of social and historical contexts, the 30 semester hours in religious studies must include the following courses:

1. REL 305 Ritual, Symbol, and Myth;
2. at least one course from each of the following distribution areas: Religion in the Americas, Religion and Asian Cultures, and Religion and Western Cultures; and
3. two research seminars, including REL 405 Problems in Religious Studies, which may be repeated for credit.
4. In place of a second seminar, a student may take REL 499 in order to write an undergraduate thesis.

The Religious Studies major is an appropriate choice for students wishing to explore such areas as African/African American Studies; Islamic Studies, Myth, Ritual, and the Arts; Native American Studies; and Religion and Politics. All majors must plan their programs in consultation with a departmental advisor. A minimum GPA of 2.50 is required in the 30 semester hours of religious studies courses.

MINOR IN RELIGIOUS STUDIES

The minor in Religious Studies consists of 18 semester hours, at least 12 of which must be in the upper division. Both REL 305 and 405 are required. For minor verification, students must consult a department advisor.

CERTIFICATES AND EMPHASES

The following are certificate programs or emphases offered in the Department of Religious Studies. For more information on each, see "Certificate Programs and Areas of Emphasis," page 331.

NOTE: For the General Studies requirements courses and codes (such as L1, N3, C and H) see "General Studies" page 85. For graduation requirements see "University Graduation Requirements" page 81. For an explanation of additional non-business courses offered but not listed in this catalog see "Classification of Courses" page 58.

Asian Studies Certificate. Students majoring in Religious Studies may elect to pursue an Asian Studies emphasis or East Asian Studies certificate combining courses from the major with selected outside courses of wholly Asian content.

Jewish Studies Certificate. Students majoring in Religious Studies may elect to pursue a Jewish Studies certificate combining courses from the major with selected outside courses in the area of Jewish Studies.

Latin American Studies Certificate. Students majoring in Religious Studies may elect to pursue a Latin American Studies certificate combining courses from the major with selected outside courses of wholly Latin American content.

Russian and East European Studies. Students majoring in Religious Studies may elect to earn a Certificate in Russian and East European Studies by successfully completing one of the options mentioned in the section on "Russian and East European Studies," page 383.

Southeast Asian Studies Emphasis. Students majoring in Religious Studies may elect to earn a Certificate in Southeast Asian Studies by successfully completing the requirements.

Women's Studies. Students majoring in Religious Studies may elect to earn a Certificate in Women's Studies by successfully completing the requirements.

GRADUATE PROGRAM

The faculty in the Department of Religious Studies offer a graduate program leading to the M.A. degree for those who wish to enter a doctoral program in the study of religions, for those who wish to teach at the community college level, and for those in nonacademic careers who desire general competence in the academic study of religions. Consult the *Graduate Catalog* for requirements.

RELIGIOUS STUDIES (REL)

REL 100 Religions of the World. 3 F S

An introduction to the history of religious traditions of the world including Buddhism, Christianity, Hinduism, Islam, Judaism, and others. Not open to students who have completed REL 200. *General Studies: HU G.*

REL 200 The Study of Religious Traditions. (3) A

A writing-intensive course introducing analytical skills necessary for understanding religious traditions. Beliefs, practices, and communities of several religious traditions of the world. Not open to students who have completed REL 100. *General Studies: L1 HU, G*

REL 201 Religion and the Modern World. (3) A

An introduction to the nature and role of religious beliefs and practices in shaping the lives of individuals and societies, with particular attention to the modern world. *General Studies: L1/HU*

REL 202 Religion and Popular Culture. (3) F S

Explores various intersections between religion and the popular media, including music, news, advertising, the visual arts, literature, performance, and film. Lecture, discussion. *General Studies: HU C.*

REL 203 Saints and Sinners: Explorations in Sacred Biography. (3) F, S

A comparison of the role of biography across religions to examine the process of categorizing people as saints or sinners. Lecture, discussion. *General Studies: HU H*

REL 205 Living and Dying. (3) F S

Ways that religions have understood birth, sexuality, and death and the passing of generations. Examines traditions throughout the world. Lecture, discussion. *General Studies: HU*

REL 210 Introduction to Judaism. (3) A

The beliefs, ceremonies, festivals, and institutions of Judaism emphasizing the contemporary era. The course presupposes no previous knowledge about Judaism. *General Studies: L1 HU H*

REL 225 African American Religion. (3) A

Introduction to the history and development of the African American religious tradition. Lecture, discussion. *General Studies: HU, C*

REL 240 Introduction to Southeast Asia. (3) F

An interdisciplinary introduction to the cultures, religions, politics, systems, geography, and history of Southeast Asia. Cross-listed as ASB 240, GCU 240, HIS 240, POS 240. Credit allowed only for ASB 240, GCU 240, or HIS 240 or POS 240 or REL 240. *General Studies: G.*

REL 270 Introduction to Christianity. (3) A

The beliefs, ceremonies, festivals, and institutions of Christianity emphasizing the contemporary era. The course presupposes no previous knowledge about Christianity. *General Studies: HU*

REL 305 Ritual, Symbol, and Myth. (3) A

Ritual, symbol, and myth as types of religious expression with examples selected from the non-terrestrial religions of the world. *General Studies: L2/HU*

REL 310 Western Religious Traditions. 3 F

Religious traditions of Judaism, Christianity, and Islam comparing their doctrinal, institutional, and ritual systems and social histories. Lecture, discussion. *General Studies: HU H*

REL 315 Hebrew Bible (Old Testament). (3) A

The nature, content, background, historical situation, and message of the books of the Hebrew Bible. English translation. *General Studies: L2/HU H*

REL 317 Introduction to Rabbinic Judaism. (3) A

A historical analysis of the thought, literature, and institutions of rabbinic Judaism. *General Studies: HU H.*

REL 320 American Religious Traditions. (3) F, S

Examination of the formation, development, and interaction of major American religious traditions (indigenous African American, Asian American, and Euro American). *General Studies: HU, C H*

REL 321 Religion in America. (3) F, S

The history of religion in America with attention to issues of history, geography, politics, gender, race, ethnicity, politics, and social reform. *General Studies: HU, C H*

REL 322 Malcolm and Martin. (3) F S

This course examines and contrasts the lives, ministries, contributions, and legacies of Malcolm X and Martin Luther King Jr. *General Studies: HU C*

REL 323 Black Religion: A Biographical Approach. (3) F, S

An examination of the experiences, motivations, and contributions of a number of figures associated with African American religion. *General Studies: HU C*

REL 330 Native American Religious Traditions. (3) A

World views and religious thought presented through the art, architecture, literature, music, mythology, ritual, and folklore of representative tribes in North America. *General Studies: HU, C*

REL 331 History of Native American Religious Traditions. (3) N

The role of religion in Native American history including missions, colonization, and religious adaptation, prophetic messianic, and religious revitalization movements. *General Studies: L2/HU, C H*

REL 332 South American Indian Religions. 3 F, S

An introduction to the sacred stories, ceremonies, and beliefs of Native South American peoples in their historical contexts. *General Studies: HU, G.*

REL 344 Religion and Values in Japanese Life. (3) S

Japanese values expressed in the life and annual cycles of the family, local and national identities, and popular culture. Lecture, discussion. *General Studies: HU, G.*

REL 345 Asian Religious Traditions. 3 F

Introduction to the major concepts of religious beliefs, rituals, and practices in Hinduism and Buddhism. Lecture, discussion. *General Studies: HU, G*

REL 350 Hinduism. 3 A

The study of diverse forms of Hinduism through its institutions, literature, folklore, art, and architecture. *General Studies: L2/HU, G H*

REL 351 Buddhism. (3) A

Doctrines, practices, and institutions of the Buddhist religion, emphasizing its role in the history and culture of Asian societies. *General Studies: L2/HU G*

REL 355 Japanese Cities and Cultures to 1800. (3 S)
Relations among ideas and literary visual and performing arts of the ancient aristocracy medieval samurai and early modern townspeople. Cross-listed as HUM 310. Credit is allowed only for HUM 310 or REL 355. *General Studies L1 HU H*

REL 365 Islamic Civilization. (3 F)
Global history survey of social cultures and societies up to the modern period. Lecture, discussion. Cross-listed as HIS 365. Credit is allowed only for HIS 365 or REL 365. *General Studies HU, H*

REL 366 Islam in the Modern World. (3 S)
Examination of the worldwide transformations of Islamic religion, cultures, and societies in the modern period. Lecture, discussion. *General Studies HU, G, H*

REL 371 New Testament. (3 A)
Origins and literature of early Christian communities; historical investigations of the type and written tradition in the New Testament. *General Studies HU*

REL 372 Formation of the Christian Tradition. (3 A)
Origins, development and expansion of Christian major themes and tensions from the New Testament world to the beginning of the Middle Ages. *General Studies HU, H*

REL 373 Women in Judaism. (3 S)
A study of the legal, social and cultural status of Jewish women in various historical and contemporary societies. Cross-listed as WST 372. Credit is allowed only for REL 373 or WST 372.

REL 374 Witchcraft and Heresy in Europe. (3 N)
Background, origin and development at the question. Analysis of marginal groups and their suppression. Cross-listed as HIS 340. Credit is allowed only for HIS 340 or REL 374. Prerequisite: upper-division standing or instructor approval. *General Studies L2 H*

REL 377 Religion in Russia. (3 F S)
Examines the history of the various religious traditions of Russia and the former USSR from an interdisciplinary perspective. *General Studies HU, H*

REL 379 Religion, Nationalism, and Ethnic Conflict. (3 F S)
Examines the role of religion in national and ethnic conflict in the contemporary world. *General Studies HU, G*

REL 381 Religion and Moral Issues. (3 A)
The manner in which human religiousness relates to social concerns, e.g. sexuality, the environment, bioethical issues, and violence. *General Studies L2/HU*

REL 382 Religion, Magic, and Science. (3 F S)
The relationship and conflict between religion, magic and science in the west from antiquity to the present. Lecture, discussion.

REL 385 Contemporary Western Religious Thought. (3 A)
Introduction to contemporary Jewish and Christian thought. Topics include religion and politics, problem of evil, interpretations of God and feminist theology. *General Studies L2/HU*

REL 390 Women and Religion. (3 A)
The role of women in several organized religions and/or religious sects including a study of myth and symbols as they are used to establish, maintain and enforce sex roles within specific religions. *General Studies HU, G*

REL 405 Problems in Religious Studies. (3 F, S)
Selected topics in religious studies involving students in research interests of instructor. May be repeated for credit when topics vary. Seminar. Prerequisite: at least 9 semester hours of REL courses or instructor approval.

REL 410 Judaism in Modern Times. (3 N)
Variety of expressions of Judaism and Jewishness in the modern period. Topics may include American Judaism or religious responses to the Holocaust. *General Studies HU, H*

REL 415 The Jewish Mystical Tradition. (3 A)
Examination of some of the esoteric or "Judaism Movements and literature such as Hasidism and Kabbalah are studied. *General Studies HU*

REL 420 Religion in American Life and Thought. (3 A)
The influence of religion on American society, culture and ideas; the distinctive character of religion in America. Prerequisite: REL 320 or 321 or equivalent. *General Studies L2/HU*

REL 426 American Preachers and Preaching: The Sermon in America. (3 N)
The life and work of notable American preachers. The emergence of the preacher as representative of American religion. Prerequisite: REL 320 or 321 or equivalent. *General Studies L2/HU*

REL 427 American Religious Thought. (3 N)
The thought of representative American religious thinkers, e.g. Jonathan Edwards, William Eery Channing, Horace Bushnell and Reinhold Niebuhr. Prerequisite: REL 320 or 321 or equivalent. *General Studies HU, H*

REL 444 Religion in Japan. (3 F)
Religion in Japanese history, especially the development of Japanese Buddhism and religion in the modern transformation of Japan. Prerequisite: instructor approval. *General Studies HU, G, H*

REL 460 Studies in Islamic Religion. (3 A)
Issues in the interpretation and understanding of Islamic texts, history, society, culture, and rituals. Prerequisites: REL 365 and Religious Studies major or instructor approval. *General Studies HU, G*

REL 470 Religion in the Middle Ages. (3 A)
Religious aspects of medieval life and thought; variety of forms of dissent, heresy and reform movements from the 4th to 13th centuries. *General Studies HU, H*

REL 471 Reformation and Modern Christianity. (3 A)
Protestant Reformation to contemporary Christian movements; includes factors in the dissolution of the medieval Christian synthesis; variety of reform movements and reformation patterns; Catholic counter-reform measures; formation of liberal theology, ecumenical movement and the World Council of Churches. *General Studies HU, H*

REL 480 Religion and Global Politics. (3 S)
Explores the nature and role of religion in international politics in the modern period. Lecture, discussion.

REL 486 Modern Critics of Religion. (3 A)
Major theories and critiques of religion among modern social philosophers and religious thinkers. *General Studies HU*

REL 494 ST: Special Topics in Religious Studies. (3 N)
Open to all students, freshmen by instructor approval only. Topics may be selected from various areas.

REL 498 PS: Pro-Seminar in Religious Studies. (3 A)
For students with a major or minor emphasis in Religious Studies.

REL 499 Individualized Instruction. (1-3 N)

REL 501 Research Methods in Religious Studies. (3 F)
An exploration of the major themes and methods in the study of religion with primary focus on classical texts. Lecture, discussion.

REL 502 Research Methods in Religious Studies. (3 F S)
An exploration of the major themes and methods in the study of religion with primary focus on contemporary texts. Lecture, discussion.

REL 591 Seminar. (3 N)
Topics on methodological issues in the study of religion. Prerequisite: Religious Studies graduate student or instructor approval.

REL 598 ST: Special Topics. (3 F S)
Topics are selected from the following areas:
(a) Christianity: Greco-Roman Religion
(b) Comparative Western: Ancient Near East, Judaism
(c) Islam
(d) Native American Religion
(e) Problems in Religious Studies
(f) Religion in America
(g) Religion in East Asia
(h) Religion in South Asia
(i) Study of Religion: Comparative Religion
(j) Western Religious Thought: Ethics
May be repeated for credit.

NOTE: For the General Studies requirement courses and codes (such as L1, N3, C and H) see General Studies' page 85. For graduation requirements, see University Graduation Requirements' page 81. For an explanation of additional minor courses offered but not listed in this catalog, see 'Classification of Courses' page 58.

Department of Sociology

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 LANER, NAGASAWA, PETERSON THOMAS WE TZ,

ASSOCIATE PROFESSORS

BENNETT BLAIR, HARLAN JACOBSON, KEITH
 MILLER-LOESS SULLIVAN

ASSISTANT PROFESSORS

QIAN, RHEA

LECTURERS

FINE PADILLA

INSTRUCTOR

WILLIAMS

SOCIOLOGY—B.A.

The B.A. degree in Sociology requires a minimum of 30 semester hours of Sociology course work and 15 hours in closely related fields. Of the 30 required hours, a minimum of 18 hours must be upper division with at least 12 of the 18 upper division hours taken in residence at ASU Main Campus. All upper division courses in the major must be completed with a grade of "C" or higher. The following courses are required:

SOC 01	Introductory Sociology SB	3
	or SOC 301 Principles of Sociology SB 3	
SOC 390	Social Statistics I A2	3
SOC 391	Sociological Research SB	3
SOC 471	Racial and Ethnic Minorities SB	3
	or SOC 474 Afro American in Modern Society L2 SB C 3	
SOC 483	History of Social Thought L2/SB	3
	or SOC 485 Sociology of Knowledge L2 SB 3	
	or SOC 486 Contemporary Theory SB 3	
Total		15

Sociology majors may complete the remaining 15 required hours through selecting one of two options. For a general sociology preparation, students must choose five courses that will sample at least three of the six sociology content areas:

1. family;
2. intergroup relations and social psychology;
3. political comparative historical;
4. social problems and processes;
5. stratification/occupations organization; or
6. urban sociology demography.

If majors desire a narrower preparation in a specialized area of sociology, they may complete the remaining 15 hours through the focus area option. At present five substantive focus areas have been articulated: family issues,

urban issues, diversity issues, work/organizational issues, and health issues. Students choosing this option to fulfill major requirements must complete two required focus area courses and select the remaining three courses from a list of optional courses within that focus area. SOC 484 Internships are available within the focus area option.

Information concerning the two options for fulfilling major requirements is available in the Department of Sociology office, SS 321, the Sociology Advising Center, SS 304, and on the Internet at www.asu.edu/clas/sociology undergraduate advising.

MINOR IN SOCIOLOGY

The minor in Sociology requires 18 hours, of which 12 hours must be upper division courses, with at least six upper division hours completed at ASU Main Campus. The required courses are as follows:

SOC 101	Introductory Sociology SB	3
	or SOC 301 Principles of Sociology SB 3	
	Choose one of the course below	3
SOC 390	Social Statistics I A2 3	
SOC 391	Sociological Research SB 3	
SOC 483	History of Social Thought L2 SB 3	
SOC 485	Sociology of Knowledge L2 SB 3	
SOC 486	Contemporary Theory SB 3	
Total		6

The remaining four courses consist of sociology electives.

SECONDARY EDUCATION—B.A.E.

Social Studies. The major teaching field of social studies education consists of 63 semester hours, of which 30 hours may be in criminal justice, economics, geography, history, political science, psychology, and sociology and are exactly those courses required for the B.A. degree in Sociology. Of the remaining hours, two groups of 12 hours each and one of six hours are generally taken in related social sciences plus SED 480 Special Methods of Teaching Social Studies.

The minor teaching field consists of 24 semester hours, at least six of which must be upper division. SOC 101 or 301, and SOC 470 Racial/Ethnic Minorities or SOC 474 Afro American in Modern Society are required. The remaining 21 hours must be approved by the sociology advisor in consultation with the student and must include at least one course from at least four of the following seven areas:

1. family;
2. intergroup relations and social psychology;
3. political comparative historical;
4. racial/ethnic relations;
5. social problems and processes;
6. stratification/occupations organization; or
7. urban sociology demography.

GRADUATE PROGRAMS

The faculty in the Department of Sociology offer programs leading to the M.A. and Ph.D. degrees. Consult the *Graduate Catalog* for requirements.

SOCIOLOGY (SOC)**SOC 101 Introductory Sociology.** 3 F S SS

Fundamentals of sociology organization of human groups and society, processes of interaction and social change. Not open to students who have credit for SOC 301. 2 hours lecture 1 hour discussion. *General Studies SB*

SOC 301 Principles of Sociology. 3 F S SS

Intensive and critical analysis of the concepts of sociology. Not open to students who have credit for SOC 101. *General Studies SB*

SOC 312 Sociology of Adolescence. (3) F S

Cultural values and the social processes that help explain the development of the phenomenon of modern adolescence including vestigation of adolescent subcultures and cross-cultural references. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 315 Courtship and Marriage. 3 F S SS

An overview of courtship marriage and related processes focusing on problematic aspects of these institutions from the sociological perspective. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 318 Overview of Aging. 3 F

Multidisciplinary introduction to gerontology. Explores the characteristics, experiences, needs, and problems of older persons. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 321 Sociology of Work. (3) S

Social and cultural analysis of industry. Occupational roles, status, and social participation of workers. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 331 Environmental Sociology. 3 F

Analysis of human organization responses to population growth, technological change, and environmental stressors on both a national and global scale. Prerequisites: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 332 Urban Sociology. 3 F S

Growth characteristics and problems of the modern city. Prerequisite: SOC 101 or 301. *General Studies SB G*

SOC 333 Population. 3 F S SS

Theories of population change, births, deaths, and migration, population policies. Prerequisite: SOC 101 or 301. *General Studies SB G*

SOC 340 Sociology of Deviant Behavior. 3 F S SS

A sociological analysis of stigmatized behaviors and conditions including the causes, effects, and management of stigma. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 341 Modern Social Problems. 3 F S SS

Race relations, poverty, unemployment, and other current issues. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 352 Social Change. 3 F S

Patterns of social change, resistance to change, and change-producing agencies and processes. Prerequisite: SOC 101 or 301. *General Studies SB G, H*

SOC 360 Sociological Psychology. 3 F S

Interaction patterns between the sociocultural order and individual socialization process norms and statistical objective behavior. Prerequisite: SOC 101 or 301. *General Studies SB*

SOC 361 Variant Sexuality. 3 F

Sociological research and theories dealing with homosexuality, transvestism, transsexualism, and other variations in sexual orientation and gender identity. Prerequisite: SOC 101 or 301. *General Studies SB*

SOC 365 The Sociology of Mass Communication. 3 F S

A sociological exploration of the major mass media as a communicative process in American society. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 368 Sociology of Everyday Life. 3 F S

Examination of routine everyday behaviors as representative of social order, change, identity, and relationships. Prerequisite: SOC 101 or 301 or instructor approval.

SOC 390 Social Statistics I. 3 F S SS

Descriptive and inferential statistical methods for analysis of social data. Computer applications. Prerequisites: SOC 101 or 301. *NI course. General Studies N2*

SOC 391 Sociological Research. 3 F S SS

Methods of sociological research including the fundamental assumptions underlying research and some practical experience in research design, data collection techniques, and data analysis. Prerequisite: SOC 101 or 301 or 390 or instructor approval. *General Studies SB*

SOC 415 The Family. 3 F S SS

The family considered from the institutional viewpoint, its historical development and its adaptation to a changing culture, the family system in many cultures. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 416 Marriage Problems in Contemporary Society. 3 S

Marital and family problems in today's society from the viewpoint of personal and cultural adjustment. Prerequisites: SOC 101 (or 301) and an additional 3 hours in sociology or instructor approval. *General Studies L2/SB*

SOC 417 Family Violence. 3 F S

Study of current research and theory on several aspects of domestic violence, including child maltreatment, spouse aggression, and courtship violence. Prerequisite: instructor approval. *General Studies SB*

SOC 418 Aging and the Life Course. (3) F S

Social aspects of aging. Theoretical and methodological perspectives and problems of aging such as life satisfaction, retirement, and adjustment to loss. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies SB*

SOC 420 Sociology of Religion. (3) S

Interaction of culture, society, and religion, religion and social stratification, religious economics and political institutions, social change and religion. Emphasis on American society and institutions. Prerequisites: ASB 102 or SOC 101 or 301 and an additional 3 hours in sociology or instructor approval. *General Studies L2/SB*

SOC 421 Sociology of Education. 3 S

Contemporary sociological perspectives are used to examine effects of school and schooling on individuals and society. Prerequisite: SOC 101 or 301 or instructor approval.

SOC 422 Sociology of Complex Organizations. 3 F

Sociological studies of government agencies, industrial firms, labor unions, military establishments, and other large-scale organizations. Prerequisite: 6 hours in sociology, including SOC 101 or 301 or instructor approval. *General Studies L2/SB*

SOC 423 Social Class and Stratification. (3) S

Social classes and the function of these groupings in a society. Prerequisites: SOC 101 (or 301) and an additional 3 hours in sociology or instructor approval. *General Studies L2/SB*

SOC 424 Politics of Women's Health. 3 S 2001

Women as health care workers and issues of health, illness, and health care for women. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies L2*

SOC 427 Sociology of Health and Illness. 3 F

Social aspects of physical and mental illness and sociological analysis of the health care system and its practitioners. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies L2/SB*

SOC 428 AIDS and Society. 3 F

This course provides a sociological perspective on stigma and illness in general and AIDS in specific. Prerequisite: SOC 101 or 301 or instructor approval.

SOC 429 Sociology of Law. 3 S

Examination of law as an institution, its operations, and consequences. Emphasis on contemporary legal issues and problems. Prerequisite: SOC 101 or 301. *General Studies SB*

SOC 433 Demographic Methods. 3 S

Science of population analysis, problems in measurements of size, position, and changes in population. Prerequisite: SOC 101 or 301. *General Studies SB*

NOTE: For the *General Studies* requirement courses and codes such as L1, N3, C, and H, see *General Studies*, page 85. For graduation requirements see *University of Graduate Requirements*, page 81. For an explanation of additional non-business courses offered but not listed in this catalog, see *Classification of Courses*, page 58.

SOC 446 Sociology of Crime. (3) F

The process of criminalization exploring the behavior of the definers of crime and the behavior of those defined as criminals. Prerequisites: SOC 101 (or 301) and 340 or instructor approval. *General Studies: SB*

SOC 451 Comparative Sociology. (3) F

Cross-cultural study of basic social institutions, the methodology of cross-cultural research. Prerequisite: ASB 102 or SOC 101 (or 301) or instructor approval. *General Studies: SB G*

SOC 455 Social Movements. (3) F S

Survey of theoretical approaches and research on historical and recent social movements. Emphasis on cultural politics and social change. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies: SB*

SOC 456 Political Sociology. (3) S

Social factors associated with voting, nature and structure of the electorate and political parties and the nature of national and international power structure. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies: SB, G*

SOC 464 Women's Roles. (3) S

Sociological analysis of the development, nature, and consequences of traditional and alternative roles of women in contemporary society. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies: L2/SB, C*

SOC 470 Racial and Ethnic Minorities. (3) F S, SS

Problems of minorities in the United States and in other racially and ethnically heterogeneous societies. Evaluation of theories of prejudice and of research dealing with discrimination, desegregation, and assimilation. Lecture, discussion. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies: SB*

SOC 474 Afro-American in Modern Society. (3) F, S, SS

Social and cultural heritage of black Americans, achievements and current trends. Lecture, discussion. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies: L2/SB, C*

SOC 483 History of Social Thought. (3) S, SS

Social thought in human culture. Background of modern sociology. Prerequisite: SOC 101 or 301. *General Studies: L2/SB*

SOC 484 Internship. (1-12) N**SOC 485 Sociology of Knowledge.** (3) F

Relationship between social conditions and the development of knowledge in modern society. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies: L2/SB*

SOC 486 Contemporary Theory. (3) S

Contemporary issues and crises in social theory with major focus on particular theorists, ideological factors in theory, philosophical issues, the nature of theory and its relationship with methodology. Prerequisite: SOC 101 or 301 or instructor approval. *General Studies: SB*

SOC 501 Practicum in Survey Research. (3) F S

A research practicum in survey field work, analysis and reporting in the Phoenix Area Study. Prerequisite: SOC 391 or equivalent

SOC 502 Practicum in Survey Research. (3) F, S

Continuation of SOC 501. Prerequisite: SOC 501

SOC 503 Sociology as a Profession I. (1) F

Becoming and working as a sociologist: including how to write a vita, choose a thesis topic, or find dissertation data. Prerequisite: graduate Sociology major

SOC 504 Sociology as a Profession II. (1) S

Becoming and working as a sociologist: including how to write a vita, choose a thesis topic, or find dissertation data. Prerequisite: graduate Sociology major

SOC 505 Applied Regression Analysis. (3) F, SS

Multivariate regression topics relevant to sociological data analysis. Computer applications. Prerequisites: SOC 390 (or equivalent); a proficiency examination

SOC 507 Social Statistics IIIA: Categorical Data Analysis. (3) F

Logistic regression and related topics relevant to categorical data analysis in sociology. Computer applications. Prerequisite: SOC 505 or instructor approval

SOC 508 Social Statistics IIIB: Structural Equation Analysis. (3) S

Structural equation models are taught using LISREL and other computer packages. Topics include multiple group analyses and ordinal endogenous variable models. Prerequisite: SOC 505 or instructor approval

SOC 509 Social Statistics IIIC: Event History Analysis. (3) F S

Proportional hazards models and other methods for analyzing longitudinal data and establishing hazard rates of events for exploratory variables. Prerequisite: SOC 505 or equivalent

SOC 515 Studies of the Family. (3) S

Current developments in the study of marriage and the family. Prerequisite: instructor approval

SOC 585 Development of Sociology. (3) F

Major sociological theorists, including Durkheim, Weber, Marx, Parsons, Merton, Dahrendorf, Homans, and Mead. Prerequisite: instructor approval

SOC 586 Contemporary Sociological Theory. (3) S

Analysis of major theories, including structural-functional, conflict, social exchange, symbolic interaction, and role theory. Prerequisite: instructor approval

SOC 587 Contemporary Issues in Sociology. (3) S

Philosophy of social science. Contemporary issues in sociological theory and methods. Prerequisite: instructor approval

SOC 588 Methodological Issues in Sociology. (3) S

Basic methodological issues in the application of scientific methods to the study of human social life. Emphasis on limited number of major works with contrasting approaches to issues

Department of Speech and Hearing Science

David Ingram

Chair

(LL A145) 480/965-2374

www.asu.edu/clas/shs

PROFESSORS

S. BACON, CASE, DORMAN, D. INGRAM,
LAPOINTE, W. LCOX

ASSOCIATE PROFESSORS

L. SS, SINEX

ASSISTANT PROFESSORS

AZUMA, HADLEY, RISPOL, SHARMA

CLINICAL PROFESSOR

MATHY

CLINICAL ASSOCIATE PROFESSORS

C. BACON, BROWN, MINTZ, REMSON

CLINICAL ASSISTANT PROFESSORS

COOK, K. INGRAM, WEXLER

LECTURERS

BEAL-GEVARTER, BIGWOOD, HOWARD, NEUMANN,
O'BRIEN, QUINN, RIGGS

SPEECH AND HEARING SCIENCE—B.S.

The B.S. degree in Speech and Hearing Science consists of 45 semester hours of speech and hearing science courses emphasizing the developmental and scientific aspects of language, speech, and hearing. The following courses, or their approved equivalents, are required:

SHS 250	Introduction to Phonetics	3
SHS 310	Anatomical and Physiological Bases of Speech	3
SHS 311	Physical and Physiological Bases of Hearing	3
SHS 367	Language Science <i>SB</i>	3
SHS 375	Speech Science	3

SHS 376 Psychoacoustics	3
SHS 384 Hearing Disorders	3
SHS 401 Introduction to Audiologic Evaluation	3
SHS 402 Modifying Communicative Behavior	3
SHS 431 Developmental Speech Disorders	3
SHS 450 Observation	1
SHS 465 Speech and Language Acquisition <i>SB</i>	3
SHS 470 Developmental Language Disorders	3
SHS 496 Aural Rehabilitation	3
Total	40

The remaining speech and hearing science courses to complete the major are determined by the students in consultation with an advisor. A list of approved electives is available through the department. Supporting courses from related fields must include the following or their equivalents:

BIO 201 Human Anatomy and Physiology I <i>S2</i>	4
MAT 170 Precalculus <i>NJ</i>	3
PGS 101 Introduction to Psychology <i>SB</i>	3
PHY 101 Introduction to Physics <i>S1 S2</i>	4
PSY 230 Introduction to Statistics <i>N2</i>	3
Total	17

PSY 290 Research Methods (4) is strongly recommended.

GRADUATE PROGRAMS

The faculty in the Department of Speech and Hearing Science offer programs leading to the M.S. degree in Communication Disorders and Ph.D. degree in Speech and Hearing Science. Consult the *Graduate Catalog* for requirements.

SPEECH AND HEARING SCIENCE (SHS)

- SHS 105 Introduction to Human Communication Disorders.** (3) F S
Introduction to hearing, language, and speech problems in children and adults. Lecture, demonstration.
- SHS 174 American Sign Language I.** (4) F S
Basic receptive expressive conversational skills, basic grammar and syntax rules. Orientation to deafness and deaf culture. Lecture, drill, practice, dialogue and discussion.
- SHS 175 American Sign Language II.** 4 F S
Further development of receptive expressive conversational skills in ASL; finger spelling. Continued exploration of deaf culture. Lecture, discussion, drill, practice. Prerequisite: SHS 174
- SHS 250 Introduction to Phonetics.** 3 F
An introduction to English phonetics with emphasis on phonetic transcription, articulation, phonology and disorders of speech.
- SHS 274 American Sign Language III.** (4) F S
Continued development of fluency in ASL with an emphasis on more abstract concepts and the ability to narrate events. Lecture, discussion, drill, practice. Prerequisite with a grade of 'C' or higher: SHS 175.
- SHS 275 American Sign Language IV.** 4 F S
Further development of fluency in ASL with an emphasis on literature for klore and signing narratives with multiple characters. Prerequisite with a grade of 'C' or higher: SHS 274
- SHS 310 Anatomical and Physiological Bases of Speech.** 3 F
A noncadaveric study of anatomical systems that underlie human speech and language including respiration, phonation, articulation and related nervous system processes. Prerequisite: BIO 201

- SHS 311 Physical and Physiological Bases of Hearing.** 3 F
Study of the physical characteristics of sound and of the structure and function of the human auditory system. Prerequisites: BIO 201, PHY 101
- SHS 320 Facilitating Speech and Language Development in Early Childhood.** 3 F S
Speech and language development and strategies for facilitating communication skills in early childhood educational settings.
- SHS 367 Language Science.** 3 F
Normative aspects and integration of language structure, comprehension and production in children and adults. *General Studies SB*
- SHS 375 Speech Science.** 3 F
Normative aspects of speech, hearing, and language. Prerequisites: SHS 310, 311
- SHS 376 Psychoacoustics.** 3 S
Introduction to acoustics, cochlear anatomy and physiology and the perception of sound. Prerequisite: SHS 311 or instructor approval
- SHS 384 Hearing Disorders.** 3 S
Pathologies of the ear and associated peripheral and central hearing disorders: characteristics, management and effects on communication. Prerequisites: SHS 311, 376
- SHS 401 Introduction to Audiologic Evaluation.** (3) F
Measurement of the basic audiologic test battery including audiograms, immittance, masking, and speech recognition. Prerequisites: SHS 311 and 376 and 384 or equivalents
- SHS 402 Modifying Communicative Behavior.** (3) S
Principles and techniques of modifying speech and language behavior. Prerequisite: SHS 250 or equivalent
- SHS 431 Developmental Speech Disorders.** 3 S
Introduction to the nature of articulation, fluency, resonance, and voice disorders in childhood. Prerequisites: SHS 250 and 310 or equivalents
- SHS 450 Observation.** 1 F S
Opportunity to obtain observational experience at the ASU Speech and Hearing Center or at external sites. Prerequisite: instructor approval
- SHS 465 Speech and Language Acquisition.** 3 S SS
Speech and language development in the normal child. Prerequisite: SHS 367 or equivalent. *General Studies SB*
- SHS 470 Developmental Language Disorders.** 3 F
Introduction to the nature and treatment of language disorders in children. Prerequisite: SHS 465 or instructor approval
- SHS 483 Professional Issues in Communication Disorders.** (3) F
Topics related to professional certification, accreditation, code of ethics, graduate education and other issues in speech language pathology and audiology
- SHS 485 Acquired Speech and Language Disorders.** 3 S
Introduction to acquired speech and language disorders across the lifespan. Prerequisites: SHS 250, 310
- SHS 494 ST. Special Topics.** (3) F S
Topics may be selected from the following:
a. Hearing Disorders
b. Research
c. Speech and Language Disorders
May be repeated for credit. Prerequisite: instructor approval
- SHS 496 Aural Rehabilitation.** 3 S
Approaches to aural rehabilitation of children and adults. Introduction to educational audiology and assistive listening devices. Prerequisites: SHS 375 and 376 and 401 or equivalents
- SHS 501 Introduction to Audiologic Evaluation.** 3 F
Measurement of the basic audiologic test battery including audiograms, immittance, masking, and speech recognition. Prerequisites: SHS 311 and 376 and 384 or equivalents
- SHS 502 Differential Diagnosis for Audiology.** 4 F
Differential diagnosis of cochlear and retrocochlear disorders, and assessment of vestibular system. 3 hours lecture, 2 hours lab. Prerequisite: SHS 401 or 501 or equivalent
- SHS 504 Hearing Aids.** 4 S
Operational application and fitting of amplification devices for the hearing impaired. 3 hours lecture, 2 hours lab. Prerequisite: SHS 401 or 501 or equivalent

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see "General Studies" page 85. For graduate requirements, see "University Graduate Requirements" page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 58.

SHS 505 Computers and Current Technology in Audiology and Speech-Language Pathology. 3 F

Computer applications and current technology as applied to service administration and delivery of audiology and speech language pathology to the able

SHS 508 Pediatric Audiology. 3 F

Audiological assessment screening and development of deafness for infants and young children Prerequisite SHS 401 or 501 or equivalent

SHS 510 Advanced Hearing Science. 3 N

Anatomical physiological and psychophysical aspects of audition Prerequisite SHS 376 or instructor approval

SHS 511 Auditory Perception by the Hearing Impaired. 3 F

A study of how auditory or neural hearing loss affects the perception of sound Prerequisite SHS 376 or instructor approval

SHS 512 Medical Aspects of Speech and Hearing. 3 F

Correlation of otolaryngological findings with pathological physiology and test results in speech and hearing abnormalities

SHS 515 Audiologic Instrumentation and Calibration. 3 S

Electronic instrumentation used to produce, modify and measure characteristics of sound. Measurement standards and methods for calibration of audiologic equipment Lecture and lab Prerequisite SHS 401 or 501 or equivalent

SHS 516 Auditory Evoked Potentials. 4 S

Continuation of SHS 512 including electrophysiological assessment of peripheral auditory nervous system Lecture and lab Prerequisite SHS 512

SHS 545 Speech Perception by the Hearing Impaired. 3 F

Speech perception problems of the hearing impaired including those who have cochlear implants Prerequisite SHS 375 or instructor approval

SHS 552 Otoacoustic Emissions as a Diagnostic Tool. 3 F

Study of the type of otoacoustic emissions, their theoretical amplitude and application to clinical diagnosis Lecture and discussion lab Prerequisite SHS 376 or instructor approval

SHS 555 Cochlear Implants. 3 S

Current status of hearing implant research and development Prerequisite SHS 514 and 45 or instructor approval

SHS 565 Speech and Language Acquisition. 3 S

Speech and language development of the normal child Prerequisite H 36 or equivalent

SHS 566 Psychology of Language. 3 S

The psychological study of the production and comprehension of language across the lifespan

SHS 567 Neural Bases of Communication Disorders. 3 F

Neuroscience and application to matters of normal and disordered communication Prerequisite SHS 310 or equivalent

SHS 570 Communication Disorders and Multicultural Populations. 3 S

Study of racial and ethnic bases and the communication behaviors and modes of various cultural groups

SHS 571 Augmentative Communication and Language Programming. 3 S

Focus on individual assessment of the age span who are or who are at risk for being unable to communicate with spoken language Lecture and lab

SHS 572 Language Assessment and Intervention in Early Childhood. 3 F

Focus on the birth to 5 year old population who are at risk for having communication and language delays Prerequisite SHS 470 or equivalent

SHS 573 Language Assessment and Intervention with School Age Populations. 3 S

Focus on language development and the demands of academic settings assessment and intervention strategies for children and adolescents Prerequisite SHS 565 or equivalent

SHS 574 Fluency Disorders and Treatment. 3 F

Phenomenology assessment and the effects of stuttering are presented followed by various treatment procedures for children and adults with stuttering Prerequisite H 431 or equivalent

SHS 575 Aphasia and Related Neurogenic Language Disorders. 3 S

Assessment and treatment of acquired neurogenic communication disorders Prerequisite SHS 567

SHS 576 Neuromotor Speech Disorders. 3 S

Evaluation and treatment of the dysarthria and apraxia of speech Emphasis on acquired adult disorders

SHS 577 Craniofacial Disorders of Communication. 3 S SS

Communication disorders related to anomalies of the craniofacial structures including rofacial clefting of the lip and palate Prerequisite SHS 31 or equivalent

SHS 578 Disorders of Voice. 3 S

Communication disorders related to dysfunction of the phonatory and resonance systems of voice production assessment and treatment Prerequisite SHS 310 or instructor approval

SHS 579 Feeding and Swallowing Disorders Across the Lifespan. 3 F

Focus on individuals across the age span who have feeding and/or swallowing disorders Assessment and treatment strategies are presented Prerequisite SHS 567

SHS 580 Clinical Practicum. 1 6 F S SS

Supervised practicum in audiology or speech language pathology. 1 hour staffing and 3 hours of direct contact per week per hour of credit May be repeated for credit Prerequisites student instructor approval student must not have previous admission status

SHS 581 Right Hemisphere Syndrome, Traumatic Brain Injury, and Dementia. 3 F

Study of the nature characteristics and clinical management of cognitive and communication impairments accompanying right hemisphere damage TB and dementia Prerequisite SHS 567

SHS 582 Differential Diagnosis of Communication Disorders. 3 S

Procedures for assessing speech language disorders in children and adults 3 hours lecture 2 hours lab Prerequisites SHS 250 and 310 and 465 and 567 or equivalents

SHS 584 Internship. 1 6 F S SS

Off campus selected experiences in audiology or speech language pathology May be repeated for credit Prerequisites SHS 58 student must consult with coordinator before registration

SHS 585 Articulation and Phonology: Assessment and Intervention. 3 S

Assessment and treatment of developmental articulation and phonological disorders Prerequisites SHS 250 and 310 or equivalents

SHS 591 Seminar. 3 F S SS

Selected topics equatorially offered.

a Autism and Pervasive Language Disorder

b Multiplying Handicapped Child

SHS 596 Aural Rehabilitation. 3 S

Approaches to aural rehabilitation in children and adults Introduction to educational audiology and assistive listening devices Prerequisite SHS 401 or 501 or equivalent

Women's Studies Program

Mary Logan Rothschild
Director

(EC A209) 480/965-2358

www.asu.edu/clas/womens_studies

CORE FACULTY

Professor: Rothschild,
Associate Professors: Ferraro, Hbner, Kobtz;
Assistant Professors: Klinger, Lind, Scheiner, Academc
Professional: Hopkins

AFFILIATED FACULTY

Anthropology

Professor: Koss-Chono; Associate Professor: Brandt,
Assistant Professor: Woitha

Art

Professors: Code, Magenta;
Associate Professors: Fahman, Schelf

Art History

Assistant Professor: Woitha

Chicana and Chicano Studies

Professor: Ruiz

Communication

Professor: Vaentne
Associate Professors: Carson, Nakayama
Assistant Professors: Fores, Kent

Education

Associate Professor: Guzzeti

Educational Media and Computers

Associate Professor: Mcsaac

English

Professors: Lightfoot, Ni sen, Rhodes, Rchard,
Associate Professors: Adams, DeLamotte, Gutierrez,
Horan, Morgan, Sensbar; Assistant Professors: McCabe,
Pritchard, Tohe; Lecturer: Obermeier

Exercise Science and Physical Education

Professor: Wells; Assistant Professor: Swan

Family Resources and Human Development

Associate Professor: Martin

Geography

Professor: Burns

Health Administration and Policy

Professor: Kronenfeld

History

Professors: Fuchs, Giffn, Lavrn, Rothschild, Ruiz, Warnicke;
Associate Professor: Stoner,
Assistant Professors: Gray, Guet, Hendricks

Justice Studies

Professor: Jurk; Associate Professors: Romero, Zatz;
Assistant Professor: Menjvar

Languages and Literatures

Professors: Ahern, Foster, Losse;
Assistant Professors: Cho, Gando,
Gruznska, Orch, Rees; Instructor: Goodman

Management

Associate Professor: Cook

Music

Associate Professor: Willamson

Nursing

Associate Professor: Kenney; Assistant Professor: Boychuk

Philosophy

Associate Professor: McGregor

Political Science

Associate Professor: Dantco

Psychology

Professors: Bernstein, Chassin, Eisenburg, Russo;
Associate Professor: Saenz

Psychology in Education

Professors: Hackett, Kerr; Associate Professor: Moore

Recreation Management and Tourism

Professor: Ason

Religious Studies

Assistant Professor: Fessenden

Social Work

Professor: Coudrou; Assistant Professor: Hurdle

Sociology

Professors: Gordon, Laner, Miller, Loess, Weitz;
Associate Professor: Benin; Assistant Professor: Agadjanian

Theatre

Professor: Knapp

The Women's Studies Program is an interdisciplinary university program housed in the College of Liberal Arts and Sciences. Information on faculty affiliation is provided for reference.

WOMEN'S STUDIES—B.A. OR B.S.

The B.A. or B.S. degree in Women's Studies consists of 45 semester hours, of which 33 must be taken from WST or WSH prefixes or from other prefixes designated as part of the major. The other 12 must be in closely related fields chosen in consultation with an academic advisor. At least 36 of the 45 semester hours required for the major must be completed in upper division courses. In addition, for the B.S. degree, students must complete six hours in statistics, computer science, or quantitative research methods. This sequence must be approved by the Women's Studies Program advisor.

Required Courses. Students must complete the following courses:

WST 100 Women and Society SB/C	3
or WST 301 Women in Contemporary Society SB/C	3
WST 377 Creation of Feminist Consciousness LI/C	3
WST 378 Contemporary Feminist Theory LI/C	3

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see General Studies page 85. For graduation requirements see University Graduation Requirements page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses" page 58.

WST 484 Internship	3
WST 498 PS: Theoretical Issues in Women's Studies L2	3
Total	15

Students must also complete two other courses: (1) an upper division course that provides a humanities or fine arts perspective on the lives and contributions of women, and (2) an upper division course on women in non Western societies or a course on minority or ethnic women in American society.

A list of approved courses is available each term in the program office.

No course may be used to satisfy more than one requirement.

Electives in Closely Related Fields. Majors must complete 12 hours of courses in fields closely related to women's studies, one of which must be an upper division course that provides a historical perspective on the lives and contributions of women. These courses may be used to satisfy the general education requirements in the College of Liberal Arts and Sciences.

MINOR IN WOMEN'S STUDIES

The Women's Studies minor consists of 18 semester hours. The following courses are required.

WST 100 Women and Society SB C	3
or WST 300 Women in Contemporary Society SB, C	3
An upper division course in feminist theory	3
Total	6

Twelve additional hours of approved women's studies courses must be taken after consultation with a women's studies advisor.

Students pursuing a minor must register at least one semester before graduation and are encouraged to meet with the women's studies academic advisor early in their course of studies

CERTIFICATE PROGRAM IN WOMEN'S STUDIES

The certificate program is equivalent to an interdisciplinary minor, consisting of 21 semester hours. Students pursuing a certificate must consult with the women's studies advisor. See "Women's Studies," page 333, for a description of the certificate program.

GRADUATE STUDIES

Although the Women's Studies Program does not offer a graduate degree, it is possible to pursue a graduate degree in some existing programs with a thesis or dissertation topic related to women's studies. Information on such programs can be obtained from the Women's Studies Program office

COURSES IN WOMEN'S STUDIES

Additional courses appear as Special Topics and vary semester to semester. A list of approved interdisciplinary courses that count toward the 36 hours of requirements for Women's Studies is available each term in the program office

WOMEN'S STUDIES (WSH)

WSH 413 Lesbian Culture: Images and Realities. (3 S)
Explores aspects of lesbian experience from sociological, psychological, historical, political and literary/critical perspectives. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval. *General Studies HU C*

WSH 464 Voices and Visions. (3 F, S)
Explores the contributions of visionary women in the humanities, varying from semester to semester. Repeat credit for different topics. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval. *General Studies HU C*

WSH 470 Women and Popular Culture. (3 S)
An interdisciplinary examination of how gender is constructed in popular culture forms. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval. *General Studies HU C*

WOMEN'S STUDIES (WST)

WST 100 Women and Society. (3 F, S)
Interdisciplinary introductory examination of critical issues in women's studies. Not open to students who have credit for WST 300. *General Studies SB C*

WST 300 Women in Contemporary Society. (3 F, S, SS)
Interdisciplinary examination of such topics as gender roles, work, education, sexuality, politics, health and law. Not open to students who have credit for WST 100. *General Studies SB, C*

WST 313 Women and Sexuality. (3 F, S)
Explores feminist theories about women's sexuality and the relationship of these theories and related research to women's experience. Lecture/discussion. Prerequisite: WST 100 or 300.

WST 372 Women in Judaism. (3 S)
A study of the legal, social and cultural status of Jewish women in various historical and contemporary societies. Credit awarded only for REL 373. *General Studies SB C*

WST 373 Latina/Chicana Issues. (3 F, S)
Course examines the roles Mexican American, Chicana and/or Latina immigrant women play in the social and political arena in the United States. Prerequisite: WST 100 or 300 or instructor approval. *General Studies SB C*

WST 375 Women and Social Change. (3 S)
Combines research and theory on a contemporary social problem with a community action experience focusing on women's social change initiatives. Lecture/discussion. *General Studies C*

WST 377 Creation of Feminist Consciousness. (3) F, S, SS
Explores the development of feminist theory from its roots to 1960. Prerequisite: WST 100 or 300. *General Studies L1 C*

WST 378 Contemporary Feminist Theory. (3 F, S, SS)
Contemporary feminist theories and exploration of the intersection of gender, race, ethnicity and class through critical analysis. Prerequisite: WST 100 or 300. *General Studies L1 C*

WST 380 Gender, Race, and Class. (3 SS)
Cultural diversity, class and gender issues in American social life are explored. Lecture/seminar analysis/papers and writing. *General Studies SB C*

WST 457 Women in Developing Countries. (3 F)
Economic, sociopolitical and demographic context for understanding women's roles related to health, family, work, education and community development in countries. Prerequisite: 6 hours of social science credit or instructor approval. *General Studies SB G*

WST 460 Women and the Body. (3 F)
An interdisciplinary look at how representations of woman as body permeate culture and affect a woman's sense of self. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval. *General Studies SB C*

WST 484 Internship. (1-3 A)
Practical experience to enhance the academic perspectives that emerge from women's studies instruction. Prerequisite: preapproval by internship coordinator required.

WST 498 PS: Theoretical Issues in Women's Studies. (3 A)
Reading and research on important theoretical issues in women's studies. *General Studies L2*

College of Nursing

Barbara Durand, Ed.D.
Dean



Nursing Building

Tim Trumble photo

Admission	434	College Degree Requirements	436
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PURPOSE

The faculty in the College of Nursing acknowledge their responsibility to health care consumers for the preparation of individuals who provide nursing care of professional quality through teaching, research, and service. The purpose of the College of Nursing is to provide educational programs that prepare professional nurses to meet the health care needs of individuals, groups, and communities. To achieve this purpose, the college offers undergraduate, graduate, and continuing and extended education programs. Within the context of a liberal education, the degree programs prepare professional nurses who

1. understand and respond to changing health and social needs and services;
2. influence nursing practice and health care through leadership and participation in professional and sociopolitical activities; and
3. utilize scientific knowledge to advance professional nursing practice.

The continuing education program provides opportunities for registered nurses (RNs) to improve and expand their nursing practice to meet the health care needs of various populations and to further their own professional development.

ORGANIZATION

The College of Nursing is organized around two major clinical divisions: adult health/parent-child nursing and community health/psychosocial nursing systems.

The college offers an undergraduate program leading to a Bachelor of Science in Nursing degree, a graduate program leading to an M.S. degree with preparation for advanced practice in nursing, and continuing and extended education opportunities for practicing RNs.

ADMISSION

Preprofessional Admission. Students are admitted into the College of Nursing as "prenursing" students. Admission to ASU as a prenursing student does not guarantee admission into the Professional Nursing Program. Admission to the professional program is competitive, with the greatest emphasis placed on prerequisite grade point average.

In addition to meeting the university requirements for admission, it is recommended that students complete one year each of high school chemistry and biology.

Prenursing students are required to seek academic advising each semester through the College of Nursing Student Services Office. This advising includes course planning as well as information regarding application materials and deadlines.

Professional Program Admission. Professional Nursing Program courses are offered at ASU Main and ASU West. Students are asked to specify location preference as part of the application process. Students are expected to complete the Professional Nursing Program on the campus assigned upon admission.

Prenursing students are eligible for consideration for admission to the Professional Nursing Program if they meet the following criteria:

1. regular admission to the College of Nursing;

2. good standing with ASU and the College of Nursing;
3. minimum prerequisite GPA of 2.75;
4. completion of designated prerequisite courses with earned grade of "C" or higher in each course;
5. completion of the application form;
6. submission of complete health history, physical examination results, and evidence of required immunizations; and
7. other required materials.

Admission is selective and based on available resources. Meeting the minimum prerequisite GPA does not ensure admission. All qualified applicants may not be admitted. Students admitted to the Professional Nursing Program will be required to meet the following criteria.

1. proof of CPR certification (Level C American Heart Association Health Care Provider);
2. proof of negative drug screen;
3. completion of all required immunizations; and
4. other required material.

Transfer Credits. While the university accepts transfer credit from other accredited institutions, all transfer credit may not apply toward a Bachelor of Science in Nursing (B.S.N.) degree. Students completing course work at a community college or university other than ASU should consult a College of Nursing academic advisor to plan an appropriate sequence of prenursing courses and to apply to the Professional Nursing Program. The college may not accept transfer credit (especially science) completed more than 10 years before the date of application.

Professional Program Transfer. Students requesting to transfer into the Professional Nursing Program with advanced standing may be required to submit letters of recommendation. Any student enrolled in good standing at any accredited/approved baccalaureate school of nursing currently or within the past two years may apply for admission into the Professional Nursing Program. To be considered for admission to the Professional Nursing Program, students must first be admitted to ASU (see "Undergraduate Admission," page 60). Transfer students must also meet all Professional Nursing Program admission requirements.

Admission of Registered Nurses (RNs). All RNs are admitted as prenursing students. Options available to RN students include RN to B.S.N. and RN to M.S. Several alternatives are available for RNs to facilitate progress toward a degree, including credit by examination and transfer of previously completed nursing courses. RN students must consult with an advisor in planning their programs of study. Refer to "Admission," page 434, for professional program admission criteria. In addition, an RN must submit a photo copy of his or her current license to practice nursing as an RN in Arizona. RN students are responsible for adhering to Arizona State Board of Nursing Rules and Regulations.

Readmission to the Professional Program. Students who have not been in continuous enrollment must file a petition requesting readmittance to the Professional Nursing Program and must provide the following documents:

1. proof of current enrollment or readmission to ASU and the College of Nursing;

2. transcripts from all colleges attended, and
3. all other admission requirements as outlined under "Admission," page 434

Arizona State Board of Nursing Requirement. To be eligible to write the National Council Licensure Examination for Registered Nurses (NCLEX RN), a student must have a high school diploma or GED certificate as well as proof of graduation from an accredited nursing program. Applicants are advised that a history of a felony must be reported to the Arizona State Board of Nursing, and may influence licensure eligibility.

College Health Requirements. Students enrolled in the Professional Nursing Program are responsible for fulfilling the requirements of the health policies of the College of Nursing. The student is responsible for providing proof to the College of Nursing Student Services Office of having met these requirements before enrollment in the Professional Nursing Program. These health policies include the following requirements:

1. completed College of Nursing Health History Inventory and Record of Physical Examination,
2. proof of measles (rubeola), mumps, and rubella immunization (MMR),
3. proof of annual tuberculosis screening,
4. completed series of Hepatitis B vaccine,
5. current American Heart Association Level C CPR Certification,
6. proof of tetanus, diphtheria immunization (TD);
7. proof of Varicella (chicken pox) immunization,
8. proof of negative drug screen; and
9. annual flu vaccine is recommended.

A Nursing student may not participate in any clinical experience without meeting these requirements

Essential Functions. Students admitted to the Professional Nursing Program will be expected to meet the Essential Functional Abilities of the Undergraduate Nursing Student. Essential functions for this program include gathering data through the senses (hearing, seeing, etc.), synthesizing information from a variety of sources, making decisions regarding patient care, and performing necessary physical and mental activities to ensure safe care. For complete details, contact an advisor in the Student Services Office at NUR 108 or call 480 965 2987.

ASU Health Requirements. See "Undergraduate Admission," page 60

Professional Liability Insurance. It is highly recommended that students carry their own personal professional liability insurance when enrolled in clinical nursing courses.

Health and Accident Insurance. It is strongly recommended that all students carry their own health and accident insurance. Some clinical agencies require students to have current health insurance. See the *Undergraduate Student Handbook*. Each student is personally responsible for costs related to any accident or illness during or outside of school activities.

Automobile Insurance. Students are required by state law to carry automobile insurance. Students are responsible for transportation to and from clinical sites. Extensive travel may be required for selected clinical experiences

ADVISING

Although the College of Nursing provides academic advising, *it is ultimately the responsibility of each student to fulfill academic and program requirements.* Professional advisors are available by appointment in the College of Nursing Student Services Office, 480 965 2987. These advisors assist students with program planning, registration, preparation of needed petitions, verification of graduation requirements, referrals to university and community resources, and career planning.

Student responsibilities include following university guidelines regarding submission of transcripts from all colleges other than ASU and obtaining the necessary signatures or computer verifications required by the university.

Mandatory Advising. All prenursing students are required to meet with an academic advisor before registering for each semester of classes. All students on probation are required to meet with an advisor every month. In general, all students are encouraged to meet with an advisor each semester.

Program of Study. A program of study must be filed during the second semester of enrollment in the Professional Nursing Program and before registration for Professional Nursing Program course level Junior Two (JR2) courses.

Student Employment. Students intending to pursue the Professional Nursing Program on a full-time basis should expect to spend approximately 45 hours per week in class and study. It is suggested that any additional activities or employment be kept at a minimum.

DEGREES

Bachelor of Science in Nursing

The completion of the curriculum in Nursing leads to a Bachelor of Science in Nursing (B.S.N.) degree. In the continuing tradition of the college to be at the forefront in nursing education, curriculum revisions are in process. See an advisor for current program information. The purpose of the program is to prepare beginning professional nurses who possess the theoretical foundation and the clinical competence to function in various health care settings. The graduate is prepared to deliver nursing care services to individuals, families, population groups, and communities. The undergraduate program provides a foundation for graduate studies in nursing at the master's level.

Program objectives for the undergraduate curriculum are directed toward preparation of graduates with generalist abilities. Based on theoretical and empirical knowledge from nursing, the humanities, and physical, biological, and behavioral sciences, graduates are prepared to

1. use theoretical knowledge from the sciences, humanities, and nursing as a base for critical thinking in professional nursing practice and to develop understanding of person, health, environment, and nursing,
2. apply nursing process to provide safe, competent, and effective nursing care utilizing principle-based commu

- ication, technical psychomotor, teaching, management, and therapeutic skills,
- 3 provide comprehensive therapeutic nursing care in partnership with individuals, families, groups, and communities, including those who are culturally diverse and vulnerable;
- 4. demonstrate professional practice which focuses on health promotion, health restorations, health maintenance, and illness care from a holistic perspective,
- 5. participate in critically evaluating and applying research findings to nursing practice and in identifying nursing research problems,
- 6 demonstrate values and behavior consistent with the culture of professional nursing;
- 7 demonstrate personal and leadership characteristics appropriate for professional nursing practice;
- 8 demonstrate responsibility and accountability for professional nursing practice;
- 9 collaborate with nurses, other health care providers, and clients in the delivery of holistic care that is responsive to changing needs and societal trends, and
- 10 participate in evaluating current nursing and health care services and trends, and in identifying future health care needs.

NURSING—M.S.

The faculty in the College of Nursing offer a program leading to an M.S. degree in Nursing with concentrations in adult health nursing, community health nursing, community mental health/psychiatric nursing, family health nursing, nursing administration, women’s health, and parent child nursing with options in childbearing family and nursing of children. The program requires a minimum of 40 semester hours with an earned grade of “B” or higher in all courses in the program of study. Students in the nurse practitioner options are required to complete additional semester hours. Requirements for this program are described in the *Graduate Catalog*. Persons interested in applying for admission to the program should write to the Graduate College for a *Graduate Catalog* and application form (see “Admission to the Graduate College,” page 305) and contact the College of Nursing Student Services Office

CERTIFICATE PROGRAM

A Post Master’s Family Nurse Practitioner certificate is available. For more information, see “Certificates,” page 110.

UNIVERSITY GRADUATION REQUIREMENTS

In addition to fulfilling college and major requirements, students must meet all university graduation requirements. For more information, see “University Graduation Requirements,” page 81

First-Year Composition Requirement

Completion of both ENG 101 and 102 or ENG 105 or equivalent with a grade of “C” or higher is required for graduation from ASU in any baccalaureate degree.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see General Studies, page 85. For graduation requirements, see “University Graduation Requirements,” page 81. For an explanation of additional non-business courses offered but not listed in this catalog, see Classification of Courses, page 58.

General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy a university requirement of a minimum of 35 semester hours of approved course work in General Studies, as described in the “General Studies” section, page 85. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses. Many of the university General Studies requirements may be met through completion of College of Nursing course requirements. See an academic advisor for details. General Studies courses are listed in the “General Studies” section, page 87.

COLLEGE DEGREE REQUIREMENTS

College requirements for graduation are consistent with those of the university. The Bachelor of Science in Nursing degree requires 120 semester hours.

Prerequisite Course Requirements

The following courses must be completed before enrolling in the Professional Nursing Program. Completion of these courses does not ensure admission to the Professional Nursing Program.

ASB 202 Ethic Relations in the United States <i>C/H</i>	3
BIO 201 Human Anatomy and Physiology I <i>S2</i>	4
BIO 202 Human Anatomy and Physiology II.....	4
CDE 232 Human Development <i>SB</i>	3
CHM 101 Introductory Chemistry <i>S1/S2</i>	4
ENG 101 First Year Composition.....	3
ENG 102 First Year Composition.....	3
FON 241 Human Nutrition.....	3
HCR 210 Clinical Health Care Ethics.....	3
HCR 220 Health Care Organizations.....	3
HCR 230 Culture and Health.....	3
HCR 240 Human Pathophysiology.....	4
MAT 117 College Algebra <i>V</i>	3
MIC 205 Microbiology <i>S2</i>	3
MIC 206 Microbiology Lab <i>S2</i>	1
PGS 101 Introduction to Psychology <i>SB</i>	3
PHI 103 Principles of Sound Reasoning <i>L1/HU</i>	3
Elective: Statistics N2.....	3
Total prerequisites.....	56

MAJOR REQUIREMENTS

The Nursing major requirements are completed after admission to the Professional Nursing Program.

Nursing Core Courses 1999-2000

Junior Year	
First Semester	
NUR 341 Theory I: Health Integrity.....	4
NUR 351 Introduction to Pharmacology.....	2
NUR 361 Professional Development I.....	3
NUR 381 Nursing Practice I.....	7
Total.....	16
Second Semester	
NUR 342 Theory II: Health Integrity and Assessments.....	5
NUR 362 Professional Development II: Nursing Research <i>L</i>	3
NUR 382 Nursing Practice II.....	8
Total.....	16

Senior Year

First Semester

NUR 441 Theory III: Health Integrity and Alterations	6
NUR 461 Professional Development III, The Art of Nursing	3
NUR 481 Nursing Practice III	7
Total	16

Second Semester

NUR 442 Theory IV: Health Integrity and Alterations	3
NUR 443 Theory V: Leadership and Management	3
NUR 462 Professional Development IV	2
NUR 482 Nursing Practice IV	8
Total	16
Nursing core total	64

Each semester of courses is prerequisite to subsequent semesters. See an advisor for current program information.

ACADEMIC STANDARDS

Students are admitted into the College of Nursing as prenursing students and are subject to the general standards of academic good standing at the university. However, students who maintain standards of academic good standing do not necessarily qualify for admission into the Professional Nursing Program.

Consideration for admission into the Professional Nursing Program is contingent on achieving at least a "C" in all prerequisite courses and earning a minimum GPA of 2.75 in prerequisite courses. In addition, a grade of "C" or higher is required in all course work for the degree.

Once admitted into the Professional Nursing Program, students are allowed only two nursing course failures within the program. The third failure in a nursing course leads to an automatic disqualification from the College of Nursing.

Probation and/or disqualification is in accordance with university policies. Academic dishonesty is not tolerated in any course and is subject to specific College of Nursing policies and procedures.

GRADING POLICY FOR NURSING COURSES

Within the undergraduate program, grades are assigned to reflect levels of achievement in relation to course objectives. Students who do not complete a required nursing course satisfactorily, receiving a grade of "D" or "E" (failing) or a mark of "W" (withdrawal), are not eligible to progress in the Professional Nursing Program. A student who withdraws from a course with a failing grade reported as an "E3" or "E9" is considered to have failed the course. Students who fail a given course twice are disqualified from the College of Nursing. Students who earn a total of three failures in the Professional Nursing Program courses are also disqualified. A required nursing course may be repeated only once.

Any petition for curriculum adjustment, course substitution, overload, readmission to a nursing course, or readmission to the Professional Nursing Program must be approved by the College Standards Committee.

Withdrawals in accordance with the withdrawal policy of the university. Students who withdraw from required clinical nursing courses must complete the Interruption in Curricular Progress on form. The form is completed by the student in conjunction with the faculty of record for the course(s). Reentry requires advising assistance. In addition,

students are responsible for completing the university withdrawal procedure.

An incomplete in a required nursing course must be satisfactorily removed before progression in the Professional Nursing Program is permitted. A grade of "I" is not allowed in clinical courses. See "Grading System," page 73 for university policy.

Audited courses are not accepted as course credit in the minimum 120 semester hour requirement for graduation.

STUDENT RESPONSIBILITIES

Health. Students in the College of Nursing who exhibit or demonstrate a lack of physical and mental health necessary to function successfully as a professional nurse may be required to complete a health examination and have the results made available to the College Standards Committee. Students whose health, behavior, and/or performance have been questioned are reviewed for continuation in nursing courses by the College Standards Committee. The student may appear in person before the committee and personally present information relevant to the committee's review.

Additional information may also be presented in writing without making a personal appearance.

Professional. Students are held to the professional standards reflected in the American Nurses' Association Code for Nurses. Professional behavior and appearance are required during all nursing course activities.

Student Transportation. Students are responsible for their own transportation to and from health agencies and other selected experience settings, such as home visits to clients. Extensive travel may be required for selected clinical experiences.

Clinical Comprehensive Assessment Test. In preparation for the National Council Licensure Examination for Registered Nurses (NCLEX-RN), all senior students, except RN students, are required to take a comprehensive assessment test before graduation.

Laboratory Fees. In several nursing laboratory and clinical courses, students are provided an opportunity to practice and perfect nursing skills before contact with clients. These courses require an extensive use of equipment and supplies from the college Learning Resource Center. Accordingly, students are assessed a fee for the following courses: NUR 314 for RNs, 330, 427, 428, 429, and 430. Consult with an advisor for information on laboratory fees for Nursing courses in the revised curriculum. Lab fees may be assessed on other courses. See the current *Schedule of Classes*.

SPECIAL PROGRAMS

Honors Program. The Nursing Honors Program provides opportunities for academically talented nursing students to engage in educational enrichment opportunities. The program focuses on students in the Professional Nursing Program; however, opportunities are available in lower division nursing courses. For students pursuing upper division honors work, this enriched learning experience begins in the junior year. Honors course work, consisting of at least 18 hours of upper division honors credit, offers a challenging curriculum. Honors students are guided to complete honors credit in courses that complement their academic and career

goals. Students interested in pursuing the Nursing Honors Program are encouraged to seek advisement in the College of Nursing Student Services Office. Once admitted to the Professional Nursing Program, students receive advisement from the honors coordinator.

For more information, call 480 965 2987 or stop by the Student Services Office at NUR 108. Interested students should also contact the University Honors College at 480 965 2359.

ASU West. ASU West hosts upper division Professional Nursing Program courses.

Continuing and Extended Education Program. The Continuing and Extended Education Program presents a variety of credit and noncredit offerings at ASU Main, ASU West, and other off campus locations. These offerings are designed to assist practicing professional nurses in maintaining and enhancing their competencies, to broaden their scientific knowledge base, and to improve their skills in adapting to the changing health care environment. Programs are organized in response to both the health care needs of the population and the learning needs of nurses engaged in a variety of professional roles and clinical specialties. Workshops, conferences, short evening courses, and special programs are offered at times convenient to the working professional. See "Post Master's Family Nurse Practitioner Certificate Program," page 111, and "Fees, Deposits, and Other Charges," page 47, for a description of the certificate program. Some offerings are multidisciplinary and are open to non RNs. For descriptions of current continuing and extended education offerings, contact the Continuing and Extended Education Program, College of Nursing at 480 965 7431 or visit www.asu.edu/nursing/ceep.html on the World Wide Web.

Community Health Services. The College of Nursing administers a Community Health Services Clinic located in Scottsdale, Arizona. Nurse practitioners provide primary care with an emphasis on promotion of wellness to families and individuals of all ages. Students in the College of Nursing may receive health care through the clinic for a fee. Students may obtain the physical examination required for admission to the Professional Nursing Program at the clinic's facility. The facility also serves as a learning laboratory for both master's and baccalaureate Nursing students.

GENERAL INFORMATION

Student Services. The Student Services Office in the College of Nursing provides academic advising, general advising, and referral to university resources. The staff of the Student Services Office is available to help students with a variety of concerns related to academic or personal issues. Prospective students wanting more information on College of Nursing programs or wanting to schedule an advising appointment should contact the College of Nursing Student Services Office at 480 965 2987.

Scholarship and Financial Aid. For information regarding scholarships and loans, see "Financial Aid," page 51. Information about scholarship and loan funds for Nursing students may be obtained from the Student Financial Assistance Office or the College of Nursing Student Services Office.

Learning Resources. The Learning Resource Center (LRC) contains a well supplied nursing laboratory, audiovisual media, a variety of computers, and computer software related to nursing and health care.

Clinical Facilities. Learning experiences with patients/clients and families are provided under the supervision of qualified faculty with the cooperation of a variety of federal, state, county, private health, and other agencies. The College of Nursing has contracts with more than 200 different agencies in the Phoenix metropolitan area and also operates its own unique nurse managed clinic in a community setting. Various clinical laboratory facilities are available to students in this essential component of the program.

Student Activities. All ASU students are members of the Associated Students of ASU (ASASU) and participate in campus activities of interest to them. The student government of the university, ASASU, has a strong presence and offers a variety of services and activities. It is the official representative of the student body in matters of governance and budgeting.

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) 480/965-3244
www.asu.edu/nursing

PROFESSORS

DURAND, KENNEY, PERRY THURBER

ASSOCIATE PROFESSORS

ADAMS, BAGWELL, BRILLHART, DRKSEN GALE,
SMEURT, KLEEN, KOMNEN CH, MATTSON MOORE
PRIMAS ROOT SHEEHY

ASSISTANT PROFESSORS

ALPERS BOYCHUK, CESAROTT CLARKE-STEFFEN
GARRITY, LONG, MCCARTHY PICKENS, RODRIGUEZ,
SEHESTED SOUSA ZUNKEL

CLINICAL ASSOCIATE PROFESSORS

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

CLINICAL ASSISTANT PROFESSORS

P. JOHNSON, W. JOHNSON MORRIS,
SHEARMAN WOTRNG

INSTRUCTOR

ROSDAHL

HEALTH CARE RELATED (HCR)

HCR 210 Clinical Health Care Ethics. 3 F S SS
Health care ethics emphasizing analysis and ethical decisions on making at clinical and health policy levels for health care professionals. Prerequisites: ENG 101 102

HCR 220 Health Care Organizations. 3 F S
Overview of United States health care delivery systems financial health policy basic principles of budgeting cost benefit analysis, and resource management. Cross-listed as HSA 220. Credit satisfied only for HCR 220 or HSA 220. Prerequisites: ENG 101 102

HCR 230 Culture and Health. 3 F S
Cultures of diverse groups and healthiness. Cross-cultural communication, awareness of own cultural influences and generous and alternative healing practices. Prerequisite: ASB 2 2

HCR 240 Human Pathophysiology. 4) F, S
Chemical, biological, biochemical and psychosocial processes used in study of structural and functional alterations in health with selected therapeutic. Prerequisites: BIO 201 and 202 and M C 205 and 206 or equivalent

NURSING (NUR)

NUR 308 Pathophysiology. (3 F S)

Effective through fall 1999
Focuses on concepts explaining alterations in health states. A psychophysiological viewpoint provides the unifying framework. Prerequisites: CHM 231 and 235 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

NUR 329 Psychiatric/Mental Health Nursing. 6 F S

Effective through fall 1999
Guided nursing experiences with individual and groups based on the theory and research. 3 hours lecture, 9 hours lab. Prerequisite: CDE 232 (or equivalent). Prerequisite: 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 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 organizational 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 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 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. Prerequisite: 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. Prerequisite: NUR 427

NOTE: For the General Studies requirement courses and codes (such as L1, N3 C, and H) see 'General Studies, page 85. For graduation requirements see 'University Graduation Requirements' page 81. For an explanation of additional non-business courses offered but not listed in this catalog see 'Classification of Courses' page 58



Kaitlin Palfy held by ASU Health Services Clinic nurse Bonnie Bergstrong

Tim Trumble photo

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 341 Theory I: Health Integrity. (4) F, S
Effective spring 2000.

Concepts related to health integrity with focus on individual clients. Prerequisite: admission to professional Nursing program. Pre- or corequisites: NUR 351, 361, 381.

NUR 342 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. Prerequisite: Junior I courses. Pre- or corequisites: NUR 362, 382.

NUR 351 Introduction to Pharmacology. (2) F, S
Effective spring 2000.

Foundations of pharmacological interventions. Prerequisite: admission to professional Nursing program.

NUR 361 Professional Development I. (3) F, S
Effective spring 2000.

Introduction to professional nursing roles and responsibilities. Prerequisite: admission to professional Nursing program.

NUR 362 Professional Development II: Nursing Research. (3) F, S
Effective fall 2000.

Introduction to concepts and issues in nursing research. Emphasis on quantitative and qualitative research processes. examination of nursing research literature. Prerequisite: Junior I. *General Studies: L2.*

NUR 381 Nursing Practice I. (7) F, S
Effective spring 2000

Application of health assessment, nursing process, and basic skills to promote and maintain health integrity of individual clients. Lab, clinical experience. Prerequisite: admission to professional Nursing program. Pre- or corequisites: NUR 341, 351, 361.

NUR 382 Nursing Practice II. (8) F, S
Effective fall 2000.

Application of nursing process with selected individuals, families, and groups experiencing alterations in health integrity. Lab, clinical experience. Prerequisite: Junior I. Pre- or corequisites: NUR 342, 362.

NUR 394 ST: RN Mobility I. (3) F, S
Effective fall 1999.

Professional development course focusing on historical, ethical, cultural, and theoretical basis for professional nursing practice in health care organizations. Prerequisite: RN license.

NUR 394 ST: RN Mobility II. 3 F S*Effective spring 2000.*

Concepts related to health integrity with focus on individual clients
Prerequisite: RN cense

NUR 441 Theory III: Health Integrity and Alterations 6 F S*Effective spring 2001*

Concepts related to health integrity and alterations with focus on individual families, groups, aggregates, and communities. Prerequisite: Jun or . Pre- or corequisites: NUR 461, 481

NUR 442 Theory IV: Health Integrity and Alterations. 3 F, S*Effective fall 2001*

Advanced concepts related to health integrity and alterations that integrate with focus on selected client populations. Prerequisite: Sen or . Pre- or corequisites: NUR 443, 462, 482

NUR 443 Theory V: Leadership and Management. 3 F S*Effective fall 2001*

Selected theories and concepts of organizational management leadership with focus on nursing management and leadership in health care organizations. Prerequisite: Sen or . Pre- or corequisites: NUR 442, 462, 482

NUR 450 School Nursing Practice. (3 SS

Role of the professional nurse in planning, implementation, and evaluation of the school health program. Prerequisite: RN cense.

NUR 451 Health Assessment of the Child. 3 SS

Maintenance of good health in the school-aged child using health assessment and promotion techniques. Lecture/discussion, self-study demonstration. Prerequisite: RN cense

NUR 452 Nursing of Children with Developmental Disabilities. (3) SS

Congenital and acquired physical and mental developmental disorders including the evaluation of child and family and community resources. Prerequisite: RN cense

NUR 461 Professional Development III: The Art of Nursing. 3 F, S*Effective spring 2001*

Exploration of the aesthetic, ethical, and personal patterns of nursing nurses. Prerequisite: Jun or

NUR 462 Professional Development IV. 2 F S*Effective fall 2001*

Focus on role transition to professional nursing. Prerequisite: Sen or I

NUR 481 Nursing Practice III. 7 F S*Effective spring 2001*

Application of concepts and clinical practice related to health integrity and alterations with focus on individual families, groups, aggregates, communities. Lab, clinical experiences. Prerequisite: Jun or . Pre- or corequisites: NUR 441, 461

NUR 482 Nursing Practice IV. 8 F S*Effective fall 2001*

Capstone course with focus on synthesis and application of patterns of knowing and leadership management concepts in collaborative nursing practice. Lab, clinical experiences. Prerequisite: Sen or . Pre- or corequisites: NUR 442, 443, 462

NUR 494 ST: 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 of 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

NUR 501 Advanced Adult Health Assessment/Promotion. 3 F

Designed to expand adult health assessment/promotion skills through knowledge strategies essential for development and interpretation of data. Lecture/demonstration. Prerequisites: college core courses except thesis/project under graduate health assessment course. Corequisite: NUR 580

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

Includes theory research that guides the management/maintenance of adults with chronic health alterations. Psychophysiological alterations of systems emphasized. Lecture/semnar. Prerequisites: NUR 501, 580, admission to the graduate Nursing program. All flexible core courses except thesis/project

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

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

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

Students identify and analyze theoretical perspectives and models guiding advanced community health nursing practice. Lecture/semnar. Prerequisite: a graduate program core course. Corequisite: NUR 580

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

Drawing from the internships, students critically examine the application of theory to advanced community health nursing/public health practice. Lecture/semnar. 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 of mental health assessments. Lecture/semnar. Prerequisite: a graduate program core course.

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

Analysis of issues, theories, and research in 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 holistic nursing mode. Semnar. 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/semnar. Prerequisite: a core and flexible courses except thesis 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, semnar. 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/semnar. 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: a graduate program core course. Corequisite: NUR 58

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. Semnar/case study. Prerequisite: a graduate program core course

NUR 544 Nursing Administration Theory II (1 3 S

Synthesis of knowledge from previous courses to develop advanced nursing research. Analysis of resource and quality management and informatics. Lecture, semnar. Prerequisite: NUR 542

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H) see "General Studies," page 85. For graduation requirements see "University Graduation Requirements," page 81. For a description of additional minor courses offered but not listed in this catalog, see "Classification of Courses," page 58.

NUR 551 Theoretical Foundations of Advanced Practice Nursing. 3 F S

Designed to facilitate student experiential 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 organizational and financial service delivery and trends 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 development, periods throughout the life span. Biological and health cognitive, psychosocial, and sociocultural influences are analyzed. Lecture/discussion. Prerequisite: admission to the graduate Nursing program or instructor approval.

NUR 554 Population-Based Health Care. 3 F S

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

NUR 558 Advanced Pediatric Health Assessment. 2 S

Expansion of basic health assessment skills and development of clinical problem-solving skills for advanced practice nurses. Assessments of infants, children, and adolescents included. Lecture/lab. Prerequisites: admission to the graduate Nursing program, undergraduate health assessment within the last five years.

NUR 559 Advanced Health Assessment. 3 S

Expansion of basic health assessment skills and development of clinical problem-solving skills for advanced practice nurses. Assessments of infants, children, adolescents, and adults included. Lecture/lab. Prerequisites: admission to the graduate Nursing program, undergraduate health assessment within 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 sub-components 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 core specialty 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 core specialty course. Utilizing knowledge from previous courses to formulate therapeutic promotion, management, and maintenance for individuals 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 pathologic 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 pattern of heredity by cellular differentiation and 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 theoretical 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

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 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 theoretical concepts and principles such as health promotion, health management, health maintenance, teaching, management, and special clinical uses.

NUR 580 Advanced Nursing Practicum I, II. 2-6 F S

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

- Adult Health Nursing
- Community Health Nursing
- Community Mental Health/Psychiatric Nursing
- Family Health Nursing
- Nursing Administration
- Parent/Child Nursing with the Tracks 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 in adult physiology/care 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 ST: Special Topics. 2-4 N

Special study including issues, health care and organizations, management in nursing, ethical issues, and clinical nurse specialties. 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.

College of Public Programs

Anne L. Schneider, Ph.D.
Dean



Stauffer Communications Building

Tim Trumble photo

Department of Communication	448	School of Public Affairs	461
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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 six 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
- School of Social Work
- 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 Web site at 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 "Undergraduate Admission," page 60. 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. On January 1, 1999 the School of Social Work officially became a part of the College of Public Programs. In order to accommodate the smooth transition of the school into the college, major status admission requirements and other college degree requirements established by the College of Public Programs will not apply to the School of Social Work during the 1999–00 academic year but will be phased in during subsequent years. All School of Social Work admission and degree requirements for the 1999–2000 academic year are described in this catalog (see "School of Social Work" page 465).

Entry to any undergraduate academic unit of the college with status as a major requires:

1. the completion of at least 56 semester hours with a minimum cumulative GPA of 2.5),
2. the university First Year Composition requirement and the university numeracy requirement (see "University Graduation Requirements," page 81); and
3. the College of Public Programs writing competence, communication, and computer requirements (see "College Degree Requirements," page 445).

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 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, WILSON 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 which a student can register is 18 semester hours unless an overload

College of Public Programs Baccalaureate Degrees and Majors

Major	Degree	Administered by
Broadcasting Emphases: broadcast journalism, business management	B.A.	Walter Cronkite School of Journalism and Telecommunication
Communication	B.A., B.S.	Department of Communication
Journalism Emphases: news editorial, public relations, visual journalism	B.A.	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
Social Work	B.S.W.	School of Social Work

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. See "College of Public Programs Baccalaureate Degrees and Majors" table

GRADUATE PROGRAMS

Master's degree programs are offered by all of the academic units of the College of Public Programs and three of the units offer doctoral degrees. See the "College of Public Programs Graduate Degrees and Majors" table, page 446.

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.

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. 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 University First Year Composition Office 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 "General Studies," page 85, and the current *Schedule of Classes*. 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 88

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 SB	3
COM 225 Public Speaking LI	3
COM 230 Small Group Communication SB	3
COM 241 Introduction to Oral Interpretation LI/HU	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.

College of Public Programs Graduate Degrees and Majors

Major	Degree	Administered by
Communication	M.A.	Department of Communication
Communication	Ph.D.	Department of Communication
Concentrations: communicative development, intercultural communication, organizational communication		
Justice Studies	M.S. ¹	School of Justice Studies
Justice Studies	Ph.D. ²	Committee on Law and Social Sciences
Concentrations: criminal and juvenile justice; dispute resolution; law, justice, and minority population; law, policy, and evaluation. women, law, and justice		
Justice Studies	J.D./Ph.D. ³	Committee on Law and Social Sciences/College of Law
Mass Communication	M.M.C.	Walter Cronkite School of Journalism and Telecommunication
Public Administration	M.P.A.	School of Public Affairs
Concentrations: public information management, public management, public policy analysis and evaluation, urban management and planning		
Public Administration	D.P.A.-	Committee on Public Administration
Recreation	M.S.	Department of Recreation Management and Tourism
Concentrations: outdoor recreation, recreation administration, social/psychological aspects of leisure, and tourism and commercial recreation		
Social Work	M.S.W., Ph.D.	School of Social Work

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.

² This program is administered by the Graduate College. See "Graduate College," page 311.

³ 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.

Non-English 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 non-English language under one of the B.A. options. Proficiency is defined as completing the second semester intermediate level, or higher, of a non-English 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

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 311 Fundamentals of Management Communication LI	3
ENG 215 Strategies of Academic Writing LI	3
ENG 216 Persuasive Writing on Public Issues LI	3
ENG 277 Writing Reflective Essays LI	3
ENG 218 Writing about Literature LI	3
ENG 301 Writing for the Professions LI	3
JRN 201 Journalism Newswriting LI	3

The writing competence course may be counted as fulfilling the university General Studies literacy and critical inquiry (LI) 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.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see General Studies page 85. For graduation requirements, see University Graduation Requirements page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses" page 58.

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 registration 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. However, in order to achieve major status in the undergraduate degree programs in the college, students must have a cumulative GPA of 2.50 or higher 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 480/965 1034.

SPECIAL PROGRAMS**University Honors College**

The College of Public Programs cooperates with the University Honors College, which affords superior undergraduate 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 in the "University Honors College" section, page 36.

For more information, students should contact the College Student Services Office, WILSN 203 (480 965 1034), and the University Honors College.

College of Public Programs Council

The College of Public Programs Council is a unit of Associated Students of Arizona State University (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.

Nonprofit Leadership and Management Program

Funded by a grant from WK Kellogg Foundation, the Nonprofit Leadership and Management Program is established to expand undergraduate and graduate curricula in nonprofit organization education. The curriculum builds on the American Humanics undergraduate certification program offered through the Department of Recreation Management and Tourism.

Under development within the Nonprofit Leadership and Management Program are a graduate certificate program and a center that will provide technical assistance to nonprofits, support research projects for faculty and students, and convene a variety of educational opportunities for nonprofit leaders and managers.

For more information, contact Dr. Robert Ashcraft, director, 480 965 2971.

American Indian Studies Program

The American Indian Studies Program is a multidisciplinary program that emphasizes the political and cultural history of the various American Indian peoples of the United States. Course work focuses on the cultures, arts, history, and contemporary experiences of the various American Indian nations. The curriculum also concentrates on the practical application for professional career development, preparation for advanced degree programs, and preparation for service to Indian governments and reservations. It emphasizes scholarly expertise in selected fields of study and its practical application to community service.

For more information, contact Dr. James Riding In, acting director, at 480 965 3634.

AMERICAN INDIAN STUDIES (AIS)

AIS 194, 294, 394, 494 ST: Special Topics.

AIS 484 Internship.

AIS 498 PS: Pro-Seminar.

AIS 499 Individualized Instruction.

Asian Pacific American Studies Program

The Asian Pacific American Studies Program is an interdisciplinary undergraduate program that examines the experiences of Asian Pacific Americans within the United States, particularly in the Southwest. A certificate program offers courses that provide students with opportunities to think critically about interethnic cooperation and conflict. The program integrates teaching, research, and community service.

For more information, contact Dr. Thomas K. Nakayama, program director, at 480 965 5085.

ASIAN PACIFIC AMERICAN STUDIES (APA)

APA 194, 294, 394, 494 ST: Special Topics.

APA 484 Internship.

APA 498 PS: Pro-Seminar.

APA 499 Individualized Instruction.

Center for Urban Inquiry

The Center for Urban Inquiry is a liaison between ASU and the public. The center's mission is to examine the unique features of the new urban West, particularly the intersections of growth and development with local participation. By harnessing the unique resources of the university, the center engages in partnerships to increase the inclusion of urban residents.

Center programs include research and transformative service learning experiences which give students credit for community service projects.

For more information, contact Dr. Michael Musheno, director, 480 965 9216.

College of Public Programs

The academic units within the College of Public Programs may use the CPP prefix for course offerings that cross disciplinary boundaries.

COLLEGE OF PUBLIC PROGRAMS (CPP)

CPP 194, 294, 394, 494 ST: Special Topics.

CPP 484 Internship.

CPP 498 PS: Pro-Seminar.

CPP 499 Individualized Instruction.

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 ST: Special Topics.

Department of Communication

Jess K. Alberts

Chair

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Fax 480/965-4291

www.asu.edu/copp/communication

PROFESSORS

ARNOLD, BANTZ, JAN, KASTENBAUM,
PETRONIO, VALENTE

ASSOCIATE PROFESSORS

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

ASSISTANT PROFESSORS

DAVIS, TRETHERWAY

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 "Admission," page 444, 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**

Students can choose from two baccalaureate options, each of which requires a minimum of 42 hours of Communication course work. The B.A. option requires an additional six semester hours of upper division related area course work or a minimum of six hours of a non-English language at the intermediate level (e.g., SPA 201 and SPA 202). This option also requires one of the capstone courses for a letter grade—COM 404, 407, or 484—to total 51 hours. The B.S. option requires a General Studies N2 (sta

tistics) course, COM 408, and one of the following capstone courses: COM 404 or 407 for a total of 31 hours.

Each option requires that students take four core courses (COM 100, 207, 225, and 308) plus 15 hours (five courses) where introductory courses are paired with advanced courses described below.

Students must choose three of the following three-hour courses for a total of nine hours:

- COM 110 Elements of Interpersonal Communication *SB* 3
or COM 310 Relational Communication 3
- COM 241 Introduction to Oral Interpretation *L1/HU* 3
- COM 250 Introduction to Organizational Communication *SB* 3
- COM 263 Elements of Intercultural Communication *SB, C/G* 3
- COM 321 Rhetorical Theory and Research *L2/HU, H* 3

Students must then match two of the three courses selected above with the corresponding 400-level courses; the last two digits of the course numbers match from the following list for a total of six hours:

- COM 410 Interpersonal Communication Theory and Research *SB* 3
- COM 421 Rhetoric of Social Issues *HU* 3
- COM 441 Performance Studies *HU* 3
- COM 450 Theory and Research in Organizational Communication *SB* 3
- COM 463 Intercultural Communication Theory and Research *SB/G* 3

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

To assure the breadth and depth of their education, all Communication undergraduates must complete the requirements of the university General Studies, the College of Public Programs, and the Department of Communication. For descriptive information on university requirements, refer to "General Studies," page 85, and "University Graduation Requirements," page 81. 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 humanities, fine arts, and social and behavioral sciences (see "College Degree Requirements," page 445). Although many Communication courses meet the university General Studies requirements for literacy and critical inquiry (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*; 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 courses applicable to General Studies requirements and for information concern-

ing 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 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 Education. Students must complete the following Department of Communication core courses:

- COM 100 Introduction to Human Communication *SB* 3
 - COM 207 Introduction to Communication Inquiry 3
 - COM 225 Public Speaking *L1* 3
 - COM 281 Communication Aesthetics 1 3
 - COM 308 Empirical Research Methods in Communication *L2* 3
 - COM 480 Method of Teaching Communication 3
- Two pairs of the five pairs of courses plus one additional introductory course from third set listed under "B.A. and B.S. Degrees" 15
- Minimum total 31

Students must also take three of the following courses:

- COM 222 Argumentation *L1* 3
- COM 250 Small Group Communication *SB* 3
- COM 302 Communication, Conflict, and Negotiation 3
- COM 319 Persuasion and Social Influence *SB* 3
- COM 325 Advanced Public Speaking *L2* 3

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.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see General Studies, page 85. For graduation requirements, see "University Graduation Requirements," page 81. For an explanation of additional minor business courses offered but not listed in this catalog, see Classification of Courses, page 58.

GRADUATE PROGRAMS

In addition to offering an M.A. degree program, the Department of Communication also administers the interdisciplinary Ph.D. 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
A topics-oriented introduction to basic theories, dimensions, and concepts of human communicative interaction and behavior. *General Studies: SB.*

COM 110 Elements of Interpersonal Communication. (3) F, S, SS
Demonstration and practice of communicative techniques in establishing and maintaining interpersonal relationships. Prerequisite: 2.25 GPA. *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. Prerequisites: COM 100; 2.50 GPA.

COM 222 Argumentation. (3) F, S
Philosophical and theoretical foundations of argumentation, including a comparison of models of advocacy and evidence. *General Studies: L1.*

COM 225 Public Speaking. (3) F, S, SS
Verbal and nonverbal communication in platform speaking. Discussion and practice in vocal and physical delivery and in 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.*

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 of interpreter with literature and audience, and rhetorical and dramatic analysis of literary modes. Prerequisite: 2.25 GPA. *General Studies: L1;HU.*

COM 250 Introduction to Organizational Communication. (3) F, S, SS
Introduction to the study of communication in organizations, including identification of variables, roles, and patterns influencing communication in organizations. Prerequisite: 2.25 GPA. *General Studies: SB.*

COM 251 Interviewing. (3) N
Principles and techniques of interviewing, including practice through real and simulated interviews in informational, persuasive, and employee-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 concepts, principles, and skills for improving communication between persons from different minority, racial, ethnic, and cultural backgrounds. Prerequisite: 2.25 GPA. *General Studies: SB, C, G.*

COM 271 Voice Improvement. (3) N
Intensive personal and group experience to improve normal vocal usage, including articulation and pronunciation.



Celebrating commencement

Tim Trumble photo

COM 281 Communication Activities. 1 3 F S, SS

Nongraded part c pat on n fore s cs or nterpretat on cocurr cu ar act v t es Max mum 3 semester hours each semester. Prerequ s te nstructor approva

COM 294 ST: Special Topics. 3 F S SS

Prerequ s te nstru tor approva .

W th the except on f COM 300 and 400 enro ment in 300 and 400 leve COM courses equ re a m n mum cumulat' ve ASU GPA of 2.50

COM 300 CIS: Communication in Interdisciplinary Stud es. (3) F S SS

Exam nat on and ana ys s of commun cat on in the context of other academ c d sc p nes May be repeated for cred t Prerequ sites COM 100 and 225 or COM 259

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

Exam nat on of emp rca research methods in commun cat n nclud ng experimta survey descr pt ve and other quantat ve approaches Prerequ s tes w th a grade of 'C or higher COM 207 MAT 114 or 117) *Genera Stud es L2*

COM 310 Relational Communication. 3 F S

Exp orat on of commun cat on ssues n the deve opment of persona re at o sh ps. Current top cs concern ng communicat on n fr endsh p romant c and work re at onsh ps Prerequ s te COM 100 or nstructor approva

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

Theor es and strateg es of commun cat on relevant to the manage me t of co f cts and the conduct of negot at ons Prerequ s te COM 100 or nstructor app ova

COM 316 Gender and Communication. 3 F S

ntr oduct on to gender related commun cat on. Verba nonverbal, and para ngu st c d fferen es and s m ar tles are exam ned w th n soc a psycho og ca and h stor c perspect ves *Genera Stud es SB C*

COM 317 Nonverbal Communicat on. 3 F S

The study of commun cat on us ng space tme, movement, fac a express on, touch appearance sme env onment objects vo ce, and gender cu tura var ab es Not pen to students w th cred t n COM 294 ST. Beyo d Words

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

Var ables that nf uence and mod fy att ludes and behav ors of mes sage sende s and rece vers, nc ud ng ana ys s of theor es research, and current prob ems Prerequ s te COM 207 (or equ va ent) or POS 401 or PSY 230 or QBA 221 or SOC 395 or STP 226 or nstructor approva *Genera Stud es SB*

COM 320 Communication and Consumerism. 3) A

Cr t ca eva uat on of messages des gned for pub c consumpt on Per ce v ng, eva uat ng, and respond ng to po t ca soc a and commerc a commun cat on *Genera Stud es SB*

COM 321 Rhetorical Theory and Research. (3) F S

H stor ca development of rhet rca theory and research n commun cat on from c ass ca ant qu ty to the present Prerequ s te COM 207 or equ va ent or POS 401 or PSY 290 or SOC 391 or nstructor approva *Genera Stud es. L2/HU, H.*

COM 323 Commun'cation Approaches to Popular Culture. (3) F S SS

Cr t ca ana ys s of popu ar cu ture w th n soc a and po t ca contexts emphas s on mu t cu tura nf uences and representations n everyday fe Lecture, d scuss on. Prerequ s te COM 100 r nstructor approva *Genera Stud es. C*

COM 325 Advanced Public Speaking. (3) F S

Soc a and pragmat c aspects of pub c speak ng as a commun cat ve system strateg es f rhetor ca theory and the presentat on of forms of pub c commun cat on Prerequ s te COM 225 or nstructor approva *Genera Stud es L1*

COM 341 Social Contexts for Performance. 3 N

Adaptat on and performance f terature for the commun ty outs de the un vers ty Research nto the pract ca ses of performed terature

COM 344 Performance of Oral Traditions. 3 N

Cu tura bel efs and va es stud ed thr ough ethnog aph c research and performance of persona narrat ves fo k ore, myths, egends and other ora trad t ons Lecture fe dwork research paper *Genera Stud es HU C*

COM 357 Communication Technology and Information Diffusion. (3) F

Study effects of new communicat on techno ogy on soc ety organ za t' ons, and nd v duals Hands on exper ence p us cr t ca ana ys s of theory and research. Prerequ s tes: COM 250 (or MGT 301 or PGS 430 or SOC 301) and CSE 180 or equ va ent o nstructor approval. *Genera Stud es SB*

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

Cu tura nf uences of anguage on commun cat on nclud ng soc a functions of anguage b: ngua sm b cu tura sm and b d a ectism Prerequisite COM 263 or nstructor approva *Genera Stud es SB, C G*

COM 382 Classroom Apprenticeship. 1 3) F S SS

Nongraded cred t for students extend ng the r exper ence w th a con tent area by ass st ng w th c assroom superv s on n other COM courses (max mum 3 semester hours each semester) Prerequ s te nstructor approva

COM 400 CIP: Communication in Professions (3) F, S SS

Specia zed study of commun cat on processes n profess onal and organ zat ona sett ngs May be repeated for cred t Lecture d scuss on Prerequ s tes COM 100 and 225 or COM 259

COM 404 Research Apprenticeship. 3) F S

D rect research exper ence on facu ty projects Student/facu ty match based on nterests Lecture appren cesh p Prerequ s te COM 308 or nstructor approva

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

Exam nat on of cr t ca approaches re evant to commun cat on nc ud ng textua ty soc a theory, cu tura stud es a d ethnography Lecture, d scuss on. Prerequ s te COM 308

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

Advanced des gns measurement techn ques, and methods of data analys s of commun cat on research. Prerequ s tes: COM 308 and Genera Stud es N2 EDP 454 or POS 401 or PSY 230 or QBA 221 or SOC 395 or STP 226 or nstructor approva .

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

Survey and ana ys s of major research top cs parad gms and theo res dea ng w th message exchanges between and among soca peers Prerequ s tes COM 110 (or 310 and 308 or nstructor approva) *Genera Stud es SB*

COM 411 Communication in the Family. 3 A

A broad overy ew of commun cat on issues found n marr age and fam ly fe, focus ng on current top cs concern ng commun cat on n the fam y Prerequ s tes COM 110 or 310) and 207 or nstructor approva. *Genera Stud es. SB*

COM 414 Crisis Communication. (3) N

Ro e of commun cat on n cr s s deve opment and ntervent on

COM 417 Communication and Aging. (3) N

Cr t ca study of changes n human commun cat ve patterns through the later adu t years, w th attention on ntergenerat ona re at onsh ps and self concept funct ons

COM 421 Rhetoric of Social Issues. (3) F S

Cr t ca rhetor ca study of s gn f cant speakers and speeches on soc' a ssues of the past and present Prerequ s tes COM 308 and 321 or nstructor approva *Genera Stud es HU*

COM 422 Advanced Argumentation. 3 N

Advanced study of argumentat on theor es and research as app ed to pub c forum adversary scho ar y and ega sett ngs Prerequ s te COM 222 or nstructor approva

COM 426 Political Communication. (3) F

Theor es and cr t cism of pol t ca commun cat' on nc ud ng cam pa gns, mass persuas on propa ganda and speeches. Emphas s on rhetor ca approaches. *Genera Stud es. SB*

COM 430 Leadership in Group Communication. 3 N

Theory and process of eadersh p n group commun cat on emphas z ng ph osoph ca foundat ons contemporary research, and app ca t ons to group s tuat ons Prerequ s te COM 230 or nstructor approva

NOTE: For the Genera Stud es requirement courses and codes (such as L1 N3 C and H), see "Genera Stud es" page 85 For graduate requirements see "Unvers ty Graduate on Requirements" page 81. For an exp anat on of add t ona omn bus courses offered but not lsted n ths cata g see "Classfcat on f Courses" page 58

- COM 441 Performance Studies.** (3) F S SS
Theory practice and critical texts in performance. Emphasizes on the interaction between performer, text, audience and context. Frequent studies COM 241 and 308 or instructor approval. *General Studies* SB
- COM 445 Narrative Performance.** 3 N
Theory and practice of performing narrative texts (e.g. prose fiction, radio plays, dramatic essays, etc.) includes script writing and the rhetorical analysis of story telling. Frequent studies: COM 241 or instructor approval. *General Studies HU*
- COM 446 Interpretation of Literature Written by Women.** (3) N
Students explore, through performance and critical writing, literature written by women. *General Studies HU C*
- COM 450 Theory and Research in Organizational Communication.** 3 F S, SS
Critical review and analysis of the dominant theories of organizational communication and the corresponding research strategies. Prerequisites: COM 250 and 308 or instructor approval. *General Studies: SB*
- COM 453 Communication Training and Development.** (3) A
Examinate the procedures and types of communication training and development in business, industry and government. Frequent studies: COM 250 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 and analysis of different cultural backgrounds primarily in international settings. Lecture discussions on small group work. Frequent studies: COM 263 and 308 or instructor approval. *General Studies SB G*
- COM 465 Intercultural Communication Workshops.** (3) N
Experientially based study of communication between members of different cultures designed to help students improve their intercultural communication skills. Frequent studies: instructor approval.
- COM 480 Methods of Teaching Communication.** (3) N
Analysis of organization and presentation of textual and other classroom materials. Prerequisite: instructor approval.
- COM 484 Communication Internship.** (1) 12 F S SS
Frequent studies: COM 225 308
- COM 494 ST: Special Topics.** 1 3 F S, SS
COM 501 Research Methods in Communication. (3) F
Critical analysis of systems of inquiry in communication focusing on the definition of variables and approaches to conducting research in communication. Frequent studies: instructor approval.
- COM 504 Theories and Models in Communication.** (3) F
Theory construction, meta-theoretical concerns, models constructed definition, and comparative analysis of current theories in communication. Frequent studies: instructor approval.
- COM 508 Quantitative Research Methods in Communication.** (3) F
Empirical research designs, measurements, and statistical strategies and techniques in analyzing and evaluating experimental and descriptive research in communication. Frequent studies: COM 501 and 504 or instructor approval.
- COM 509 Qualitative Research Methods in Communication.** (3) S
Qualitative research methods including narrative and other nonquantitative techniques for analyzing communication and other nonquantitative techniques for analyzing communication. Frequent studies: COM 501 and 504 or instructor approval.
- COM 510 Interpersonal Communication Theory and Research.** (3) A
Contemporary theories and research in interpersonal communication. Frequent studies: COM 501 and 504 or instructor approval.
- COM 512 Death, Society, and Human Experience.** 3 N
Examining death, bereavement and suicide from both individual and social perspectives. Frequent studies: 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. Frequent studies: COM 501 and 504 or instructor approval.
- COM 529 Theories of Persuasion.** (3) A
Analysis of representative theories and models of persuasive processes and their implications for communication and behavior. Frequent studies: 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 focus on communication variables which affect small group outcomes. Frequent studies: COM 501 and 504 or instructor approval.
- COM 541 Research in Performance Studies.** (3) N
Supervised research in the historical and contemporary relationships between the performer, the text and the audience. Frequent studies: COM 501 and 504 or instructor approval.
- COM 555 Communicative Processes in Organizations.** (3) N
Systematic analysis of communicative interactions between organizational structure, format and human behavior in the organizational setting. Frequent studies: COM 501 and 504 or instructor approval.
- COM 575 Language and Message Systems.** (3) N
Synchronic systems, personal functions and contextual aspects of message systems. Measurement of "meaning." Frequent studies: COM 501 and 504 or instructor approval.
- COM 584 Communication Internship.** (1) 12 F S, SS
Discussions of research projects with the faculty. Frequent studies: admission to the graduate program.
- COM 604 Theory Construction in Communication.** (3) F
Review and analysis of philosophical problems inherent in communication research and of meta-theories designed to deal with these problems. Frequent studies: COM 504 or instructor approval.
- COM 607 Contemporary Rhetorical Methods.** (3) S
Analysis of issues in the practice of qualitative communication research including data gathering, fieldwork issues, analysis strategies and reporting results. Frequent studies: COM 509 or instructor approval.
- COM 680 Practicum: Research in Communication.** (3) S
Guided practice in the conduct of communication research. Topics identified practice procedures, formats and ethics of publishing. Frequent studies: COM 604
- COM 691 Seminar.** (1) 12 F S
Seminar topics such as the following may be offered:
(a) Current Organizational Approaches to Communication
(b) Examination of Privacy and Disclosure
(c) Interpersonal and Relational Communication
(d) Interpersonal and Relational Communication
(e) Research in Performance Studies
(f) Rhetorical Issues
(g) Social Influence
Frequent studies: instructor approval.
- COM 699 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. Frequent studies: COM 509 or instructor approval.
- COM 680 Practicum: Research in Communication.** (3) S
Guided practice in the conduct of communication research. Topics identified practice procedures, formats and ethics of publishing. Frequent studies: COM 604
- COM 691 Seminar.** (1) 12 F S
Seminar topics such as the following may be offered:
(a) Current Organizational Approaches to Communication
(b) Examination of Privacy and Disclosure
(c) Interpersonal and Relational Communication
(d) Interpersonal and Relational Communication
(e) Research in Performance Studies
(f) Rhetorical Issues
(g) Social Influence
Frequent studies: instructor approval.

NOTE: For the General Studies requirement, courses and codes (such as L1 N3 C and H see "General Studies" page 85. For graduation requirements, see "University Graduation Requirements" page 81. For an explanation of additional non-business courses offered but not listed in this catalog, see Classification of Courses page 58.

Walter Cronkite School of Journalism and Telecommunication

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 www.asu.edu/cronkite

PROFESSORS

ANDERSON, CRAFT, CRONKITE, DOIG,
 GODFREY HALVERSON MERRILL, SYLVESTER,
 WATSON-YOUM

ASSOCIATE PROFESSORS

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

ASSISTANT PROFESSORS

BARRETT, GORMLY, RUSSOMANNO

CLINICAL ASSOCIATE PROFESSORS

BITULE, 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 "News-watch," a weekly student-produced cable television news magazine program;
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:

MCO 110 Introduction to Mass Communication <i>SB</i>	3
or MCO 120 Media and Society <i>SB</i>	3
TCM 200 Fundamentals of Radio Television	3
TCM 211 Radio Television Writing <i>LJ</i>	3
TCM 235 Production Techniques	3
Total	12

* 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 News Writing <i>LJ</i>	3
MCO 110 Introduction to Mass Communication <i>SB</i>	3
or MCO 120 Media and Society <i>SB</i>	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 advisors. 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 advisors. Conscientious, careful planning and early advising are crucial to students who desire to progress through the program in a timely fashion.

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 and are available in the school office. 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 demonstrate proficiency in a non-English language (a foreign language or American Sign Language). Proficiency is defined as completing the second semester intermediate level, or higher, of a non-English language with a grade of "C" or higher.

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 Mass Communication <i>SB</i> ...	3
or MCO 120 Media and Society <i>SB</i> (3)	
MCO 402 Mass Communication 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 the "University Graduation Requirements" section.

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 Mass Communication <i>SB</i> ...	3
or MCO 120 Media and Society <i>SB</i> (3)	
MCO 402 Mass Communication Law <i>L2</i>	3
MCO 418 History of Mass Communication <i>SB, H</i>	3
or MCO 421 News Problems (3)	
or MCO 430 International Mass 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" section, page 81.

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 Mass Communication <i>SB</i>	3
or MCO 120 Media and Society <i>SB</i> (3)	
MCO 402 Mass Communication 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 Mass Communication <i>SB</i>	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.

GENERAL STUDIES REQUIREMENTS

The students must satisfy the university General Studies requirement found in the "General Studies" section and the College of Public Programs course requirements found under "College Degree Requirements," page 445. 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 rest

dent credit taken from a list of approved courses. The following courses are included:

MCO 418 History of Mass Communication <i>SB H</i>	3
MCO 430 International Mass Communication <i>G</i>	3
MCO 450 Visual Communication <i>HU</i>	3
MCO 456 Political Communication <i>SB</i>	3
MCO 460 Race, Gender and Media <i>C</i>	3
MCO 494 ST: 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, must obtain a minimum "C" grade in each course in the minor, and must have a major other than Journalism or Broadcasting.

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 SS
Writing news for the print media. Prerequisites: MCO 110 or 120 successful completion of English proficiency requirement demonstrated typing ability of 3 words per minute. *General Studies L1*
Enrollment 300- and 400-level JRN courses requires admission to the professional program.
- JRN 301 Reporting** 3 F S
Fundamentals of news gathering, interviewing, and in-depth reporting. Prerequisites: JRN 201 major. *General Studies 2*
- JRN 313 Introduction to Editing** 3 F S
Copyediting and headline writing. Elect on editing on personal computer terminals. Prerequisites: JRN 301 major.
- JRN 351 Photojournalism I** 3 F S
Taking, developing and printing pictures for newspapers and magazines produced on a media deadline 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 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: analysis and interpretation of 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 Electronic Publication Design** 3 F S
Theory, organization and practice of layout, typography, and design in traditional and multimedia publishing. 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 practice of public relations and how they relate to audiences, campaigns, and ethics. Prerequisites: JRN 401, 415 instructor approval.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see General Studies' page 85. For graduation requirements see University Graduation Requirements page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see Catalog of Courses, page 58.

JRN 420 Reporting Public Affairs. (3) F S

Instruct on 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, lighting 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. Prerequisite: JRN 451.

JRN 465 Precision Journalism. (3) S

An advanced writing course with focus on reporting polls and surveys and other numerically based stories as well as on understanding the concepts that underlie polls and surveys. Lecture. 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. Prerequisites: JRN 301, professional status, instructor approval.

MASS COMMUNICATION (MCO)**MCO 110 Introduction to Mass Communication.** (3) F, 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. Prerequisites: ENG 101 and 105 or ENG 107. *General Studies SB*

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 non-majors. *General Studies, SB*

MCO 402 Mass Communication 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 Mass Communication. (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 emphasizing editorial decisions in the press, news, and news. Prerequisite: 9 hours of mass communication/journalism/telecommunication courses or instructor approval.

MCO 430 International Mass 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 African 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 Broadcast Journalism.

MCO 470 Issues Management and Media Strategy. (3) F

Strategic aspects of media planning and management in public relations, public affairs, crisis communication, lobbying, media ethics, and government relations. Seminar. Prerequisite: JRN 401 or instructor approval.

MCO 494 ST: Special Topics. (3) N**MCO 501 Newswriting and Reporting.** (3) F

Designed for graduate students in the MMC program who have undergraduate degrees in nonjournalism areas. Objectives: to teach fundamentals of writing and reporting. Lecture. Prerequisite: acceptance into MMC 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 legal research methods.

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

Analysis of various theoretical models of mass communication with emphasis on the applications 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.

MCO 531 Broadcast Journalism. (3) S

News and information practices of networks, stations, and industry. Practice in writing, reporting, and editing with emphasis on video. Lecture. Prerequisite: MCO 501.

MCO 540 Historical/Legal Methods. (3) S

Introduction to legal and historical methods necessary to conduct qualitative mass communication research. Prerequisite: MMC graduate student.

MCO 560 Arizona Media Law. (3) F 2000

Case study approach of first amendment issues, media access, confidentiality, and invasion of privacy as applied to media organizations in Arizona. Lecture. Seminar.

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, lighting and postproduction equipment will be introduced. Prerequisites: TCM 200, successful completion of English proficiency requirement.

Enrollment in 300 and 400: TCM courses require admission to the professional program.

TCM 300 Advanced Broadcast Newswriting. (3) F S

Technique and practice in newswriting 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, and 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 in regulation, ethics, and responsibilities and basic audience psychology 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 industry and instructional television, satellite and video cassettes. 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 practices and procedures, including organizational 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.

School of Justice Studies

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REGENTS' PROFESSORS

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SCHNEIDER, ZATZ

ASSOCIATE PROFESSORS
BORTNER, LUJAN, RIDDING, N., SCHADE

ASSISTANT PROFESSORS
ADELMAN, BERNSTEIN, MENJIVAR

MISSION

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

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 "Admission," page 444; and (2) completing all of the following classes with a 2.50 minimum average GPA and a minimum grade of "C" in each:

Choose between the course combinations below 6	
ENG 101 First Year Composition 3	
ENG 102 First Year Composition 3	
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 A2 3	
JUS 303 Justice Theory 3	
College writing competence requirement 3	

Eligibility

For Justice Studies students to take a nonrequired 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.

NOTE: For the General Studies requirement courses, and codes such as L1, N3, C, and H, see General Studies, page 85. For graduation requirements, see "University Graduation Requirements," page 81. For an explanation of additional ombuds courses offered but not listed in this catalog, see "Classification of Courses," page 58.

ADVISING

Justice Studies students admitted as premajors are advised by one of the school's academic advisors. All students are encouraged to seek advising in order to formulate an appropriate educational plan.

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 480 965-7727

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 graded classroom course work in Justice Studies is required, including JUS 105 or 305 and JUS 303. No pass/fail or credit/noncredit course work may be applied to the minor. 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 all 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 the "General Studies"

section, page 85. 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 may 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 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
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 480/965 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 M.S. in Justice Studies degrees. For more infor-

mation on courses, faculty 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 correctional agencies. Philosophical and theoretical views in 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 is appropriate for freshmen and sophomore residents. Lecture, discussion.

JUS 180 Introduction to American Indian Justice Studies. 3 A

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 A

Use of critical thinking skills to analyze and comprehend controversial social issues, e.g., abortion, affirmative action, capital punishment, the flat tax, and immigration. May be repeated for credit with different titles. Lecture, discussion. *General Studies SB*

JUS 280 American Indian Law and Society. 3 A

Examines the sovereign status of American Indians and legal relationships between the tribes and the U.S. government. Lecture, student evaluation presentation. *General Studies C*

JUS 294 ST: Special Topics. 1 3 F S SS

Topics chosen from various fields of justice studies.

JUS 301 Research in Justice Studies. 3 F S SS

Focus is on developing and evaluating research designs, data collection, and the relationship between validity and reliability. Methods for conducting research are a 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 egalitarianism and utilitarianism. Prerequisite: see "Egality" under "School of Justice Studies."

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: see "Egality" under "School of Justice Studies."

JUS 306 Police and Society. 3 A

Focuses on community policing or tactical inquiry of administrative decisions on making; perspectives on police culture, street practices, urban policing. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 308 Courts and Society. 3 A

History and development of courts. Relationship between dispute resolution on mechanical and cultural social structure processes in which they are embedded. Lecture, discussion on cooperative learning case analysis. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 310 Corrections and Justice. 3 A

Examines the United States prison conditions; types of offenders, issues including drugs, gangs, drunk driving, racial discrimination, and "intermediate" punishments. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 311 Crime, Prevention, and Control. 3 A

Prevention and control of crime examined by a review of contemporary theories, justice agency procedures, and social policies. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 320 Community and Social Justice. 3 A

Definitions of community will be discussed and analyzed. Impact of environmental behavior patterns, community organization for social empowerment. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 321 Wealth Distribution and Poverty. 3 A

Examination of wealth and income distribution in the United States and analysis of ideological and political forces producing an increasing unequal society. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies." *General Studies C*

JUS 329 Domestic Violence. 3 A

Legal history, racial, ethnic, and treatment aspects of domestic violence, including child abuse, woman battering, incest, and marital rape. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 335 Organized Crime. 3 A

The nature of organized crime and its legal activities, theories of control, and efforts by justice agencies to counter its dominance in society. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 345 White Collar Crime. 3 A

Basic white collar concepts and categories, causes and effects; mechanisms and contexts of operation, social and criminological responsibilities. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 360 Law and Social Control. 3 A

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: see "Egality" under "School of Justice Studies." *General Studies SB*

JUS 365 Substantive Criminal Law. 3 A

Crimes against persons, property, and society; legislative analysis; primary appellate judicial opinions, substantive criminal law issues; trial court determinations. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 368 Procedural Criminal Law. 3 A

Due process with respect to individual liberty, privacy, and government power. Emphasis on broad ideas of political and social theory. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 375 Crime and the Mass Media. (3 A)

A survey of the impact of mass media and popular culture on crime, police actions, and social policy. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 380 Contemporary Issues of American Indian Nations. (3 A)

Examines the unique status of American Indian governments, focus on issues of sovereignty and legal jurisdiction. Prerequisite: see "Egality" under "School of Justice Studies." *General Studies C*

JUS 394 ST: Special Topics. 1 3 A

Topics chosen from various fields of justice studies. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 404 Imperatives of Proof. 3 A

Issues of evidence, rules of proof, establishing fact and identity in the justice system. Lecture, case analysis, cooperative learning, discussion. Prerequisite: see "Egality" under "School of Justice Studies." *General Studies L2*

JUS 410 Punishment: Logic and Approach. (3 A)

Analyzes forms of punishment, how and why they have changed. Areas include philosophy, history, and social structure of punishment. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

JUS 415 Gender and International Development. (3 A)

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: see "Egality" under "School of Justice Studies." *General Studies L2 G*

JUS 420 Women, Work, and Justice. 3 A

Examination of gender inequality in the workplace, including the nature of women's work, the realities and models for promoting gender justice at work. Lecture, discussion. Prerequisite: see "Egality" under "School of Justice Studies."

NOTE: For the *General Studies* requirement courses and codes such as L N3 C and H see "General Studies" page 85. For graduation requirements see "University Graduation Requirements" page 81. For an explanation of additional non-business courses offered but not listed in this catalog see "Classification of Courses" page 58.

JUS 422 Women, Law, and Social Control. 3 A

Examnation of social economic and legal factors that are relevant to mechanisms of social control over women and girls. Readings include articles through video. Prerequisite see 'Egb ty' under School of Justice Studies

JUS 425 Race, Gender, and Crime. 3 A

Critical examination of theories of research finding policies and controversies concerning race ethnicity gender and crime. Lecture/discussion cooperative learning. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies L2/SB C*

JUS 440 Administration and Justice. 3 A

Diversity issues pre-incident era and service delivery relationships between state and community. Case studies of regulation on state administration apparatuses. Lecture case analysis cooperative learning discussion. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies 2*

JUS 450 Alternatives to Incarceration. 3 A

Investigation of various alternatives to incarceration advantages/disadvantages major issues including net widening cost effectiveness risk assessment community reentry prevention. Lecture research. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies L2*

JUS 460 Feminism and Justice. 3 A

Explores feminist thought and critical theory. Political theories examine issues of racism sexism and the law. Lecture/discussion. Prerequisite see 'Egb ty' under School of Justice Studies

JUS 463 Disciplinary Justice. 3 A

Use of key social manifestations of discretion in legal system and other societal institutions. Theoretical empirical linkages between discretion and criminal justice based on race ethnicity and gender. Lecture/discussion. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies SB*

JUS 469 Political Deviance and the Law. 3 A

Examnation of the controversies created by political and deviant behavior. Critical analysis of various approaches. Lecture/discussion. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies L2/SB C*

JUS 470 Alternative Dispute Resolution. 3 A

Critical examination of the tenets of alternative dispute resolution. In-depth exposure to the gamut of ADR including community and court-based. Lecture cooperative learning field research. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies L2/SB*

JUS 474 Legislation of Morality. 3 A

Addresses historical and contemporary issues related to social justice movements and racial/ethnic disparities in society. Issues include AIDS, human rights, homosexuality, prostitution, and racial discrimination. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies L2/SB*

JUS 477 Youth and Justice. 3 A

Critical examination of youth-related justice issues including economic justice, violence against youth, delinquency, and the juvenile justice system. Lecture group work. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies L2/SB*

JUS 480 Law, Policy, and American Indians. 3 A

In-depth study of how on Indian laws and policies have impacted American Indian culture and tenure and sovereignty. Prerequisite see 'Egb ty' under School of Justice Studies *Genera Studies C*

JUS 484 Internship. 3 6 F S SS

Assignments are related placement designed to further the student's negotiation of the yardstick of practice. Tasks are arranged through consultation of students with practitioners. Students must continue with the school for appropriate application and registration procedures. May be taken for a total of 1 semester hours, of which a maximum of 6 are applied to the major. Prerequisites: major status. Justice Studies student.

JUS 494 ST- Special Topics. 1 3 A

Topics chosen from various fields of justice studies. Lecture/discussion. Prerequisite see 'Egb ty' under School of Justice Studies

JUS 498 PS 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 in more than 3 applied to the major. Prerequisites: major status, minimum cumulative GPA of 3.0. Instructor approval.

JUS 499 Individualized Instruction. 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 tutorials. Prerequisites: major status, minimum GPA in US courses of 3.00 senior standing, instructor approval.

JUS 500 Justice Research Methods. 3 A

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

JUS 501 Justice Theory. 3 A

Theories and philosophies of social, economic, political and criminal justice. Applications of theoretical contemporary justice issues. Lecture/discussion.

JUS 503 Crime and Social Causation. 3 A

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 A

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

JUS 510 Understanding the Offender. 3 A

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

JUS 514 Justice Policy. 3 A

Assessment of the political use 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 A

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

JUS 520 Qualitative Theory and Data Collection. 3 A

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 A

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 A

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

JUS 547 Program Evaluation. 3 A

Nature and process of program evaluation. Program monitoring impact and process assessment. Evaluation assessment methods utilization and potentials of evaluation. Lecture/lab. Prerequisite: JUS 500 recommended.

JUS 550 Alternatives to Incarceration. 3 A

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

JUS 560 Women, Law, and Social Control. 3 A

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

JUS 570 Juvenile Delinquency. 3 A

Study of delinquency including causal 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 A

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

JUS 579 Political Deviance. 3 A

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 are justice agency designed to further the student's negotiation of theory and practice. Placement are arranged through consultation with students and agencies.

JUS 588 Justice and the Mass Media. 3 A

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

JUS 591 Seminar 1 3 A

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

JUS 610 Law and the Social Sciences. 3 A

Analysis of the theoretical grounds underlying diverse studies of law and society: creation and administration of law and jurisprudence applications

JUS 620 Justice Research and Methods 3 A

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 A

Variable 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 A

Analysis of philosophical perspectives of ultimate linkages between social science theory and justice: critical applications of justice to social issues

JUS 650 Advanced Qualitative Data Analysis. 3 S

Advanced qualitative data collection and analysis techniques including ethnography, in-depth interviews, field notes, coding, transcription, content analysis, textual analysis. Seminar

JUS 669 Political Trials and Indigenous Justice. 3 A

Focuses upon research in political justice: development and concepts of indigenous and contemporary justice. Lecture/discussion

JUS 691 Seminar. 1 3 F S SS

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

PUBLIC AFFAIRS (PAF)

PAF 401 Statistics. 3 F S

Survey of statistical concepts and techniques with application to public administration. Directed unit toward program. First day. Satisfies statistical prerequisites. Prerequisite: PAF 501 and 502

PAF 501 Public Service Research 3 F

Philosophy, scope and methods, public service research design, values, and ethics. Prerequisite: an approved curriculum statistics

PAF 502 Computer Applications. 3 S

Computer applications in public affairs: software packages for data analysis, decisions making, information dissemination and problem solving. Prerequisite: PAF 501

PAF 503 Public Affairs. F S

The development and context of American public administration and policy: the effects of administration, government and values and ethics in administration

PAF 504 Public Affairs Economics. 3 F S

Teaches fundamental economic principles and macroeconomic concepts applied to public sector decisions and policies

PAF 505 Public Policy Analysis. 3 F

Institutional and formal analysis of policy process: decisions making, and problems solving: values, ethics and the uses of policy analysis. Prerequisites: PAF 504, satisfactory fulfillment of the statistical requirement

PAF 506 Public Budgeting and Finance. 3 F

The economic and political institutional and ethical foundations of government: finance, budget and budgeting. Prerequisites: PAF 502, 504

PAF 507 Public Human Resource Management. 3 F S

Personnel systems, behavior and management of people in public organizations: collective behavior, union, conflict management, motivation, productivity and ethics

PAF 508 Organization Behavior 3 F S

Theory and application in the management of organizational behavior with emphasis on leadership and the public service

PAF 509 Public Service. 3 S

Capstone application of core course knowledge, skills and abilities required for public service. Prerequisites: PAF 501, 502, 503, 504, 505, 506, 507, 508

PAF 510 Governmental Budgeting. 3 N

Theories, applications and consequences of budget decisions making. Prerequisite: PAF 504

PAF 511 Governmental Finance N

Sources, financing, management, funds and debts: a general pattern of expenditure, state, counties, cities and districts. Prerequisite: PAF 504

PAF 520 Public Management. 3 N

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: empirical work with application to public administration: organizational issues

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 A

The managers' experiences: the different forms of administration: legislative and community sectors

PAF 525 Public Program Management. 3 N

Governmental service programming: format, financing, operating, evaluating, a director's analysis of the relationship between 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: conducting staffing, supervising, strategic development, resource planning and implementation

PAF 529 Organization Change and Development 3 N

Exploring the nature and management of change and development as a total organizational goal: effective organizational change

School of Public Affairs

Dickinson McGaw

Director

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www.asu.edu/copp/publicaffairs

PROFESSORS

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

ASSOCIATE PROFESSORS

ALOZE, BROWN, DeGRAW, LAN, VINZANT

ASSISTANT PROFESSORS

CAMPBELL, De LORENZO, 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.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C and H, see General Studies page 85. For graduate on requirements, see University Graduate Requirements page 81. For an explanation of additional non-business courses offered but not listed in this catalog, see Classification of Courses page 58.

PAF 530 Management of Urban Government. 3 N
Adm n strat ve pract ces and behavior w th n the urban p tca d m n strat ve environment Funct ona areas such as c tzen part pat on, urban p ann ng, urban transportat on and the c fcts betwe u ba po tcs and adm n strat ve eff cency

PAF 531 Community Conflict Resolut' on. 3 N
Interd sc p nary approach to understand ng the dynam s f commu nty conf ct Strateg c consid rat ons n po cy des gn and adv c y potent a react on to confli ct Re evant mode and research f nd ngs generated by both case stud es and comparat ve meth ds

PAF 532 Urban Planning Administration. 3 N
H stor ca and present day use of urban p ann ng a d procedures f r ts mp ementat on Bas c pr nc pes and pract ces

PAF 533 Urban Growth Adm nstration. 3 N
Exam nes the process of urban growth and change Pa tnersh p ros es payed by pub c and pr vate sectors n management are emphas zed

PAF 535 Urban Housing Policy. 3 N
Comprehensive consid rat on of the rev ta zat on f Amer ca cties w th major emphas s upon the hous ng process and related nst t ons and serv ces

PAF 536 Urban Policy Making. 3 N
Ana ys s of the opportunit es and costs f nf uenc ng pub pol y and the ros es of off c a s and bureaucrac es n dec s on mak ng

PAF 540 Advanced Policy Analysis 3 A
Emphas zes the structure of po cy prob ems forecast ng po cy a ter nat ves opt m zing resources and reduc ng unce ta nty n po cy mak ng Prerequ s te PAF 505 or nstructor appr va

PAF 541 Program Evaluation. (3 N
Var ous methodo g es ava able for the eva uat on of pub c p ces and programs Prerequ s te: PAF 501 or nstru tor approva

PAF 546 Environmental Policy and Management. 3 N
Ana ys s of env ronmenta po cy and p ann ng ssues and pr nc pes re ated to the ana ys s and management of natura and urban reg na resources

PAF 547 Science, Technology, and Publ c Affairs. 3 N
The nf uence of sc ence and technogy on governmenta po cy mak ng sc ent sts as adm nstrators and adv sors governmenta po cy mak ng for sc ence and technology government as a sponsor of research and deve opment

PAF 548 Women, Polttics, and Public Pol cy. 3 N
Exp res how po tca ph osophy po tcs and pub c po cy affect and are affected by women

PAF 549 Diversity Issues and Public Policy. 3 N
Exam nat on of pub c po cy ssues concern ng or affect ng women b ack Lat no, As an and Amer can nd an communit es as well as those groups mpact on the po cy process

PAF 550 Information Management. 3 N
Concepts and theory of informat on and nformat n technogy n pub c sector organ zat ons.

PAF 551 Computers n Administration. 3 N
Exper ence n use of computer technogy f r pub c ad n strat on prob em so v ng

PAF 552 Public Information Systems. 3 N
Systems ana ys s concepts and theory as app ed to adm n strat on Alternat ve modes of informat on organizat on and the r mpact on pub c dec s on mak ng.

PAF 555 Research Data Management 3 N
Techn ques and prob ems assoc ated w th data management n a research env ronment Database management systems security and ntegr ty access b ty and cost

PAF 556 Database Management Systems. 3 N
Concept and use of modern database management systems n an adm n strat ve organ zat on Advantages and dsadvantages f th s approach

PAF 561 Comparative Admin'stration. 3 N
Literature on comparat ve pub c adm strat on the ry Bure cra es and the r mpact on the po tca deve opment process Se ected nat ons are stud ed

PAF 562 Intergovernmental Relations. 3 A
Evo ut on growth present status a d chara ter st cs of the US fed era system of government Federa state re at ns state ca re a t ons, reg onal sm councl s of government terstate cooperat on, grants- n a d, and revenue shar ng.

PAF 563 Report Preparation. 3 N
Intens ve pract ce n wrtten and ora presentat n of reports to c nfer ences w th prob ems n p adm n strat on V sua a d techn ques

PAF 564 Political Economy. 3 A
Class ca and c ntemporary terature a d h stor ca deve opment of governmenta and econ m c arrangements w th spec a emphas s on the ro e of the state

PAF 591 Seminar. 1 12 F S
Topics may ncude b t are not m ted t the fo ow ng
a) Bus ness and Government
b) Emergency Management
c) Genera Pl b c Adm n strat on
d) nformat on Management
e) Pub c F nance Adm n st at on
f) Pub c Management
g) Pub c Po cy Ana ys s
h) Urban Affa rs and Urban P ann ng

PAF 600 Research Design and Methods. 3 A
Advanced methods of research des gn and data col ect on. Prerequ s tes: forma graduate eve course work n stat st cs and research methods

PAF 601 Seminar: Policy Analysis and Evaluation. 3 A
Normat ve and co ceptua ss es of po cy formu at on p ementat on and eva uat on methods of po cy ana ys s and eva uat on

PAF 602 Seminar: Foundat ons of Public Administration. 3) A
Eth ca soc a ega , and ph soph ca f undat ons of publ c adm n s trat on

PAF 603 Sem'nar: Organization and Behavior in the Publ c Sector. 3 A
Structure organ zat n c nduct and performa ce of pub c sector nst tut ons n the adm n strat on of pub po cy Prerequ s te PAF 602

Department of Recreation Management and Tourism

Carlton F. Yoshioka
Chair

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www.asu.edu/copp/recreation

PROFESSORS

ALL SON HALEY, YOSHIOKA

ASSOCIATE PROFESSORS

TEYE, V RDEN

ASSISTANT PROFESSORS

ASHCRAFT BAKER MART NEZ, PRITCHARD,
SCHNEIDER, SONMEZ

DEPARTMENTAL MAJOR REQUIREMENTS

Students may declare Recreat on as their major but can not register for upper division core classes without *profes sional status*. To be ctually adm tt d w th professional status to the B S degree program n Re creat n students must

1. meet the College of Publ c Programs major status admission require ents see "Admission," page 444);
2. complete REC 120 and 210 w th 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 56 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 non profit agencies, visitor and convention bureaus, senior centers, retirement communities, resorts, clinical rehabilitation centers, hospitals, destination management companies, and other components of the tourism commercial recreation industry. Graduates have also been employed by state offices of tourism, state parks departments, various federal recreation resource agencies, and professional sports arenas.

Concentrations

Students may select from two concentrations. (1) recreation management and (2) tourism.

Recreation Management. Students pursuing the recreation management concentration can further specialize in therapeutic recreation, community and urban recreation, outdoor recreation, or nonprofit/youth agency administration (American Humanics). In addition to the core, these concentrations consist of 15 semester hours of recreation related courses and 15 semester hours of related areas courses.

Within the recreation management concentration, students may specialize in Therapeutic Recreation and in doing so, may qualify to sit for the National Council for Therapeutic Recreation Certification exam. This professional development prepares graduates for careers in both clinical and community settings, working and disabled individuals in their pursuit of quality leisure experiences. This is a growing field and the only program of its kind in Arizona.

Tourism. 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 or 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.

MINOR IN TOURISM

The department offers a minor in Tourism, consisting of REC 120 Leisure and the Quality of Life and 12 additional hours of upper division approved courses from the ASU main campus. The minor in Recreation Management previously offered is currently undergoing academic review. It may be offered in the future subject to resource availability.

CERTIFICATE PROGRAM

Nonprofit/Youth Agency Administration: American Humanics Certificate Program. The certificate program in Nonprofit/Youth Agency Administration: American Humanics features professional affiliation with and certification by American Humanics, Inc., the national leader in education for youth and human service agency administration. American Humanics collaborates with such agencies as the American Red Cross, Big Brothers/Big Sisters, Boys and Girls Clubs of America, the Boy 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 Workshop	1
REC 420 American Humanics Institute	1
REC 433 Managing Not for Profit Agencies	3
Minimum total	14

PROGRAM REQUIREMENTS

The 63 semester hour B.S. degree in Recreation includes 33 semester hours of major core courses, which must be taken on the ASU Main campus.

Recreation Major Core Courses	
REC 120 Leisure and the Quality of Life SB	3
REC 211 Leisure Delivery Systems	3
REC 330 Programming of Recreation Services L2	3
REC 350 Promoting 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

NOTE: For the General Studies requirement courses and codes (such as L1, N3, C, and H) see "General Studies" page 85. For graduation requirements see "University Graduation Requirements" page 81. For an explanation of additional non-business courses offered but not listed in this catalog see "Classification of Courses" page 58.

REC 330, 350, 462, and 482 require *professional status* and must be taken in sequence. REC 463 is the final capstone course taken in the department.

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 on checksheets available in the department office.

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.

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, social 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. Social, historical, psychological, cultural, economic and political foundations of 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 philosophical, cumulative, and outdoor experience. Field trips 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. Non-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 professions. 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 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 services 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

Administration of 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. Prerequisites: REC 305. Recreation major or minor.

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

Foundations for effective program planning in varied leisure delivery systems. Prerequisite: Recreation professional status. *General Studies L2*

REC 340 Outdoor Survival. (3) A

Interdisciplinary approach to outdoor survival, including attitudes, psychological, stress, physiological, stress preparation, 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 making in recreation resource agencies. Policy analysis and use of conflicts. Prerequisite: Recreation major.

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

Introduction to specific 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, wilderness and outdoor recreation 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 regional development concepts and theories to destination product development. Prerequisites: REC 305, Recreation major or minor.

REC 380 Wilderness and Parks in America. (3) F 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) N

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

REC 400 Processes and Techniques in Therapeutic Recreation. 3 A

In-depth analysis of theoretical and philosophical approaches to therapeutic recreation practice with emphasis on various facilitation 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

Management and nonprofit management institute for preparation of youth development and nonprofit 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 decisions 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 settings. 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 ST: 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 methodology, research issues, and techniques relevant to contemporary social research. Prerequisite: 5-0-level or higher approved statistics course.

REC 501 Research Methods II. 3 N

Advanced treatment of methodology 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; socio-cultural 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.

School of Social Work

Elizabeth A. Segal

Interim Director

(WHALL 135) 480/965-3304

Fax 480/965-5986

www.asu.edu/socialwork

PROFESSORS

ASHFORD, COUDROGLOU, DALEY, KETTNER, LeCROY, MacEACHRON, MARTINEZ, BRAWLEY, MORONEY, SEGAL

ASSOCIATE PROFESSORS

GUSTAVSSON, LEYBA, MONTERO, NICHOLS, PAZ, RISLEY, CURTIS, WALLER, ZORITA

ASSISTANT PROFESSORS

BELL, BRZUZY, GERDES, HURDLE, MARSGLA, NAPOLI, STEINER, STROMWALL, VILLERREAL

ACADEMIC PROFESSIONALS

GONZALEZ-SANTANA, JOHNSTON, KNUTSON-WOODS

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

On January 1, 1999, the School of Social Work officially became a part of the College of Public Programs. To accommodate the smooth transition of the school into the college, major status admissions requirements and other college degree requirements established by the College of Public Programs do not apply to the School of Social Work during the 1999-2000 academic year but will be phased in during subsequent years.

The School of Social Work is organized around three program areas.

NOTE: For the General Studies requirement, courses and codes such as L1, N3, C, and H, see 'General Studies' page 85. For graduation requirements see 'University Graduation Requirements' page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see 'Catalogation of Courses' page 58.

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 community 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 under "Transfer Credit," page 63. 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.



West Hall, home to the School of Social Work

Tim Trumble photo

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 480/965 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 BSW program coordinator 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 B.S.W. program coordinator. 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 Profes-

sional 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 under "Readmission to the University," page 71. 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 under "Transfer Credit," page 63. 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 "Guidelines for Determination of Catalog Year," page 81.

Arizona students are urged to refer to the *Arizona Higher Education Course Equivalency Guide* (CEG) for the transferability of specific courses from Arizona community colleges. Copies of the guide are available from Academic Services, WHALL 135. Students may also access the guide through the Office of Academic Articulation's Web site at www.asu.edu/provost/articulation.

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 81).

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 assigned 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 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," page 444).

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 "University Graduation Requirements," page 81.

General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy a university requirement for a minimum of 35 semester hours of approved coursework in General Studies. See "General Studies," page 85.

Note that all three General Studies awareness areas are required. Consult your academic advisor for an approved list of courses.

SCHOOL OF SOCIAL WORK DEGREE REQUIREMENTS

All students enrolled in a baccalaureate degree program must satisfy School of Social Work degree requirements with additional coursework chosen from among those courses that satisfy the General Studies requirement. General Studies courses are listed in the "General Studies" section, page 85, 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 or 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	Microeconomic Principles SB	3
PGS 101	Introduction to Psychology SB	3
POS 110	Government and Politics SB	3
	or POS 111 American National Government SB	3
SOC 101	Introduction to Sociology SB	3
	or SOC 301 Principles of Sociology SB	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 curriculum includes all university requirements (see "University Graduation Requirements," page 81), including the General Studies requirements (see "General Studies," page 85), 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 B.S.W. program coordinator.

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 7	Introduction to Social Work H	3
SWU 29	Social Service Delivery Systems	3
SWU 311	Human Behavior in the Social Environment I 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
SWU 4	Social Work Practice II	3
SWU 4	Social Work Practice III	3
SWU 42	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 447	Introduction to Practice with Children and Families in Child Welfare or SWU 444 Issues in School of 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.

SCHOOL OF SOCIAL WORK 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, B.S.W. program coordinator, coordinator of field education, 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 ever 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 *Politics 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 in "University Honors College," page 316

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 historical 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. Prerequisite: SWU 271

SWU 301 Human Behavior in the Social Environment I. (3) F S
Impact of the social environment on the behavior of individuals, families, communities, and organizations. Prerequisites: PGS 101, SOC 101. Prerequisite: 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 relationship between physical and social environments. Lecture, discussion. Prerequisite: SWU 271, 291

SWU 310 Social Work Practice I. (3) F S
Introduction to social work methods emphasizing the following skills: communication patterns, cross-cultural interviewing, recording, reporting, and video training. Prerequisite: SWU 291. Prerequisite: SWU 301

SWU 320 Research Methods in Social Work. (3) F, S
Application of scientific principles to field practice: impact assessment, intervention procedures, and problem formulation in social work. Lecture, cooperative learning. Prerequisite: SWU 310

SWU 321 Statistics for Social Workers. (3) F, S
Teaches social workers how to use and interpret descriptive and inferential statistics in social work practice. Lecture, small group work. Prerequisites: MAT 114, 117. Prerequisite: SWU 320 *General Studies N2*

SWU 340 Human Behavior in the Social Environment II. (3) F, S
Theories of human development across the life span. Emphasis is placed on individuals, families and small groups. Lecture/discussion. Prerequisite: SWU 301. Prerequisite: SWU 302, 310 *General Studies SB*

SWU 374 Diversity and Oppression in a Social Work Context. (3) F, S
Issues of social inequality related to race, ethnicity, gender, sexual orientation and disability. Emphasis on populations of the Southwest. Prerequisite: SWU 310 *General Studies C*

SWU 410 Social Work Practice II. (3) F, S
Knowledge and skills in social work practice with individuals and families. Prerequisites: PH 101 or 306, SWU 310. Social Work major. Corequisites: SWU 412, 413

SWU 411 Social Work Practice III. (3) F, S
Knowledge and skills in social work practice with groups, communities and organizations. Prerequisites: SWU 411, 412, 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 I. (1) F, S
Field-focused seminar including practice evaluation. 15 hours a week. Prerequisite: Social Work major. Corequisites: SWU 410, 412

SWU 414 Field Instruction II. (5) F, S
Sixteen hours a week of supervised practice in an approved placement. Prerequisites: SWU 413. Social Work major. Corequisites: SWU 411, 415

SWU 415 Field Instruction Seminar II. (1) F, S
Field-focused seminar including practice evaluation. 15 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. Prerequisite: 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, 412, 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 410, 412, 413. Social Work major

NOTE: For the General Studies requirement courses and codes such as L1, N3, C and H, see General Studies, page 85. For graduation requirements, see University Graduation Requirements, page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses" page 58.

Summer Sessions

Carol Switzer, M.S.

Director

The summer sessions, offering more than 3,000 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 on 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.

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/university graduate. 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 readmitted. See "Readmission to the University" page 71.

Conditional admission before graduation from high school may be granted. See "Admission before Graduation from High School," page 63.

Advising. All students are strongly encouraged to seek academic advising before enrolling in summer courses. See "Academic Advising" page 71.

Fees and Expenses. Summer sessions students pay for the actual number of semester hours enrolled: the Associated Students of ASU fee, 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 480-965-3464 or write:

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 480-965-5515 or write:

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, rubella, immunity or immunization given after January 1, 1958. See "Immunization Requirements," page 61.

Parking. A decal is required to park at ASU. For more information, phone 480-965-6124 or write:

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

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

A maximum of seven semester hours in each five-week session or nine semester hours in the eight-week session may be taken. Hours of enrollment in any other institution or 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 application form, and the registration procedure, is available the last week of January at the Office of Summer Sessions, ADMIN 600, and all registrar sites.

To request the *Summer Sessions Bulletin*, sun or study abroad brochures, or other summer information, phone 480-965-6611 or write:

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

International Programs

William G. Davey
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 conditions of the contemporary world. Canada and Mexico hold a special relationship as a result of proximity and membership in the North American Free Trade Agreement (NAFTA). Europe is developing as a supranational unit in the form of the European Community with an ethos of its own. The Pacific Rim constitutes one of the most dynamic economic regions of the world. All of these regions are interconnected through swiftly developing information channels, whose power is quickly changing the contours of higher education.

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

ACADEMIC PROGRAMS

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

Study Abroad Programs. Study abroad programs are arrangements with educational institutions abroad such that ASU students can study in these institutions and, at the completion of their period of study—normally either a semester or a full academic year—earn ASU resident credit for the courses taken. Outgoing ASU students are charged a program fee, and arrangements are usually made for accommodations and other student needs. ASU registration fee and tuition waivers are not normally applicable toward the costs of study abroad programs. Financial aid such as scholarships, grants, and loans may, in most cases, be applied to program costs. Once on site, ASU students may be placed in special classes created for them, or they may study alongside students from other countries.

Study abroad programs generally fall into one of three categories—language immersion programs, “island” programs, and programs in which courses are offered in English. ASU immersion programs, in which students learn the language of the host country with little or no previous language knowledge, include programs in Germany, Israel,

Italy, Mexico, and Portugal. “Island” programs are those in which students take courses taught in the host country language and frequently live with host families. The courses are designed to be offered to foreign (not host country) students. ASU offers such programs in France and Spain. Programs in which students can take courses taught in English are offered in the United Kingdom but may also be offered in certain institutions in non-English speaking countries.

Exchange Programs. Exchange programs are those in which a small number of ASU students may study at a foreign institution, in return for which students from that institution have a reciprocal opportunity to study at ASU. ASU students pay their normal registration fees and tuition at ASU even though they attend the institution with which they are being exchanged. In general, ASU registration fees and tuition may be paid by scholarships or waivers. Financial aid may, in most cases, be applied to the costs of exchange programs. As in the case of study abroad programs, ASU students earn ASU resident credit on these exchange programs. Exchange programs offer students the chance to enter the mainstream of university life in the country of their choice. Normally 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 the 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 Latin American Studies Center, 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.

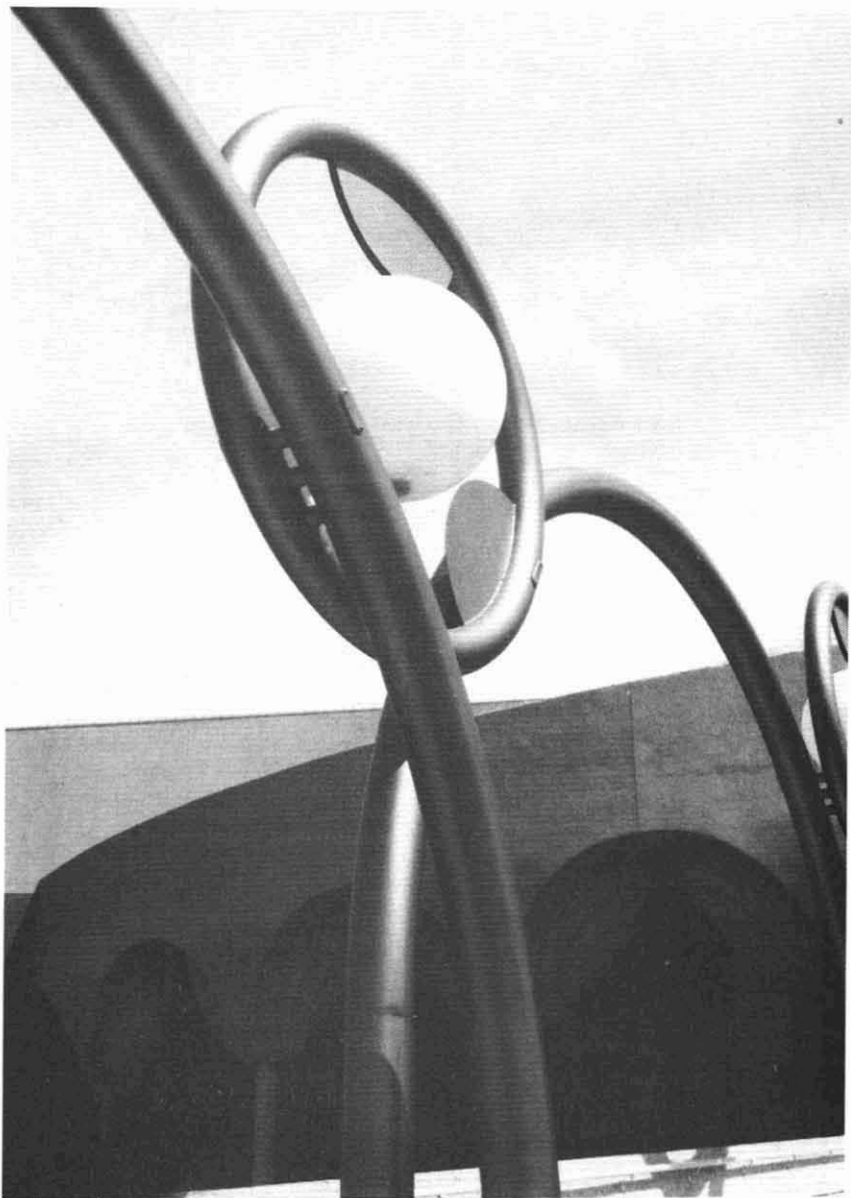
Procedures. Students interested in participating in such programs should identify their interests as soon as possible—in the freshman year if language learning is to be involved. Students should express their interests to the International Programs office in MOEUR 124; if need be, students are directed 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 program retain the catalog status they held at the time of their departure.

Information on the status of programs can be obtained from the International Programs office in MOEUR 124 or from the International Programs World Wide Web home page at 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 refund procedures, noting that, since study abroad and exchange arrangements sometimes commit the university, refunds are not always possible in full or in part. ASU fee refund schedules do not apply.

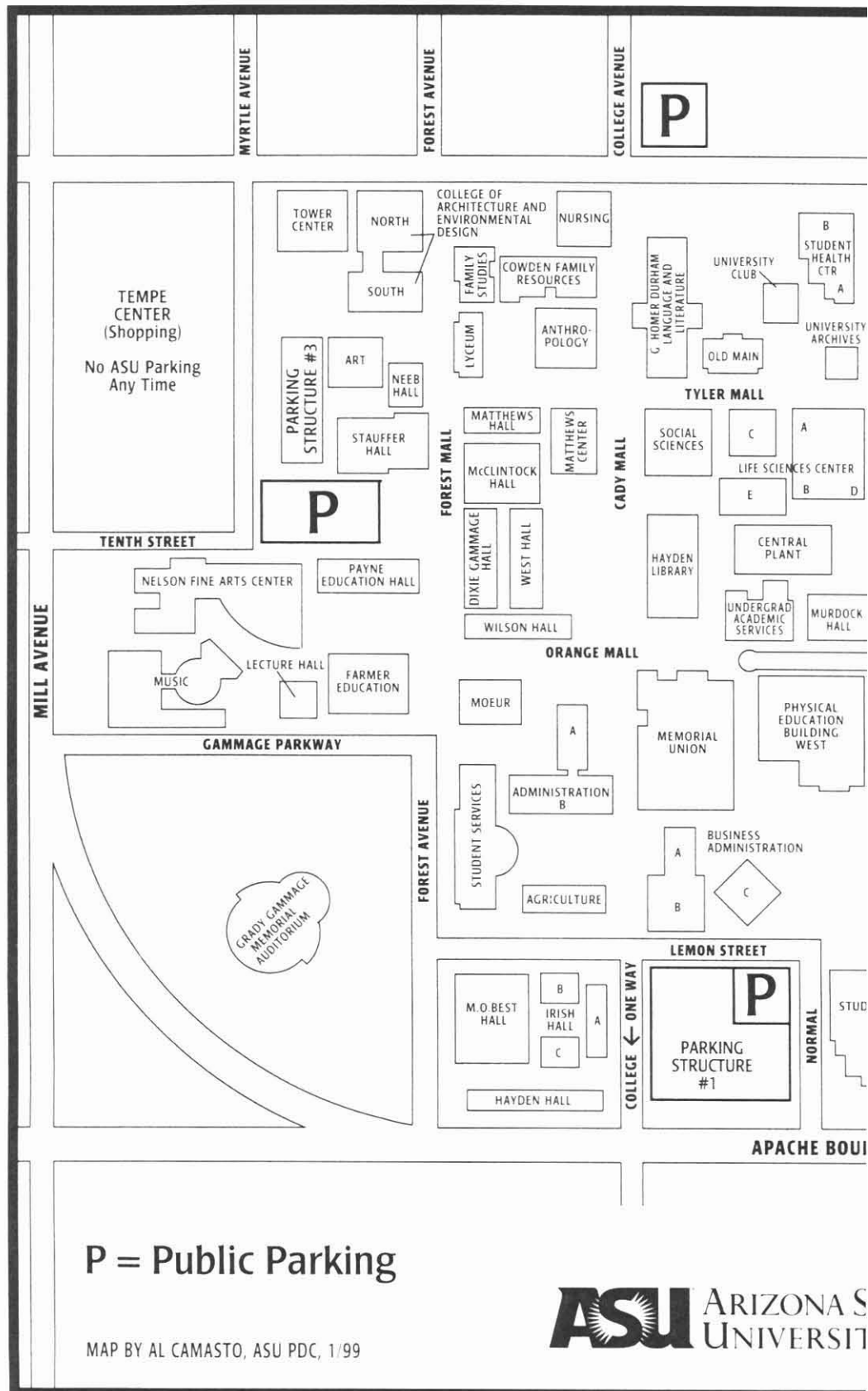
OTHER ACTIVITIES

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



A close-up glimpse of Gammage Memorial Auditorium

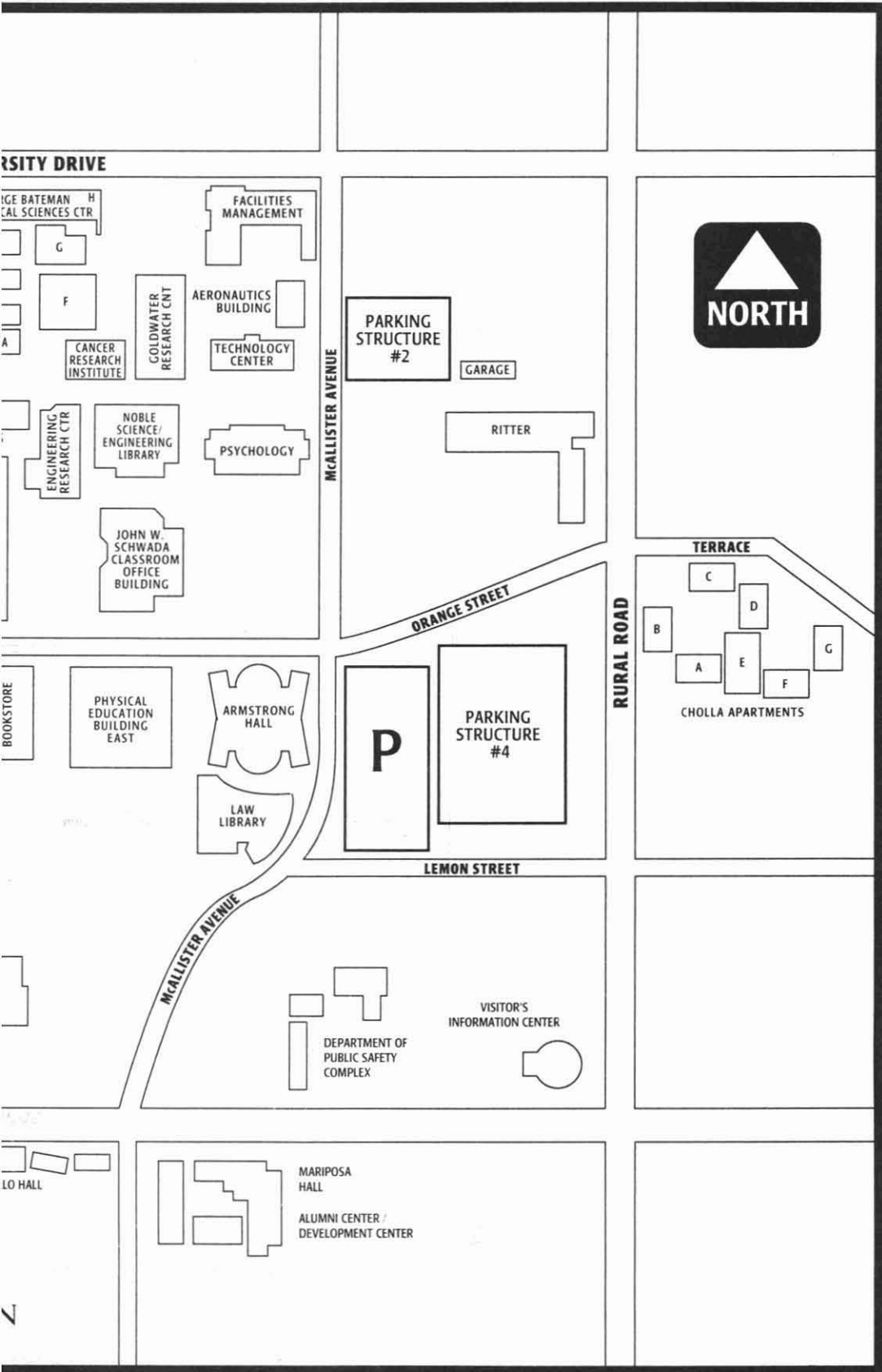
Tim Trumble photo

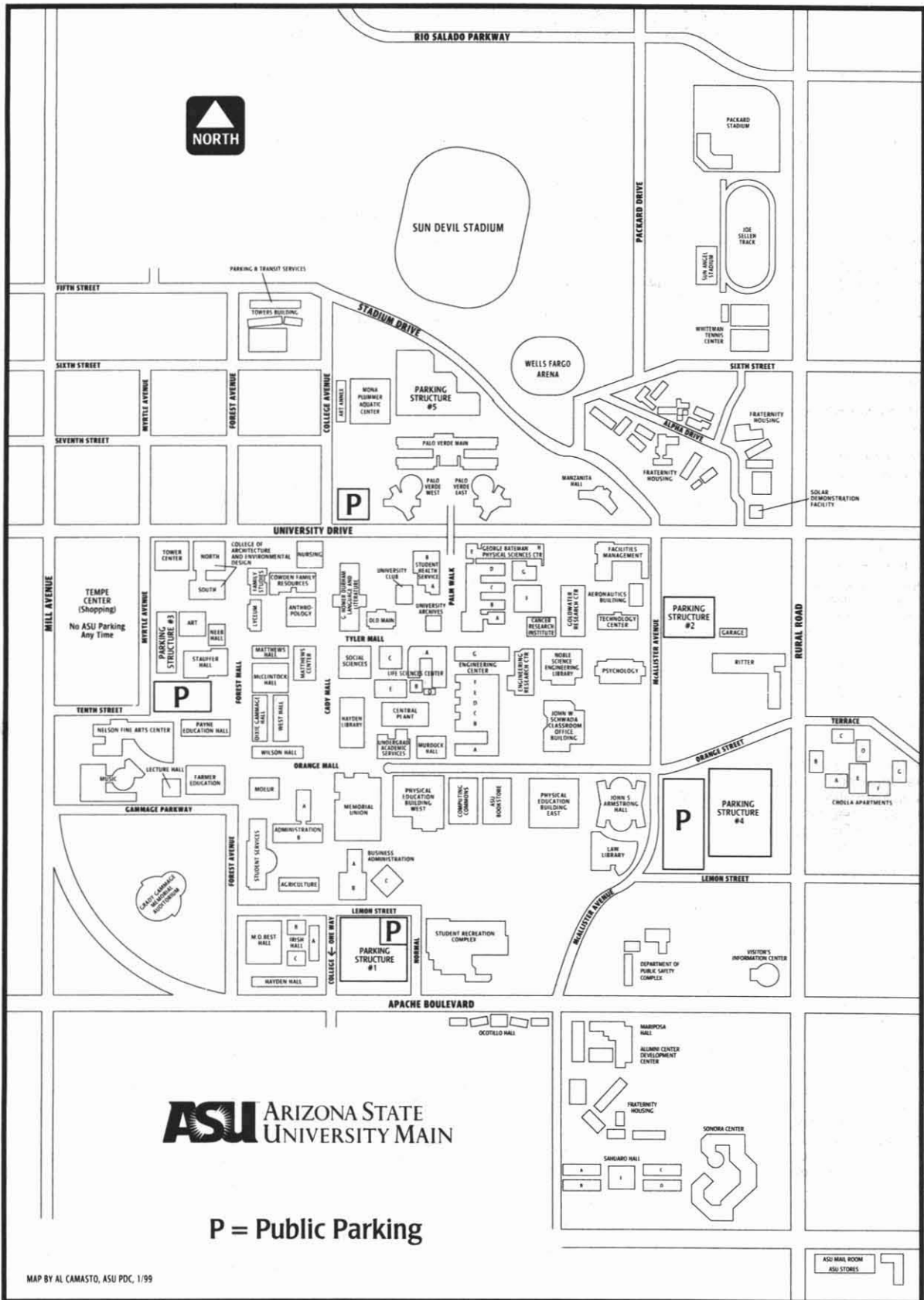


P = Public Parking

MAP BY AL CAMASTO, ASU PDC, 1/99







ASU ARIZONA STATE UNIVERSITY MAIN

P = Public Parking

MAP BY AL CAMASTO, ASU PDC, 1/99

ASU MAIL ROOM
ASU STORES

ASU Main Directory

For the "ASU East Directory," see page 573. For the "ASU West Directory," see page 583. Effective Sept 1, 1999, the area code is 480 for all numbers at ASU Main, ASU East, and Downtown Center but remains 602 for ASU West.

Admissions

Graduate	W LSN 101	965-6113
Law	LAW 101	965 1474
Readmissions (Undergraduate)	SSV 140.	965 7440
Undergraduate	SSV 101.....	965 7788

Architecture and Environmental

Design, College of	ARCH 134	965-8169
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

Arizona Prevention Resource Center

.....	DTC B2	727-2772
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Associated Students of ASU (ASASU)

.....	MU 310	965-3161
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ASU Alumni Association

Alumni Advocacy Programs	V C.....	965-4078
Alumni Relations and Career Programs	V C.....	965-2133
Alumni Relations and Reunions.....	V C.....	965-5074
Alumni Relations, Eastern U.S.	V C	965-7754
Alumni Relations, Western U.S. and Scholarships	V C	965 9296
ASU West Alumni Programs	FAB S361.....	543-2586
Athletic Programs and Alumni Relations	MARIP	965-5357
Career Programs, College Associations, Continuing Education and Reunions	VIC	965 2133
Communications	MARIP	965-8150
Homecoming, Founder's Day and Student Relations	VIC	965-4282
Legislative Network.....	VIC	965-4078
Membership Marketing	MARIP	965-8346
Nongeographic Chapters, Recruiting Scholarships, and Geographic Chapters	VIC	965-5074

ASU East (see page 573)

ASU/Phoenix Educational Opportunity Center 894-8451

ASU West (see page 509)

Bookstore, ASU..... BKSTR

Business, College of..... BA 123..... 965-4227

Accountancy and Information Management, School of	BA 223.....	965 3631
Economics Department of	BAC 659	965-3531
Finance, Department of	BAC 519	965-3131
Health Administration and Policy School of	BAC 554	965 7778
International Business Studies	BA 122	965 4066
Management, Department of	BA 323	965-3431
Marketing Department of	BAC 460	965 3621
Small Business Programs	BAC 111	965-3962
Supply Chain Management, Department of	BA 318	965-3231
Campus Dining Services	MU 138	965-3464

Career Services..... SSV 359..... 965-2350

Child and Family Services..... MU 14C..... 965-9515

Cocurricular Programs and Service

SSV 180..... 965-9600

Counseling and Consultation SSV 334..... 965-6146

Disability Resources

for Students.....MCENT first floor

TTY.....	965 9000
Voice.....	965 1234

Drop/add and withdrawal

information SSV 140..... 965-3124

Education, College of..... EDB 104..... 965-3306

Center for Bilingual Education	ED 414	965-7134
Center for Indian Education	ED 415	965-6292
Computer Support	EDB 159	965-2126
Curriculum and Instruction, Division of	ED 409	965-1644
Curriculum and Instruction, Graduate Program Office (Adv s'ng)	ED 412	965 4602
Educational Leadership and Policy Studies Division of	ED 108	965-6248
Professional Field Experiences (Student Teaching)	EDB 2	965 6255
Psychology n Education Division of	EDB 301	965-3384
Psychology n Education Admissions Information (recording; voice mail)		965 6420
Recruitment and Support Programs (Tutoring Scholarships)	EDB 42	965-5555
Student Affairs (Undergraduate Adv s'ng)	EDB 7	965-5555

Educational Opportunity Center..... 894-8451

Engineering and Applied

Sciences, College of..... EC G100

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, De E. Webb School of	SCOB 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

Equal Opportunity/

Affirmative Action..... ADM B171

965-5057

TTY

965-0471

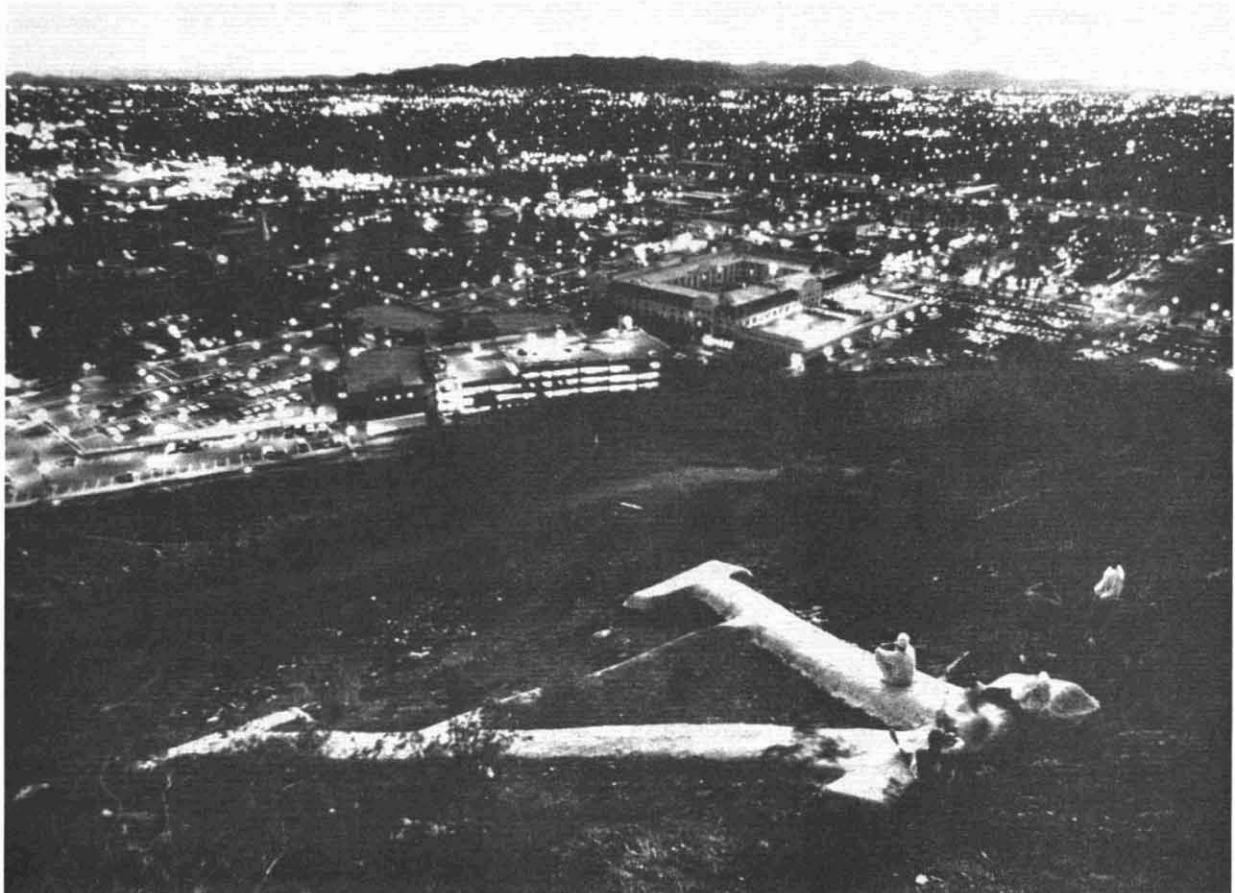
Extended Education,

College of..... ASUDC C319..... 965-9696

Academic and Professional Programs	RITT B132	965 9797
American English and Culture Program.....	IRISH 3D	965 2376
ASU Downtown Center	ASUDC	965-3046
ASU Sun C'tes	SUNDM B	546 9659
Communications and Marketing	ASUDC C319	965 9696
Computer Technology Programs	ASUDC C250	965-9200

Development and Outreach	ASUDC C319....	727-5330		
Distance Learning Technology.....	RITT A129	965 6738		
Extended Campus Programs.....	ASUDC C250....	965-3046		
Independent Learning.....	RITT B132	965-6563		
	or 1-800-533-4806			
Operations and Finance.....	ASUDC C319...	965-9696		
Professional and Continuing Education	ASUDC C250...	965-3046		
FASTT		968-4400		
Fine Arts, College of	GHALL 132	965-6536		
Art School of	ART 102	965 3468		
Dance Department of	PEBE 107B	965 5029		
Music, School of	MUSIC 183	965 3371		
Theatre, Department of	GHALL 232	965-5359		
Graduate College	WILSN lobby	965-3521		
Admissions	W LSN 101	965 6113		
Adv s ng Off ce	W LSN lobby	965 3521		
Financial Assistance	W LSN 120	965 3521		
Graduation Section				
Commencement Off ce	ADM B167	965-6611		
Graduate Div s on	SSV 140.....	965-6980		
Undergraduate Div s ion	SSV 140.	965 3256		
Greek Life	MU N340	965-2249		
Information Technology				
Computer Accounts Office	CPCOM 105	965 1211		
Comput ng Sites	CPCOM			
	atrium	965-4459		
	BAC 16	965 3074		
	ECG 150	965 6280		
	GWC 185	965-4307		
Comput ng Site Hours.....		965-6500		
Customer Assistance Center.....	CPCOM 202	965-5939		
Geographic Informat on				
Systems Lab.....	CPCOM 235	965 4007		
Help Desk	CPCOM 202	965 6500		
nstruction Support Lab.	CPCOM 216	965-6739		
V sua'zat on Center	CPCOM 235	965-9699		
Interdisciplinary Programs				
Bachelor of Interdiscip nary				
Studies (BIS)	UASB 200	965 1970		
Creative Wr t ng (M.F.A.)	LL C346	965 7454		
Curriculum and				
nstruction (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 Mater as (Ph D)	PS B135.	965-2460		
Speech and Hear ng				
Science (Ph.D)	CMSC 146	965 2373		
Statistics (M.S)	BAC 570	965 2671		
International Programs	MOEUR 124	965-5965		
International Student				
Programs.....	SSV 265	965-7451		
International Undergraduate				
Admissions	SSV 101	965-2688		
InTouch		350-1500		
Law, College of	LAW 101	965-6181		
TTY		965 2048		
Learning Resource Center	SSV A361	965-6254		
Liberal Arts and Sciences,				
College of	SS 111	965-6506		
Aerospace Studies,				
Department of	TC 311	965-3181		
African American Studies	AG 201	965 4399		
Anthropology, Department of	ANTH A124	965-6213		
Bi ogy, Department of	LS C226	965-3571		
Chemistry and Biochemistry				
Department of	PS D102	965-3461		
Chicana and Ch cano Studies,				
Department of	GHALL 212 ...	965 5091		
English, Department of.....	LL B504	965 3168		
Exercise Science and Physical				
Education, Department of	PEBW M212...	965 3875		
Family Resources and Human				
Development, Department of	HEC 106	965-6978		
Geography Department of.....	SCOB 338	965 7533		
Geology, Department of	PS F686	965 5081		
History Department of	SS 204	965-5778		
Interdiscip nary Humanities				
Program	LL C352	965-6747		
Languages and Literatures				
Department of	LL B404	965-6281		
Mathematics Department of	PS A216	965-7195		
Microbiology Department of.....	LS E210	965 1457		
Military Science Department of.....	TC B100	965-3318		
Philosophy Department of	PS A524	965-3394		
Physics and Astronomy				
Department of	PS F470	965 3561		
Plant Biology Department of	LS E218	965 3414		
Political Science, Department of	SS 410	965-6551		
Psychology Department of	PSY 237	965-3326		
Religious Studies, Department of	EC A377	965-7145		
Sociology, Department of	SS 321	965-3546		
Speech and Hear ng Science				
Department of	LL A145	965 2374		
Women's Studies Program.....	EC A209	965-2358		
Memorial Union				
Activities Board	MU third leve	965-6822		
Administration	MU first eve	965 5309		
Information Desk	MU first eve	965 5728		
Lost and Found	MU first eve	965-5728		
Reservations	MU first eve	965-3406		
Multicultural Advancement				
Program	SSV A361	965-6060		
Nursing, College of	NUR 344	965-3244		
Community Health Services C n c		941-9283		
Continuing and Extended				
Education	NUR 477	965-7431		
Student Service Off ce	NUR 108	965-2987		
Off-Campus Student				
Employment	SSV C202	965-6318		
On-Campus Student				
Employment	SSV C202	965-5186		
Operator, University		965-9011		
Orientation, New Student	SSV A279	965-7788		
Parents Association	SSV A278	965-7788		
Public Programs, College of	WILSN 234	965-1034		
Advanced Public Executive				
Program (APEP)	ASUDC C110....	965 4006		
American Indian Studies	MHALL 220	965 3634		
Asian Pacific American Studies	GHALL B2	965 9711		
Center for Urban Inquiry	AG 342A	965-9216		
Communication, Department of	STAUF A412.	965-5095		
Journalism and Telecommunication,				
Water Cronk'ite School of	STAUF A231..	965-5011		
Justice Studies, School of	WILSN 331..	965 7682		
Morrison Institute for Public				
Policy	UVCM 203	965 4525		
Public Affairs School of	WILSN 208...	965 3926		
Recreation Management and				
Tourism Department of	MOEUR 131..	965-7291		
Social Work, School of	WHALL 135	965-3304		
Readmissions				
(Undergraduate).....	SSV B114	965-7440		
Registrar	SSV B114			
Expedite		968-5988		
nTouch		350 1500		
TTY		965 3236		
Vo ce		965-3124		

Residency Classification SSV B115	965-7712	Bachelor of Interdisciplinary Studies (BIS).....	UASB 200.....	965-1970	
Residential Life	SSV A131	965-3515	Campus Match	ED 403	965-3097
Student Financial Assistance	SSV C219	965-3355	Cross-college Advising Services (CAS)	UASB 131.....	965-4464
Student Health	SHS	965-3346	Degree Audit Reporting System (DARS).....	UASB 100.....	965-8012
Appointments	965-3349		General Studies.....	UASB 200.....	965-5657
Fax	965-8914		Service Learning	UASB 200.....	965-3097
Measles verification information.....	965-1358		Summer Bridge	ED 403	965-3097
Student ID	UASB 140	965-2273	Supplemental Instruction.....	ED 403	965-3097
Student Leadership Programs	MU N340.....	965-2249	University Success Courses.....	ED 403	965-3097
Student Life	SSV B228	965-6547	Writing Across the Curriculum Support and Development	UASB 200.....	965-3097
Student Organization Resource Center	MU N340.....	965-2249	Writing Centers.....	LLB 302.....	965-4272
Student Media	MCENT 2	965-7572	University Evaluation, Office of	AG 281	965-9291
State Press Advertising	965-6555		University Honors College	MCL 112	965-2359
State Press Information	965-7572		University Libraries	LIB	
State Press Newsroom	965-2292		Circulation	965-3605	
Student Recreation Complex and Recreational Sports	SRC 220	965-8900	Hours	965-3415	
Summer Sessions, Office of	ADM B167	965-6611	Information	965-6164	
Summer International Programs	ADM B167	965-6611	Renewal by telephone	965-2595	
Testing Support Services	SSV B322	965-6777	University Testing Services	EDB 302.....	965-7146
Transcripts (outgoing)	SSV B113	965-3171	Upward Bound	SSV A279	965-6483
Undergraduate Academic Services, Division of	UASB		Veterans Services Section	SSV B117	965-7723
			Veterans Upward Bound	IRISH 7.....	965-3944



Night view of Tempe and ASU Main campus from A-Mountain

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. Emeriti are included.

A

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

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

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

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

Abston, Deborah 1990, Associate Librarian, Access Services, Hayden Reference Service; B.S., M.S.L.S., Wayne State University

Acereda, Alberto (1998), Assistant Professor of Latin American Literature; Licenciado, University of Barcelona (Spain), M.A., Ph.D., University of Georgia

Acevedo, Roberto M. (1964), Professor Emeritus of Spanish, B.A., University of California, Berkeley, M.A., Ph.D., University of Arizona

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

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

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

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

Adams, James B. 1996, Professor of Materials Science and Engineering, Interim Codirector, Science and Engineering of Materials; B.S., Duke University, M.S., Ph.D., University of Wisconsin, Madison

Adams, Karen L. (1984), Associate Professor of English, Director, Program for Southeast Asian Studies, B.A., M.A., Ph.D., University of Michigan

Adelman, Madelaine 1998, Assistant Professor of Justice Studies, A.B., Ph.D., Duke University

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

Aerni, Wayne (1991), Faculty Associate of Public Affairs, B.A., University of Oregon, M.P.A., D.P.A., Arizona State University

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

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

Ahn, Seung C. (1990), Associate Professor of Economics, B.A., Sogang University (Korea), M.A., Ph.D., Michigan State University

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

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

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

Alberts, Jess K. 1989, Associate Professor of Communication, Chair, Department of Communication; B.S.Ed., M.A., Abilene Christian University; Ph.D., University of Texas, Austin

Alcock, John 1972, Regents' Professor of Biology; B.A., Amherst College, Ph.D., Harvard University

Alcorn, Marianne S. (1981), Law Librarian, Reference; B.A., University of Washington, M.L.S., University of Southern California

Aldama, Arturo 1996, Assistant Professor of Chicana and Chicano Studies; B.A., Evergreen State University; M.A., Ph.D., University of California, Berkeley

Aldrich, Frank T. (1969), Associate Professor of Geography, B.A., University of Texas, Austin; M.S., Ph.D., Oregon State University

Alexander, Robert J. 1975, Professor of German, B.A., Macalester College; M.A., Ph.D., University of Wisconsin, Madison

Alford, Terry L. 1993, Associate Professor of Materials Science and Engineering; B.S., M.S., North Carolina State University, Raleigh, Ph.D., Cornell University

Alisky, Marvin 1957, Professor Emeritus of Political Science; B.A., M.A., Ph.D., University of Texas, Austin

Allee, David R. (1991), Associate Professor of Electrical Engineering, B.S.E.E., University of Cincinnati, M.S.E.E., Ph.D., Stanford University

Allen, Craig M. 1991, Associate Professor of Journalism and Telecommunication, B.A., Linfield College; M.S., University of Oregon, Ph.D., Ohio University

Allen, James P. 1989, Associate Professor of Chemistry and Biochemistry; B.S., Saint Joseph's University; M.S., Ph.D., University of Illinois

Allison, Maria T. (1984), Professor of Recreation Management and Tourism, B.S., M.S., University of New Mexico, Ph.D., University of Illinois

Allstot, David J. 1998, Professor of Electrical Engineering; B.S.E.S., University of Portland, M.S.E.E., Oregon State University; Ph.D., University of California, Berkeley

Alozie, Nicholas O. (1991), Associate Professor of Public Affairs; B.A., M.P.A., Texas Southern University; M.A., Ph.D., University of Texas, Dallas

Alpers, Rojann (1995), Assistant Professor of Nursing, B.S.N., M.S., Arizona State University, Ph.D., University of Iowa

Alquist, Lewis R. (1984), Professor of Art, B.F.A., Florida Atlantic University, M.F.A., Cranbrook Academy of Art

Altheide, David L. 1973, Regents' Professor of Justice Studies, B.A., Central Washington State College, M.A., University of Washington, Ph.D., University of California, San Diego

Alvarado, Ronald H. (1974), Professor Emeritus of Biology, B.A., University of California, Riverside, M.S., Ph.D., Washington State University

Alvarez, Robert 1998, Instructor of Military Science Administration

- Alvarez, Robert R. Jr.** 1989 , Professor of Anthropology, B.A., Northern Arizona University, M.A., San Diego State University, M.A. Ph.D., Stanford University
- Ames, James G.** (1985), Senior Research Associate, Manufacturing Institute; B.S., San Diego State University
- Amundson, Susan** 1995 , Assistant Professor of Supply Chain Management B.S., Moorhead State University, M.B.A., College of St. Thomas, Ph.D., University of Minnesota
- Anderson, Douglas A.** 1979 , Cronkite Endowment Board of Trustees Professor of Journalism and Telecommunication, Director, Walter Cronkite School of Journalism and Telecommunication; B.A., Hastings College, M.S., Kearney State College, Ph.D., Southern Illinois University, Carbondale
- Anderson, Edward F.** 1993 , Adjunct Professor of Plant Biology; B.A., Pomona College; M.A., Ph.D., Claremont Graduate School and Rancho Santa Ana Botanic Garden
- Anderson, Gary** (1975 , Associate Professor of Reading and Library Science, B.S., M.Ed., Edinboro State College, Ph.D., University of Pittsburgh
- Anderson, James R.** (1984), Associate Research Scientist of Chemistry and Biochemistry, B.A., Williams College; Ph.D., California Institute of Technology
- Anderson, Karen** 1987 , Faculty Associate of Nursing, B.S., M.S., Arizona State University
- Anderson, Marcia L.** 1986 , Librarian, Collection Development, B.A., University of Michigan, M.L.S., Wayne State University
- Anderson, Melvin S.** 1967 , Professor Emeritus of Finance; B.S., M.S., Oklahoma State University, Ed.D., University of Arkansas
- Anderson-Rowland, Mary R.** 1974 Associate Professor of Industrial and Management Systems Engineering, Associate Dean, Student Affairs and Special Programs; B.A., Hope College, M.S., Ph.D., University of Iowa
- Andress, Barbara L.** (1972), Professor Emeritus of Music, B.A., M.A., Arizona State University
- Angell, C. Austen** 1989 , Regents' Professor of Chemistry and Biochemistry; B.S., M.S., Melbourne University (Australia); Ph.D., University of London (United Kingdom)
- Anijar, Karen Z.** (1998 Assistant Professor of Elementary Education, B.A., Florida State University, M.A., Ph.D., University of North Carolina, Greensboro
- Appleton, Nicholas R.** 1972 Professor of Educational Policy Studies, Director, Division of Curriculum and Instruction, Associate Dean for Teacher Education; B.A., San Francisco State University, M.A., California State University, Northridge, Ed.D., University of Massachusetts, Amherst
- Aranda, Luis** (1975 , Associate Professor of Legal and Ethical Studies, B.M., M.Ed., University of Arizona J.D., Arizona State University
- Arciniega, G. Miguel** (1979 , Associate Professor of Counselor Education, B.S., M.A., New Mexico State University; Ph.D., University of Arizona
- Arias, M. Beatriz** 1989), Associate Professor of Multicultural Education, B.A., M.A., Occidental College, Ph.D., Stanford University
- Armbruster, Charlotte** 1997 , Faculty Associate of Nursing; B.S.N., M.S., Arizona State University
- Armbruster, Dieter** 1989 , Professor of Mathematics; Associate Chair, Graduate Studies, Abitur, Zeppelin Gymnasium (Germany) · Diplom., Ph.D., University of Tübingen (Germany)
- Arment, Brad** (1989 , Associate Professor of Philosophy, Chair, Department of Philosophy, B.A., Rice University, Ph.D., University of Illinois, Chicago
- Armstrong, Robert L.** 1967), Professor Emeritus of Secondary Education, B.A., State Teachers College of Iowa; M.S., University of Iowa; Ed.D., University of Arizona
- Arner, Douglas G.** 1959), Professor Emeritus of Philosophy, B.S., Creighton University; M.A., Ph.D., University of Michigan
- Arnold, William E.** 1973 , Professor of Communication, Director, Gerontology Program, B.S., M.A., Northern Illinois University, Ph.D., Pennsylvania State University
- Arntzen, Charles J.** (1997 , Adjunct Professor of Plant Biology, B.S., M.S., University of Minnesota, Ph.D., Purdue University
- Aronson, Jerome M.** 1966), Professor Emeritus of Plant Biology, B.A., Ph.D., University of California, Berkeley
- Arreola, Daniel** 1990 , Professor of Geography B.A., University of California, Los Angeles, M.A., California State University, Hayward Ph.D., University of California - Los Angeles
- Arrowsmith, Ramon** 1995 , Assistant Professor of Geology, B.A., Whittier College, Ph.D., Stanford University
- Arterian, Hannah** 1979 , Professor of Law, Associate Dean, College of Law, B.A., Elmira College, J.D., University of Iowa
- Ashcraft, Robert F.** (1995 , Assistant Professor of Recreation Management and Tourism, Director, Nonprofit Leadership and Management Program, B.A., University of Arizona, M.A., Northern Arizona University; Ph.D., Arizona State University
- Ashcroft, Edward A.** 1988 , Professor of Computer Science and Engineering; B.A., Cantab. United Kingdom, Ph.D., Imperial College of London (United Kingdom)
- Ashe, Robert W.** (1955 , Professor Emeritus of Education, B.A., M.A., Arizona State University, Ed.D., University of Southern California
- Ashford, Jose B.** (1984 , Professor of Social Work, B.A., Loyola University, New Orleans, M.S.W., Ohio State University; Ph.D., Bowling Green State University
- Ashforth, Blake** 1996 , Professor of Management, B.Comm., Ph.D., University of Toronto (Canada)
- Ashley, Richard** (1981 , Associate Professor of Political Science, B.A., University of California, Santa Barbara, M.A., Ph.D., Massachusetts Institute of Technology
- Atsumi, Takayori P.** (1968 , Professor of Music; B.F.A., Kunitachi Music College Japan ; M.M., New England Conservatory of Music
- Augsburg, Tanya** 1997 , Lecturer, Division of Undergraduate Academic Services; B.A., New York University; M.A., Ph.D., Emory University
- Aulerich, Christopher E.** 1989 , Faculty Associate, Del E. Webb School of Construction
- Ax, Leland S.** 1959), Professor Emeritus of Engineering, B.S.E., B.S.R.E., Tri State College; M.S., Kansas State College
- Axelrod, Morris** (1972), Professor Emeritus of Sociology, B.A., Ph.D., University of Michigan
- Axford, Roger W.** (1975 , Professor Emeritus of Secondary Education, B.A., Nebraska Wesleyan University; M.A., Ph.D., University of Chicago
- Azuma, Tamiko** (1998), Assistant Professor of Speech and Hearing Science; B.A., University of California, Santa Cruz; M.A., Ph.D., Arizona State University

B

- Backhaus, Ralph A.** 1977), Professor of Plant Biology; B.S., Rutgers, The State University of New Jersey; M.S., Ph.D., University of California, Davis
- Backus, Charles E.** (1968 , Professor of Electrical Engineering, Provost, Arizona State University East; B.S.M.E., Ohio University; M.S., Ph.D., University of Arizona
- Bacon, Catherine K.** 1990), Clinical Associate Professor of Speech and Hearing Science, B.A., University of California, Santa Barbara, M.A., University of Minnesota
- Bacon, Sid P.** (1988 , Professor of Speech and Hearing Science, B.G.S., M.A., University of Kansas, Ph.D., University of Minnesota, Twin Cities

- Bacon, Thomas** 1993, Professor of Music, B.S., Oakland University
- Badger, William W.** 1985, Professor of Construction, Director, Del E. Webb School of Construction; B.S.M.E., Auburn University; M.S.C.E., Oklahoma State University; Ph.D., Iowa State University
- Baer, Steven M.** 1988, Associate Professor of Mathematics; B.S., M.S., Ph.D., University of Illinois
- Bagwell, Marilyn** (1972), Associate Professor of Nursing, B.S.N., University of California Los Angeles; M.A., Arizona State University, Ph.D., Texas Woman's University
- Bahr, Donald M.** (1967), Professor of Anthropology; A.B., M.A., Ph.D., Harvard University
- Bailey, James E.** (1974), Professor of Industrial and Management Systems Engineering; B.S.I.E., M.S.I.E., Ph.D., Wayne State University
- Baker, Aaron** (1992), Assistant Professor of Interdisciplinary Humanities, B.A., Hobart College; M.A., Ph.D., Indiana University
- Baker, Brenda J.** (1998), Assistant Professor of Anthropology; B.A., Northwestern University, M.A., Ph.D., University of Massachusetts, Amherst
- Baker, Dale R.** (1989), Professor of Secondary Education, B.A., University of Oklahoma; M.A.T., Trenton State College, Ed.D., Rutgers, The State University
- Baker, Dwayne A.** (1997), Assistant Professor of Recreation Management and Tourism; B.S., University of Saskatchewan (Canada); M.S., University of Illinois; Ph.D., Texas A&M University
- Baker, Lawrence A.** 1992, Assistant Professor of Civil and Environmental Engineering; B.S., Pennsylvania State University; M.S., Utah State University, Ph.D., University of Florida
- Balanis, Constantine A.** 1983, Regents' Professor of Electrical Engineering, Director, Telecommunications Research Center, B.S.E.E., Virginia Polytechnic Institute and State University, M.E.E., University of Virginia, Ph.D., Ohio State University
- Balasubramanian, Krishnan** (1983), Professor of Chemistry and Biochemistry, M.Sc., Birla Institute of Technology Science (India); M.A., Ph.D., Johns Hopkins University
- Balcazar, Hector** (1989), Associate Professor of Family Resources and Human Development; B.S., Iberoamericana University (Mexico), M.S., Ph.D., Cornell University
- Baldini, Pier Raimondo** 1978, Professor of Italian; B.A., San Francisco State University; M.A., University of British Columbia (Canada); Ph.D., University of California, Los Angeles
- Ball, Terence** 1998, Professor of Political Science; B.A., University of California, Santa Cruz, M.A., Ph.D., University of California, Berkeley
- Ballew, Tad** (1998), Assistant Professor of Interdisciplinary Humanities; B.A., University of California, Santa Barbara; M.A., Hunter College, City University of New York
- Balling, Robert C.** (1987), Professor of Geography, Director, Climatology Laboratory; A.B., Wittenberg University; M.A., Bowling Green State University, Ph.D., University of Oklahoma
- Ballon-Aguirre, Enrique** 1992, Professor of Spanish, Bachiller en Letras, Bachiller en Derecho, University of Arequipa (Peru), Doctor en Literatura, The National University of San Marcos (Peru), Doctorat en Etudes Iberiques, University of Paris III (France)
- Balogh, Stephen** (1998), Lecturer of Computer Information Systems, School of Accountancy and Information Management; B.S., M.A., Ph.D., Ohio State University
- Bantz, Charles R.** 1986, Professor of Communication, Vice Provost, Office of the Senior Vice President and Provost; B.S., M.A., University of Minnesota, Twin Cities; Ph.D., Ohio State University
- Barcelo, H el ene** 1990, Associate Professor of Mathematics; M.S., University of Quebec, Canada, Ph.D., University of California, San Diego
- Bardrick, Richard A.** (1956), Professor Emeritus of Psychology, A.B., Ph.D., University of California Los Angeles
- Barker, David** 1983, Professor of Theatre; B.S.E., Duquesne University, M.F.A., Rutgers, The State University
- Barkley, Margaret V.** (1963), Professor Emeritus of Family Resources and Human Development; B.S., Millikin University; M.S., Ed.D., University of Illinois
- Barlow, Richard B.** 1964, Professor Emeritus of History, B.A., M.A., Ph.D., University of Pennsylvania
- Barnard, John P.** (1991), Associate Learning Resources Specialist, Library Instruction, Systems, and Technology; B.S., State University of New York, M.Ed., Arizona State University
- Barnes, Andrew** (1996), Associate Professor of History, B.A., Wesleyan University; M.A., Ph.D., Princeton University
- Barona, Andr es** 1986, Professor of Education, B.S., M.Ed., Texas A&M University, Ph.D., University of Texas Austin
- Barone, Thomas** 1990, Professor of Curriculum and Instruction and Educational Leadership and Policy Studies; B.A., Loyola University, New Orleans; M.A., University of New Orleans, Ed.D., Stanford University
- Barrera, Manuel** 1977, Professor of Psychology, B.S., University of Wisconsin, Eau Claire; M.A., Ph.D., University of Oregon
- Barrett, Marianne** (1994), Assistant Professor of Journalism and Telecommunication, B.S., Kutztown University, M.P.S., Syracuse University, Ph.D., Michigan State University
- Barroll-Aschaffenburg, Rayna** (1980), Associate Professor of Music, B.M., University of Texas; D.M.A., University of Maryland, College Park
- Bartels, Robert D.** (1981), Professor of Law; B.A., University of Michigan; J.D., Stanford University
- Barton, C. Michael** (1987), Associate Professor of Anthropology, Collections Administrator; B.A., University of Kansas; M.A., Ph.D., University of Arizona
- Bartz, Donna R.** 1968, Professor of Theatre, B.F.A., M.A., University of Colorado
- Bashford, Howard H.** (1997), Associate Professor of Construction; B.S., M.S., University of Wyoming; Ph.D., Brigham Young University
- Batalden, Stephen K.** 1976, Professor of History, Coordinator of Russian, East European Studies Consortium; B.A., Augsburg College, M.A., Ph.D., University of Minnesota
- Bates, Dawn W.** (1989), Associate Professor of English, B.A., Ph.D., University of Washington
- Bates, Mary** (1996), Professor of Art; B.F.A., Colorado State University, M.F.A., Indiana University
- Baty, Wayne M.** (1962), Professor Emeritus of General Business, B.S., Southwest Missouri State College; M.A., Northwestern University, Ph.D., University of Southern California
- Bauer, Ernst** 1990, Distinguished Research Professor of Physics and Astronomy, Diplom. Dr. rer. nat., University of Munich (Germany)
- Baxter, Harry R.** 1982, Professor Emeritus of Engineering, B.A., New York University, M.B.A., Fairleigh Dickinson University, M.Tech., Arizona State University
- Bazzi, Rida** (1996), Assistant Professor of Computer Science and Engineering, B.E., American University of Beirut (Lebanon), M.S., Ph.D., Georgia Institute of Technology
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- 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
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- 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
- 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
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- Wixted, J. Timothy** (1978), Professor of Asian Languages, B.A., University of Toronto, Canada, A.M., Stanford University; D.Phil., University of Oxford (United Kingdom)
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- 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
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To January 2004 Kay McKay
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Dean, College of Architecture and
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College of Extended Education

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College of Nursing

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ASU East

See "ASU East Administrative Personnel," page 577.

ASU West

See "ASU West Administrative Personnel," page 590.



A full house at ASU Sun Devil Stadium, site of college football's first true national championship game, the 1999 Fiesta Bowl.

Tim Trumble photos

ASU East

Charles E. Backus, Ph.D.
Provost



The ASU East Technology Center

John MacIsaac photo

Morrison School of Agribusiness and Resource Management	543	Department of Information and Management Technology	561
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Arizona State University East was established in 1996 at the former Williams Air Force Base, 23 miles southeast of ASU Main. There, ASU East and its educational partners have created the Williams Campus—a residential academic community focused on meeting the needs of students, business, industry, and the larger community. The 600-acre Williams Campus offers a small college environment with access to the amenities of a major metropolitan area and the resources of a major research university.

ASU East offers degree programs that help students develop knowledge and skills they need for success in their professional, civic, and personal lives in the 21st century. Eight baccalaureate degree programs, two master's degree programs, and one certificate program can now be completed at ASU East, with additional programs in the planning stages. (See the "ASU East Baccalaureate Degrees and Majors" table, page 541.) The College of Technology and Applied Sciences offers a master's degree and a range of bachelor's programs in high demand areas of technology, the only programs of their kind in Arizona. The unique bachelor's and master's degrees in Agribusiness offered by the faculty in the Morrison School of Agribusiness and Resource Management lead to careers in one of the fastest growing sectors of global business. East College offers a range of supporting courses for all ASU East programs and, in cooperation with the College of Education at ASU Main, is offering the professional program in Elementary Education to help meet the demand for highly qualified teachers in the state. Additional East College programs continue to be developed. Students who are uncertain of their major may start college at ASU East as East College/No Preference majors.

Although it is a young campus, ASU East has already developed significant student-centered innovations in higher education that have earned national recognition.

ASU East assumed leadership in Arizona in developing and offering the Bachelor of Applied Science (B.A.S.) degree, a new program designed specifically as a career progression degree for students holding the Associate of Applied Science (A.A.S.) degree. The B.A.S. emphasizes management, leadership, and communication skills, along with additional technical course work. The first students were admitted to the program in the fall semester of 1998.

ASU East has also developed an innovative academic partnership with Chandler Gilbert Community College (CGCC). This partnership combines the strengths of the two institutions to provide ASU students with high quality education in a cost-effective way. CGCC provides lower-division

general education and major prerequisite courses that are directly equivalent to ASU courses and transfer automatically. ASU East provides both lower- and upper-division courses in the major and upper-division general studies and general interest courses. Through the partnership, students can get at the Williams Campus all the courses needed to graduate in four years with an ASU baccalaureate degree, generally at some savings in tuition.

New facilities, new programs, and new opportunities are constantly emerging at ASU East. The campus is easily accessible via major interstate routes. See the map on page 572. For the latest information, call 480/727-EAST (3278) or check the Web site at 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). For more 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

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 "ASU East Faculty and Academic Professionals," page 574, and "Academic Organization," page 8.

ADMISSION

Nondegree Students. Nondegree students may take courses at ASU East according to the special provisions under "Admission of Nondegree Applicants—Undergraduate," page 63.

Academic Advising

College or School	Location	Telephone ¹	Days	Hours ²
Morrison School of Agribusiness and Resource Management	CNTR 20	727 1585	Mon. Fri.	8 A.M. - 5 P.M.
East College	CNTR 92	727 1515	Mon. Fri.	8 A.M. - 5 P.M.
College of Technology and Applied Sciences	CNTR 10	727 1252	Mon. Fri.	8 A.M. - 5 P.M.
University Honors College	MCL 112 ³	965 2359	Mon. Fri.	8 A.M. - 5 P.M.

¹ Effective September 1, 1999, the area code is 480 for all numbers at ASU Main, ASU East, and Downtown Center but remains 602 for ASU West.

² Appointments are recommended.

³ The University Honors College is located at ASU Main.

ASU East Baccalaureate Degrees and Majors

Major	Degree	Administered by
Aeronautical Engineering Technology ¹	B.S.	Department of Manufacturing and Aeronautical Engineering Technology
Aeronautical Management Technology Concentrations: airway science flight management, airway science management	B.S.	Department of Aeronautical Management Technology
Agribusiness Concentrations: food science, general agribusiness, international agribusiness, preveterinary medicine, professional golf management, resource management	B.S.	Morrison School of Agribusiness and Resource Management
Applied Science Concentrations: aviation maintenance management technology, aviation management technology, computer systems administration, consumer products technology, digital media management, digital publishing, emergency management, fire service management, food retailing, instrumentation, microcomputer systems, operations management, production technology, resource team specialist, semiconductor technology, software technology applications, technical graphics	B.A.S.	Bachelor of Applied Science Advisory Committee
Electronics Engineering Technology ¹ Concentrations: computer systems, electronic systems, microelectronics, telecommunications	B.S.	Department of Electronics and Computer Engineering Technology
Elementary Education Concentration: bilingual education/English as a second language	B.A.E. ²	College of Education/East College
Industrial Technology Concentrations: environmental technology management, industrial technology management, information technology	B.S.	Department of Information and Management Technology
Manufacturing Engineering Technology ¹ Concentrations: manufacturing engineering technology, mechanical engineering technology	B.S.	Department of Manufacturing and Aeronautical Engineering Technology

¹This major requires more than 120 semester hours to complete.

²This program is administered by the College of Education. See "College of Education," page 176.

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 480/727 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 applies 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 transfer according to equivalencies established in the current *Arizona Higher Education Course Equivalence Guide*. (Transfer guides are available at www.asu.edu/provost/articulation.) The acceptability 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.

ASU East Graduate Degrees and Majors

Major	Degree	Administered by
Agribusiness Concentrations: agribusiness management and marketing, food quality assurance	M.S.	Morrison School of Agribusiness and Resource Management
Technology Concentrations: aeronautical engineering technology, aviation human factors, aviation management, computer systems, electronic systems, environmental technology, information technology, instrumentation and measurement technology, management of technology, manufacturing engineering technology, mechanical engineering technology, microelectronics, security engineering technology	M S Tech	College of Technology and Applied Sciences

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.

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, page 540).

DEGREE PROGRAMS

Refer to the "ASU East Baccalaureate Degrees and Majors" table, page 541. For graduate degrees, see the "ASU East Graduate Degrees and Majors" table.

CAMPUS AND STUDENT SERVICES

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. The campus includes excellent educational facilities: modern classrooms and laboratories, a 21st-century electronic library, and state of the art computer equipment. Other amenities include a dining hall, child care services, campus union, bookstore, copy center, and free parking. A shuttle service provides transportation between ASU East and ASU Main. An additional shuttle is available for transportation from ASU Main to ASU West.

Enrollment Services—OASIS

The OASIS provides one-stop services for admission, financial aid, business services, and registration. Conveniently located in the Academic Center Building, students find personnel ready to assist them with registration processes, tuition payment, financial assistance information, student employment, ASU Sun Cards (photo IDs), and parking information.

Student Support Services

Staff provide new student advising orientation programs, workshops, academic advising for undeclared majors, sup

port for international and multicultural students, students with disabilities, and tutoring services and referrals. Staff also provide career advising and assessment, career planning workshops, career exploration software programs, and internship information.

Williams Campus Housing and Residential Life

Campus housing is located in several academic villages designed to support and promote student academic success. Family resident assistants live and work in the homes and resident assistants live and work in the residence halls. There are many opportunities for students to be involved in leadership positions in residential life programs.

Residence Halls. Residence halls offer 160 large private rooms, which feature a private bath and a shared kitchenette that includes a microwave and a refrigerator. Students may elect to share a room with another student if they prefer.

Homes. More than 600 homes with two to five bedrooms are located on campus. Homes include all appliances, carpets, and storage. Single and married students, as well as faculty and staff living with their families make their home at the Williams Campus. For more information, call 480/727-1700

Library Services

Strong resources and personal service define the ASU East Library. As a primarily electronic research library, it is designed to take maximum advantage of new technology. Electronic indexes, catalogs, and journals support study and research in many fields, with an emphasis on agribusiness and technology. While the library acquires materials in all formats, by intention it prefers electronic text. Thousands of periodicals are available digitally in all subjects, while those that remain in print form can be obtained by the library quickly. Documents in electronic form can be delivered directly to students' desks by e-mail or fax. Most publications not available on campus may be obtained overnight. While most come from the other campuses of ASU, the library can obtain publications from anywhere in the world. The library's Web address is eastlib.east.asu.edu/rlib.

Computing Commons

With more than 75 workstations, the Computing Commons at ASU East provides general computing access through the campus network to the Internet and ASU Main

computer services, including e-mail and general purpose computing. The IT East department provides specialized software and systems to meet the particular needs of the ASU East programs. In addition, IT East provides computer classrooms and audiovisual materials to support the campus academic programs. IT East has a staff of support personnel to aid the campus community's computing needs, including Web development.

Williams Campus Union

The Campus Union (CU) is the center of the campus community, serving students, faculty, staff, and guests. CU facilities include meeting and study rooms, a bar room, TV lounge, coffee bar, and a game room. Programs and services such as movie nights, ice cream socials, dances, and holiday parties complement the educational mission of the Williams Campus and enhance the quality of campus life. The CU is staffed primarily by students, providing them the opportunity to develop leadership skills and a customer service orientation. For more information, call 480 727 1166 or 480 727 1098.

Williams Campus Dining

The El Mirage Dining Hall offers breakfast, lunch, and dinner Monday through Friday. Students can choose either the continental breakfast or hot breakfast buffet. Lunch and dinner offer an à la carte menu as well as à la carte options. The Coffee Bar at the CU offers muffins, rolls, and beverages for breakfast and a daily lunch special. Three meal plan options are available. Call 480 988 2903 for more information.

Recreational Facilities and Services

The Williams Campus Fitness Center is equipped with state-of-the-art weight training and cardiovascular machines, racquetball courts, and a gymnasium. Trained exercise professionals are on hand daily to provide personal training assistance. A variety of health, fitness, and sports classes are also offered at the Fitness Center. For students who prefer outdoor sports activities, the campus has basketball and tennis courts, soccer football fields, baseball fields, a running track, and swimming pool. For more information, call 480 988 8400.

Student Health Services

Health services for ASU East students are provided by the Veteran's Administration Medical Center located at the Williams Campus. Services include primary assessment and treatment of health problems and injuries, physical examinations and immunizations, women's health care, diagnostic tests, laboratory tests, X-rays, and a pharmacy. Health education and counseling, smoking cessation counseling, and wellness and health assessments are also available. Student registration fees cover the cost of office visits for full-time ASU East students. Part-time students pay a nominal fee. Some office procedures and laboratory tests require additional charges. Health insurance is not required to use the health services; however, it is strongly advised for all students and is required for international students. For more information, call 480 222 6568.

Morrison School of Agribusiness and Resource Management

Raymond A. Marquardt

Dean

(CNTR 20) 480/727-1585

www.asu.edu/east/agb

PROFESSORS

EDWARDS, GORDON, KAGAN, MARQUARDT
SEPERICH, STILES, THOR

ASSOCIATE PROFESSOR

RACCACH

ASSISTANT PROFESSORS

BURK, MANFREDO, PATTERSON, RICHARDS
SCHMITZ, STANTON

PURPOSE

The Morrison School of Agribusiness and Resource Management provides academic programs that combine business and technology. Agribusiness 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 over one-half of the Earth's global economy.

Courses in the Morrison School of Agribusiness and Resource Management are designed to prepare students for a wide range of job opportunities in agribusiness and business. 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 20.0% of 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 both urban students who have little or no previous agriculture experience as well as rural students. An interest in plants, animals, food economics, or business can be the starting point for career development in agribusiness or resource management. The undergraduate programs also provide the necessary training for students preparing to enter the graduate degree program.

CENTER FOR AGRIBUSINESS POLICY STUDIES

The Center for Agribusiness Policy Studies (CAPS) carries out research and development relating to agribusiness, technology, resource management, 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 at 480 727 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 at 480 727 1334.

DEGREES

The Morrison School of Agribusiness and Resource Management offers the B.S. degree in Agribusiness, with concentrations in food science, general agribusiness, international agribusiness, preveterinary medicine, professional golf management, and resource management

For students holding an A.A.S. degree, the school offers the Bachelor of Applied Science degree with a major in Applied Science and concentrations in consumer products technology, food retailing, and resource team specialist

The school offers the M.S. degree in Agribusiness. Students are required to complete a minimum of 30 semester hours of graduate level course work and present a thesis. See the *Graduate Catalog* for additional details

ADMISSION

The Morrison School of Agribusiness and Resource Management admits students to the B.S. degree program who meet the undergraduate admission requirements of Arizona State University. (see "Undergraduate Admission," page 60). Admission to the B.A.S. degree program is restricted to students holding an A.A.S. degree from a regionally accredited U.S. postsecondary educational institution. A GPA of 2.00 or higher is required for all resident applicants, and a 2.50 for nonresident applicants.

GRADUATION REQUIREMENTS (B.S. DEGREE)

The completion of a minimum of 120 semester hours including First Year Composition, university General Studies (see "General Studies," page 85), and the school and concentration requirements leads to the B.S. degree. Note that all three General Studies awareness areas are required. An overall GPA of 2.00 is required for graduation and students must have completed a minimum of 45 semester hours of upper division credit. See also special graduation requirements under "Preveterinary Medicine," page 545.

Prerequisite Courses

Students who select the agribusiness concentrations food science, general agribusiness, international agribusiness, or professional golf management must take the following courses, some of which can also be used to meet General Studies requirements.

Agribusiness Core (B.S.)

AGB 100 Introduction to Agribusiness	3
AGB 210 Livestock Management	3
AGB 211 Crop Management	3
AGB 310 Agribusiness Management I	3
AGB 320 Agribusiness Market ng	3

AGB 332 Agribusiness Finance	3
AGB 364 Agribusiness Technology	3
AGB 414 Agribusiness Analysis L2	3
AGB 454 International Trade	3
AGB 490 Recent Advances in Agribusiness	1

Total 28

ACC 230 Uses of Accounting Information I	3
ACC 240 Uses of Accounting Information II	3
AGB 360 Agribusiness Statistics N2	3
BIO 100 The Living World S1/S2	4
CHM 101 Introductory Chemistry S1 S2	4
ECN 111 Macroeconomic Principles SB	3
ECN 112 Microeconomic Principles SB	3
ENG 301 Writing for the Professions L1	3
MAT 210 Brief Calculus N1	3
A course in computer literacy N3	3

Total 32

CONCENTRATIONS

After completing the required agribusiness core, students select a concentration in their area of interest. A concentration allows a student to select a series of courses, that complement the agribusiness core, supplement the student's desire to master another area of interest, and broaden career opportunities

Food Science (B.S. Degree). The food science concentration focuses on both scientific and technical competency skills with an emphasis on biotechnology, food chemistry, food microbiology, mathematics, and statistics. This unique program prepares graduates for employment opportunities in the food, beverage, and dairy industries; regulatory agencies such as the FDA and USDA; international organizations, such as FAO and WHO, and consumer organizations. In addition, graduates may choose to pursue advanced degrees.

Food Science

AGB 340 Food Processing	3
AGB 440 Food Safety	3
AGB 442 Food and Industrial Microbiology	3
MIC 205 Microbiology S2	3
MIC 206 Microbiology Laboratory S2	1
AGB elective hours	6

Total 19

General Agribusiness (B.S. Degree). The general agribusiness concentration offers students a chance to build a broad perspective in the field of agribusiness. In an age of specialization there remains a growing need for generalists. These are individuals who have mastered finance, marketing, management, and other technologies such as computers and statistics and are capable of demonstrating this mastery

General Agribusiness

AGB 334 Agricultural Commodities	3
AGB 410 Agribusiness Management II	3
AGB elective hours	12

Total 18

International Agribusiness (B.S. Degree). A student studying international agribusiness is preparing for a career with a multinational corporation. This option requires a mastery of subjects in domestic and global economics, com-

modity trading and financing, international monetary exchange and other global business subjects.

International Agribusiness

AGB 411 Agricultural Cooperatives	3
AGB 450 International Agricultural Development	3
AGB 480 Agribusiness Policy and Government Regulations	3
AGB elective hours	9
Total	18

Professional Golf Management (B.S. Degree). A student studying professional golf management will be able to market, merchandise, manage personnel, and make good financial decisions that are needed to properly manage golf facilities. This program also provides the students with the background, knowledge, and encouragement needed to pursue a successful career as a golf professional and/or manager of a golf facility.

The professional golf management concentration requires a minimum of 23 hours of golf related studies, in addition to the prerequisites and agribusiness core courses. The 23 hours in the concentration include extensive internship opportunities (nine semester hours) and program related courses (14 semester hours) in subjects such as golf course operations, golf course turfgrass, club fitting and repair, pro shop merchandising, golf course mechanics, golf course shop management, first aid/CPR, and movement analysis. All golf related courses and internships are selected with the assistance of the professional golf management academic advisor and internship coordinator.

Prerequisite Courses for Prevetterinary Medicine and Resource Management

Students who select the prevetterinary medicine and resource management concentrations must take the following courses, some of which can also be used to meet General Studies requirements:

ACC 230 Uses of Accounting Information I	3
ACC 240 Uses of Accounting Information II	3
AGB 360 Agribusiness Statistics A2	3
BIO 181 General Biology S1/S2	4
BIO 182 General Biology S2	4
CHM 113 General Chemistry S1/S2	4
CHM 115 General Chemistry with Qualitative Analysis S1/S2	5
CIS 200 Computer Applications and Information Technology N3	3
ECN 111 Macroeconomic Principles SB	3
ECN 112 Microeconomic Principles SB	3
MAT 210 Brief Calculus N1	3
Total	38

Prevetterinary Medicine (B.S. Degree). 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 as 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 prevetterinary student decide not to apply to a veterinary school, this major provides alter-

native career paths into human or veterinary pharmaceutical industries or the food industry. Selection of this area permits students to complete the prevetterinary requirements to enter a professional veterinary school. The curriculum permits the student to obtain some course work in agribusiness as it relates to professional practice and industry.

Prevetterinary Medicine

Choose between the course combinations below	4-5
CHM 231 Elementary Organic Chemistry S1/S2	3
CHM 235 Elementary Organic Chemistry Lab S1/S2	1
<i>or</i>	
CHM 331 General Organic Chemistry	3
CHM 332 General Organic Chemistry	3
CHM 335 General Organic Chemistry Laboratory I	1
CHM 336 General Organic Chemistry Laboratory II	1
MIC 205 Microbiology S2	3
MIC 206 Microbiology Laboratory S2	1
Total	8-9

Resource Management (B.S. Degree). The resource management concentration combines the agribusiness concentration core with solid technical preparation in biology, chemistry, and or economics. There is a growing demand by industry and government for persons who understand both the technical and managerial basis for sustainable development, remediation, and/or utilization of natural resources for agribusiness, conservation, and habitat restoration. Courses and field projects prepare the student to analyze, develop, and manage programs that make use of land and water in an economic as well as environmentally sustainable fashion.

Resource Management

AGB 455 Resource Management SB	3
AGB 480 Agribusiness Policy and Government Regulations	3
CHM 231 Elementary Organic Chemistry S1/S2	3
CHM 235 Elementary Organic Chemistry Lab	1
ETM 301 Environmental Management	3
MIC 205 Microbiology S2	3
MIC 206 Microbiology Laboratory S2	1
Total	17

Veterinary College Acceptance

A student who has been accepted to a school of veterinary medicine before he or she has earned a B.S. degree from the Morrison School of Agribusiness and Resource Management may enter veterinary school by completing a minimum of 30 semester hours at ASU and the General Studies requirements. Students must receive a written statement from the Dean of the Morrison School of Agribusiness and Resource Management giving senior in absentia privileges. A student is eligible to receive the B.S. degree after the ASU Office of the Registrar receives a recommendation from the dean of the veterinary professional school and a transcript indicating the student has completed the necessary semester hours commensurate with ASU graduation requirements.

Veterinary Medical Schools

There are approximately 27 veterinary medicine schools in the United States. Each school establishes the

specific prerequisites that are required for admission. Class schedules are designed to meet the requirements of the veterinary school to which the student intends to apply. In general each school is looking for courses in biology, chemistry, organic chemistry, microbiology, and genetics. In addition to the science foundation, all students must meet the university General Studies requirements, complete 45 hours of upper division courses and meet the school requirements.

BACHELOR OF APPLIED SCIENCE DEGREE (B.A.S.)

The Bachelor of Applied Science degree is a capstone degree for the Associate of Applied Science degree. The B.A.S. degree exposes students to advanced concepts and diverse critical thinking skills to prepare them for future career opportunities and professional advancement.

Admission

Admission to the B.A.S. degree program is restricted to students holding an A.A.S. degree from a regionally accredited U.S. postsecondary educational institution. A GPA of 2.00 or higher is required for all resident applicants, and a 2.50 for nonresident applicants.

B.A.S Degree Graduation Requirements. The B.A.S. degree program consists of 60 semester hours of upper-division 300-level and above courses, with 30 hours in residence. An overall GPA of 2.00 or higher is required.

A.A.S. degree transfer	60
Assignable credit	6
B.A.S. core	15
Concentration	20
General Studies	19
Total	120

General Studies Curriculum

The B.A.S. curriculum builds on the general education content of the A.A.S. degree. Additional General Studies (L2/N2/N3 and awareness areas) are met with courses in the core or concentration. General Studies courses focus on contextual learning.

HU	3
HU or SB	3
L1	3
N1	3
S2	4
SB	3
Total	19

Assignable Credit

Assignable credit allows space in the curriculum for prerequisite courses needed to succeed in the program. The courses are determined by the student and advisor.

B.A.S Core	
AGB 31 Agribusiness Management I	3
AGB 320 Agribusiness Marketing	3
AGB 36 Agribusiness Statistics V	3
AGB 414 Agribusiness Analysis L2	3
AGB 460 Agribusiness Management Systems	4
Total	16

Concentrations

Consumer Products Technology (B.A.S. Degree). Students studying consumer products technology will be pre-

pared for careers in both the food and consumer products industries. Students learn to develop food, drug, cosmetic, and other consumer products and ensure their safety and marketability by obtaining a thorough mastery of courses in product and package design, manufacturing, processing and safety.

Consumer Products Technology

AGB 340 Food Processing	3
AGB 364 Agribusiness Technology	3
AGB 440 Food Safety	3
AGB 490 Recent Advances in Agr. business	1
MET 341 Manufacturing Analysis	3
MET 494 ST: Consumer Manufacturing	3
MET 494 ST: Manufacturing Process Simulation	3
MET 494 ST: Packaging Design	3
Total	22

Food Retailing (B.A.S. Degree). A student studying food retailing will be prepared for a career both in the food marketing and distribution industries. Potential employers are food manufacturing and processing companies, distribution centers, wholesalers, and all types of food retailers (e.g., supermarkets, mass merchandisers, fast food outlets, restaurants, and direct marketers of food).

Food Retailing

AGB 330 Agribusiness Accounting	3
AGB 332 Agribusiness Finance	3
AGB 340 Food Processing	3
AGB 364 Agribusiness Technology	3
AGB 420 Food Marketing	3
AGB 440 Food Safety	3
AGB 445 Food Retailing	3
Total	21

Resource Team Specialist (B.A.S. Degree). The resource team specialist concentration combines the technical preparation acquired in an A.A.S. program with a special orientation in environmental and resource management. This degree prepares individuals to participate as an integral part of an environmental emergency response team and in post-emergency biological and environmental rehabilitation efforts.

Resource Team Specialist

AGB 332 Agribusiness Finance	3
AGB 456 World Agricultural Resources G	3
AGB 457 Resource Policy and Sustainability	3
AGB 458 Bioremediation	3
AGB 484 Internship	2
ETM 301 Environmental Management	3
ETM 303 Environmental Regulations	3
Total	20

AGRIBUSINESS (AGB)

AGB 100 Introduction to Agribusiness. (3 F) Overview of agribusiness industries and career opportunities.

AGB 105 Global Resources. (3 F, S) Effect of quality, quantity and cost of national food supplies on technology, marketing and world agricultural policies.

AGB 171 Animal Science. (3 S) Comparative growth, development and propagation of domestic animals.

AGB 210 Livestock Management. (3 F, S) Methods of managing livestock enterprises, economic loss prevention and marketing.

AGB 211 Crop Management. 3 F, S

Crop production, management principles and the application to crop growth and development

AGB 250 World Food Dynamics. 3 S

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

AGB 251 Cultural Diversity in Agribusiness. 3 S

Promotes the awareness and appreciation of cultural diversity within the U.S. through the study of cultural and socioeconomic conditions in agribusiness of women and minorities

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 271 Veterinary Medicine Today. 3 S

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

AGB 310 Agribusiness Management I. (3) F

Principles of management including planning, organizing, integrating, measuring, and developing people in agribusiness organizations

AGB 311 Establishing an Agribusiness. 3 F

Opportunities and problems associated with new firm development in agribusiness. Business plan will be written and presented orally

AGB 320 Agribusiness Marketing. 3 F

Analysis of the marketing system for food and agricultural products. Prerequisites: ECN 111, 112

AGB 330 Agribusiness Accounting. 3 F

Introduction to managerial accounting for agribusiness using computerized accounting systems

AGB 332 Agribusiness Finance. 3 F, S

Agribusiness investment management and financial institutions that serve agriculture. Prerequisites: ACC 230, 240

AGB 334 Agricultural Commodities. (3) F

Trading on futures markets. Emphasizes the hedging practices with grains and meats. Prerequisite: AGB 320

AGB 340 Food Processing. 3 F

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

AGB 341 Food Analysis. 3 N

Processing control and scientific instrumentation used in food quality assurance laboratories. Prerequisites: AGB 364, CHM 101

AGB 351 Management Science. 3 F

Focus on the construction, solution and interpretation of quantitative models used for management decisions in making an agribusiness firm. Prerequisites: AGB 320, 360, ECN 112, MAT 117. *General Studies N3*

AGB 355 Sustainable Agriculture Systems. (3) F, S

Innovative developments in precision farming, irrigation, soil tillage methods, machinery, and biotechnology in crop production. Prerequisite: AGB 211

AGB 360 Agribusiness Statistics. 3 F, S

Statistical methods with applications in agribusiness and resource management. Lecture/computer lab. Prerequisite: college algebra. *General Studies N2*

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: BIO 100

AGB 370 Wild Life and Domestic Animal Nutrition. 3 S

Survey of nutritional needs of domestic and wild animals. Prerequisites: AGB 210, 211. *General Studies S1* course

AGB 371 Animal Genetics. 3 F

Principles of animal genetics including heritable traits, chromosomal aberrations, population genetics, molecular genetics and gene regulation. Prerequisites: BIO 181, 182

AGB 380 Applied Microeconomics. 3 F, S

Emphasizes on application of the theory of the firm, theory of exchange and consumer theory.

AGB 410 Agribusiness Management II. 3 S

Principles of human resource management in agribusiness firms. Prerequisite: AGB 31

AGB 411 Agricultural Cooperatives. 3 S

Organization, operation, and management of agricultural cooperatives

AGB 414 Agribusiness Analysis. 3 F, S

Analysis of agribusiness firm decisions in the ecological, economic, social and political environments. Special emphasis on ethical issues surrounding food production and consumption. Prerequisite: General Studies L1 course. *General Studies L2*

AGB 420 Food Marketing. 3 S

Food processing, packaging distribution, market research, new food research and development and social implications. Prerequisite: AGB 320

AGB 424 Sales and Merchandising in Agribusiness. 3 SS

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

AGB 425 Agricultural Marketing Channels. 3 F

Operational stages of agricultural commodities in normal distribution systems and implementation of marketing strategies. Prerequisite: AGB 320

AGB 432 Agribusiness Finance II. 3 S

Examines topics in sourcing and using capital, optimal capital structure, dividend policy, cost of capital, lender/borrower relationships and risk management. Prerequisite: AGB 332

AGB 434 Advanced Commodity Trading. 3 S

Advanced analysis of trading techniques with emphasis on hedging in the futures markets. Prerequisites: AGB 332, 334

AGB 440 Food Safety. 3 S

Control, prevention and prediction of microbial and chemical foodborne diseases. Prerequisite: AGB 442. Instructor approval

AGB 441 Food Chemistry. 4 N

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

AGB 442 Food and Industrial Microbiology. 3 N

Food and industry related microorganisms, deterioration and preservation of industrial commodities. Lecture/lab. Prerequisite: microbioLOGY course with lecture and lab

AGB 443 Food and Industrial Fermentations. 4 N

Management manipulation and metabolic activities of industrial microorganisms and their processes. Lecture/lab. Prerequisite: AGB 442 or instructor approval

AGB 445 Food Retailing. 3 F

Food retail management. Discusses trends, problems and functions of food retail managers with various retail institutions. Lecture/case studies

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 452 Agricultural Trade Analysis. (3) F

Use of international trade theory to analyze the effects of government policies, trade agreements and exchange rates in agribusiness. Prerequisite: ECN 112

AGB 454 International Trade. 3 S

International practices in trading of agribusiness, technology and resource products and services

AGB 455 Resource Management. 3 S

Explores differences between societal and individual values of natural resources and considers public policy vs. market based solutions to environmental concerns. Prerequisite: ECN 112. *General Studies SB*

AGB 456 World Agricultural Resources. 3 F

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

AGB 457 Resource Policy and Sustainability. 3 F

Considers the evolution of policy design focus on how resource and environmental concerns have affected agricultural development and trade policies. Prerequisite: ECN 112

NOTE: For the General Studies requirement courses and codes such as L1, N3, C and H, see General Studies page 85. For graduation requirements, see 'University Graduation Requirements' page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see 'Classification of Courses' page 58.

AGB 458 Bioremediation. 3 S

Technica regulatory and policy issues emanating from managing and an environmental waste lecture case studies

AGB 460 Agribusiness Management Systems. 4 S

The development and selection of support systems for agribusiness management and marketing Lecture lab

AGB 470 Comparative Nutrition. 3 N

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

AGB 471 Diseases of Domestic Animals. 3 S

Control and prevention of infectious and noninfectious diseases of domestic animals Prerequisite AGB 442 or microbiology course with lecture and lab

AGB 473 Animal Physiology I. 3 N

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

AGB 479 Veterinary Practices. (3 F S

Observation of and participation in veterinary medicine and surgery supervised by occupational veterinarians Prerequisite advanced preveterinary student

AGB 480 Agribusiness Policy and Government Regulations. 3 S

The development and implementation of government food, drug, pesticide and farm policies and regulations that affect the management of agribusiness

AGB 484 Internships. 2 F, S**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 501 Master's Thesis Preparation. 1 F, S

Step-by-step guidelines to major elements of a master's thesis along with practical guidelines for conducting research.

AGB 510 Advanced Agribusiness Management I. 3 F

Managing and financing agribusiness emphasizing environmental and economic sustainability in agriculture economy undergoing radical change Prerequisite AGB 310

AGB 511 Advanced Agribusiness Management II. 3 S

Analysis of organizational behavior change and resource requirements within agribusiness systems Prerequisite AGB 310

AGB 512 Food Industry Management. 3 S

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

AGB 513 Advanced Cooperatives. 3 F

Advanced study of cooperatives and other nongovernmental organizations NGO focusing on management and proposal preparation for international agencies

AGB 514 Advanced Agribusiness Analysis I. 3 S

Vertical integration and differentiation in food and agribusiness industries Prerequisite AGB 510 or 528

AGB 515 Agribusiness Coordination. 3 S

Organizational alternatives for agribusiness with emphasis on cooperatives and trading companies Prerequisite AGB 510 or 528

AGB 528 Advanced Agribusiness Marketing. 3 F

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

AGB 529 Advanced Agribusiness Marketing Channels. 3 S

Analysis of agribusiness marketing channels Formulation of marketing strategies

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 finance course or instructor approval

AGB 535 Commodity Analysis. 3 F

Analysis of commodity markets

AGB 540 Advanced Food Science. 3 N

Chemical and physical nature of processed foods Emphasis on food product development

AGB 550 International Agricultural Development. 3 F

Emphasis on cultural economic and technical aspects of development and the implications for U.S. agribusiness working abroad

AGB 551 World Agricultural Development. 3 S

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

AGB 552 Advanced International Trade. 3 F

Advanced international practices trading of agribusiness, technology and resource products and services

AGB 557 Resource Policy and Sustainability. 3 F

Considers the evolution of policy design focusing on how resource and environmental concerns have affected agricultural development and trade policies

AGB 558 Advanced Bioremediation. 3 S

Management and policy issues related to bioremediation of managing and environmental waste and replacement of chemical controls with biological methods Lecture, case studies

AGB 560 Advanced Agribusiness Management Systems. 3 N

Development and use of decisions on support systems for agribusiness management decisions on making Prerequisite AGB 510

AGB 561 Agribusiness Research Methods. 3 F

The use of model building hypothesis testing and empirical analysis in solving agribusiness problems

AGB 580 Advanced Agribusiness Policy. 3 F

Policy making history, structure and process

AGB 581 Advanced Agribusiness Policy. 3 N

Policy-making history, structure, and process.

AGB 587 Resource Policy and Sustainability. 3 F

Considers the evolution of policy design focusing on how resource and environmental concerns have affected agricultural development and trade policies

East College

David E. Schwalm

Dean

(CNTR 92) 480/727-1515

www.asu.edu/east/ecollege/eastcoll.html

ASSOCIATE PROFESSOR

BARCHILON

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 through which ASU East students are provided with lower division General Studies and major prerequisite courses,
3. to offer an academic home for students who choose the unique environment of ASU East but do not wish to declare a major immediately, and
4. to develop new degree programs for ASU East.

General Studies/General Interest. Each semester, East College offers a selection of popular upper division ASU General Studies and general interest courses, primarily for support of ASU East students, but open to all ASU students who might find the time or location convenient. East College typically offers courses in anthropology, art communication, economics, English, history, mathematics, music, philosophy, political science, psychology, religious studies, sociology, and women's studies. A 1 credit earned at ASU East automatically transfers to ASU Main or ASU West

New Partnership in Baccalaureate Education. Through the New Partnership with Chandler Gilbert Community College, ASU East students take first year composition courses and courses that meet lower division ASU General Studies requirements listed in the "General Studies" section, page 85. These courses are available in an innovative integrated first year curriculum designed to foster academic success. Students can also take major prerequisite courses, introductory language courses, and other lower division courses of general interest through the partnership.

East College/No Preference Majors. Students who would like to start their college careers at ASU East to benefit from the unique campus environment or the New Partnership can declare "East College/No Preference" as an interim major while completing General Studies requirements and searching for an ASU major that serves their personal and career objectives. East College provides advising for No Preference majors.

New Degree Programs. East College is now offering the Bachelor of Arts in Education degree in Elementary Education in cooperation with the College of Education at ASU Main. See "College of Education," page 176, for program admission and graduation requirements. Students should consult the ASU East Web page for announcements of additional programs in East College.

APPLIED SCIENCE CORE (ASC)

- ASC 301 Contextual Uses of Algebra in Technology.** 1 F S
Using algebra to solve real world technological problems using currently available computer software. Prerequisite: BAS major.
- ASC 302 Contextual Uses of Geometry in Technology.** 1 F S
Using geometric concepts to solve real world technological problems using currently available computer software. Prerequisite: BAS major.
- ASC 303 Contextual Uses of Trigonometry in Technology.** 1 F S
Using trigonometry to solve real world technological problems using currently available computer software. Prerequisite: BAS major.
- ASC 315 Numeracy in Technology.** 3 F S
Contextual uses of mathematics in applied sciences. Emphasis on using mathematical methods to solve technology related problems. Prerequisite: BAS major.
- ASC 325 Physical Sciences in Technology.** 4 F S
Physical systems and the interrelationships on technology systems. Real-world applications of physical systems. Lecture/lab. Prerequisite: BAS major.

TECHNICAL WRITING AND COMMUNICATION (TWC)

- TWC 200 Impact of Communications Technology on Society.** 3 F S
Organizational issues and development of technical communication. Activities include research, evaluations and presentation for arguments in support of position. Prerequisite: ENG 102 *General Studies: L1*
- TWC 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
- TWC 400 Technical Communications.** 3 F S S
Planning and preparing technical publications and presentations based on directed library research related to current technical processes. Prerequisites: completion of first year English equivalents L1 course; senior standing as a CTAS major. *General Studies: L2*

NOTE: For the General Studies requirements, courses and codes such as L1, N3, C and H see General Studies page 85. For graduation requirements see University Graduation Requirement page 81. For an explanation of additional non-business courses offered but not listed in this catalog see "Classification of Courses" page 58.

College of Technology and Applied Sciences

Albert L. McHenry
Dean
(CNTR 10) 480/727-1874
www.asu.edu/east/tech

PURPOSE

The College of Technology and Applied Sciences (CTAS) helps students develop knowledge and skill in technological fields that qualify them for career positions and leadership responsibility in industry, government, and commercial enterprise. Each student is guided to select a major that 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 programs leading to the B.S. degree and B.A.S. degree. 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 B.S. degree 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—B.S. DEGREE

The College of Technology and Applied Sciences admits first-year students who meet the undergraduate admission requirements of Arizona State University. See "Undergraduate Admission," page 60. High school precalculus, physics, and chemistry are recommended. Transfer applicants must meet the university requirements for transfer students as specified under "Transfer Credit," page 63, with the exception that Arizona resident transfer students must have a 2.25 GPA.

Students admitted to a B.S. degree program in 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 cri-

teria for admission and have no deficiencies in the basic competency requirements for admission. First-year students admitted upon completion of the GED are 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 remaining admissions deficiencies and meet the required GPA.

Transfer students from other institutions must meet the minimum admission requirements for college transfer students as described under "Transfer Credit," page 63. The CTAS also requires resident transfer students to have a cumulative GPA of 2.25.

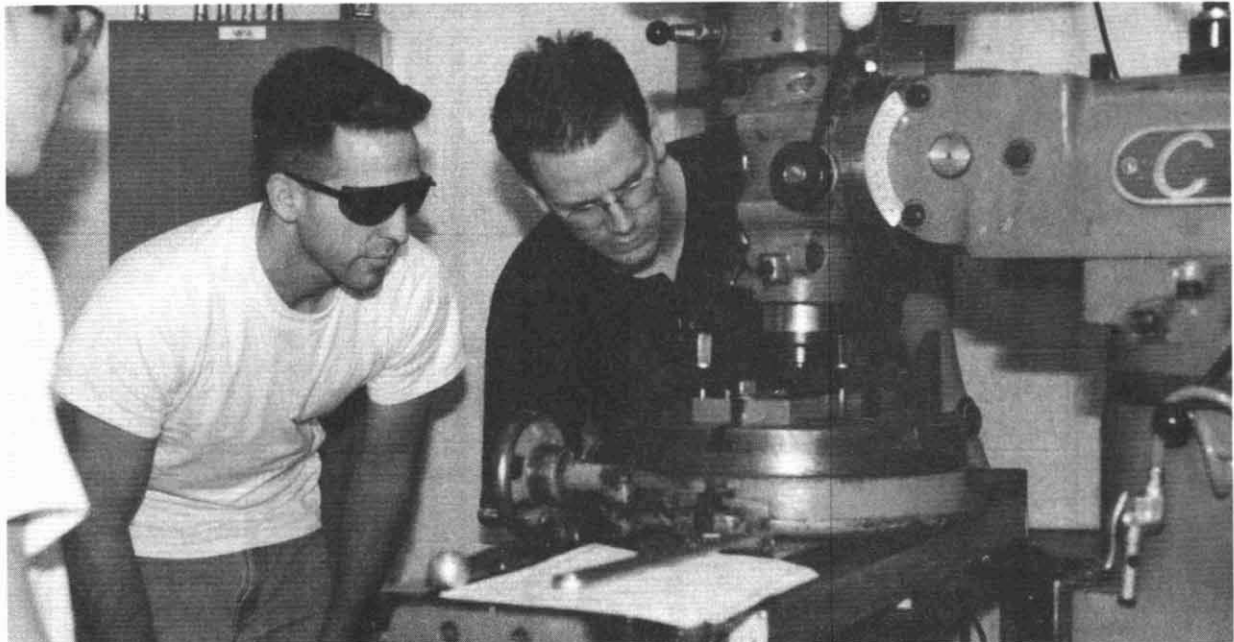
All international students must have a minimum 500 TOEFL score to be admitted with professional status.

Preprofessional Status

All other students are admitted with preprofessional status and may apply for professional status after they have removed the deficiency that 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 is awarded according to the guidelines under "Transfer Credit," 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. For assistance in the transfer from Arizona community colleges, transfer guides are available at www.asu.edu/provost/articulation.



Lab coordinator Scott Almen (right) shows junior Michael Bell manufacturing processes in an ASU East lab.

Tim Trumble photo

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.

ADMISSION B.A.S. DEGREE

Admission to the B.A.S. degree program is restricted to students holding an A.A.S. degree from a regionally accredited U.S. postsecondary educational institution. A GPA of 2.00 or higher is required for a resident applicant and a 2.50 for nonresident applicants.

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 who assist them with planning a program of study in the department of their major. 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 given in "University Graduation Requirements," page 81, 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 the professional status within the college. Students who are not in good academic standing must petition the CTAS Standards Committee. Students enrolled in another ASU college may not register for any 300 and 400 level CTAS courses unless those courses are required in the 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 to con-

tinue 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 do not receive monetary reimbursement. Such withdrawals are considered to be unrestricted as described under "Unrestricted Course Withdrawal," page 75, and do not count against the number of restricted withdrawals allowed.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see "General Studies," page 85. For graduation requirements, see "University Graduation Requirements," page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 58.

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. For assistance in the transfer from Arizona community colleges, transfer guides are available at www.asu.edu/post/articulation

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 under "University Honors College," page 316.

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 of courses in the Department of Aerospace Studies or Department of Military Science. 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 and technical documentation. Lecture, lab. *General Studies N3*

ETC 101 Languages of Technology Lab. 0) F S
Introduction to computer aided design programming and technical documentation.

ETC 201 Applied Electrical Science. (4 F, S, SS)
Principles of electricity passive elements and AC DC circuit analysis. Laboratory experiment on 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.

Department of Aeronautical Management Technology

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GESELL

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MCCURRY, TURNEY

ASSISTANT PROFESSORS

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LECTURERS

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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 admission 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 with concentrations in airway science flight management and airway science management. A B.A.S. degree in Applied Science is also offered with concentrations in aviation maintenance management technology and aviation management technology.

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 concentrations: airway science flight management and airway science management, both of which have the approval of the Federal Aviation Administration as Airway Science programs. The concentrations are described separately on the following pages.

All degree requirements are shown on curriculum check sheets for the concentrations that are available through the department. Requirements include First Year Composition, university General Studies (see "General Studies," page 85), and the Aeronautical Management Technology Core. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses. Refer to individual concentration 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 Ground School	3
AMT 396 Aviation Professionalism	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 Concentration

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 concentration 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 "General Studies," page 85) and the Aeronautical Management Technology core, the following additional courses are required for the airway science flight management concentration:

AET 303 Aircraft Design I	3
AMT 300 Flight Safety I	1
AMT 300 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 Elective	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 M1	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 V3	4
MAT 266 Technical Calculus I M1	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.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C and H, see General Studies page 85. For graduation requirements see University Graduation Requirements, page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses page 58.

Airway Science Management Concentration

The airway science management concentration 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 "General Studies," page 85), and the Aeronautical Management Technology core, the following additional courses are required in the airway science management concentration:

ACC 230 Uses of Accounting Information I	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 VI	3
Total	13

Second Semester

ENG 102 First Year Composition	3
ETC 100 Languages of Technology N3	4
MAT 260 Technical Calculus I/II	3
PHY 111 General Physics S1/S2*	3
PHY 113 General Physics Laboratory S1/S2*	1
General Studies elective	3
Total	17

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

BACHELOR OF APPLIED SCIENCE B.A.S.

The Bachelor of Applied Science degree is a "capstone" degree for the Associate of Applied Science degree. The B.A.S. degree exposes students to advanced concepts and diverse critical thinking skills that prepare students for future career opportunities and professional advancement.

Admission

Admission to the B.A.S. degree program is restricted to students holding an A.A.S. degree from a regionally accredited U.S. postsecondary educational institution. A GPA of 2.00 or higher is required for all resident applicants and a 2.50 for nonresident applicants.

Degree Requirements

The B.A.S. degree in the College of Technology and Applied Sciences consists of 60 semester hours of upper-division (300 level and above) courses, with 30 hours in residence.

A.A.S. degree transfer	60
Assignable credit	6
B.A.S. core	15
General Studies	19
Technical concentration	20
Total	120

General Studies Curriculum

The B.A.S. curriculum builds on the general education content of the A.A.S. degree. Additional General Studies (L2/N2/N3 and awareness areas) are met with courses in the core or specialization. General Studies courses focus on contextual learning

HU	3
HU or SB	3
L1	3
N	3
S2	4
SB	3
Total	19

Assignable Credit

Assignable credit allows space in the curriculum for prerequisite courses needed to succeed in the program. The courses are determined by the student and the advisor.

B.A.S. Core

The area core is focused on management and organization, professional communication, quantitative analysis, and computer competency.

CGC 494 ST Computer Systems Applications	3
IMC 346 Management Dynamics or ITM 344 Industrial Organization (3 or ITM 452 Industrial Human Resource Management 3	3
IMC 470 Project Management	3
STP 420 Introductory Applied Statistics N2	3
TWC 400 Technical Communications L2	3
Total	15

Technical Concentrations

Aviation Maintenance Management Technology. This concentration is for those students who have completed an airframe and powerplant certification as part of their A.A.S. degree. Students receive an orientation in management practices that prepares them for progressively more responsible positions in the field of aviation maintenance management.

Aviation Management Technology. This concentration is for those students who have received training and education in some aspect of the air transportation industry (other than aviation maintenance), such as flight certificates and ratings

as part of their A.A.S. degree. Students receive an orientation in management practices that prepares them for progressively more responsible positions in the field of aviation management.

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 unit. Competition of the FAA Private Pilot Certificate Lecture, lab. Prerequisite: AMT 182 or 220. Equivalent.

AMT 101 Introduction to Aeronautical Management Technology. 1 F S

Facilitates entry into Aeronautical Management Technology programs. Emphasizes *General Catalog* and concentration requirements. Registration at 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. Prerequisite: AMT 220.

AMT 200 Flight Safety II. 2 F S SS

Supervised commercial student flight training and safety briefings. Continuous enrollment required unit. Competition of FAA Commercial Pilot Certificate with Instrument Rating. Lecture, lab. Prerequisites: AMT 100, Private Pilot Certificate. Prerequisite: AMT 214 or 322.

AMT 201 Air Traffic Control. 3 F

Ground and air operations, weather service, communications and routing, flight plans, FR operations, departures and arrivals, and airport conditions and emergencies. Prerequisite: AMT 182.

AMT 214 Commercial Instrument Ground School I. 3 S

Ground school leading to FAA student Pilot Rating/Commercial Pilot Certificate part 1. 2 10 hours ground trainer included. Lecture, lab. Prerequisite: AMT 182, 220.

AMT 220 Aviation Meteorology. 3 F S

Evaluation, analysis, and interpretation of atmospheric phenomena. Low and high altitude weather from the pilot's viewpoint. Prerequisite: AMT 182.

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 controls. Lecture, lab. Prerequisite: AMT 280.

AMT 300 Flight Safety III. 2 F, S SS

Supervised instructor flight training and safety briefings. Continuous enrollment required unit. Competition of FAA Flight Instructor Certificate with Instrument Instructor Rating. Lecture, lab. Prerequisite: AMT 200. Prerequisite or corequisite: AMT 385.

AMT 308 Air Transportation. 3 F

Study of the history and international development of air transportation and its social, political, and economic impact upon global interrelationships. Prerequisite: junior standing. *General Studies G*.

AMT 214 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. Prerequisite or corequisite: AMT 322.

AMT 322 Commercial/Instrument Ground School II. 3 F

Ground school leading to FAA Instrument Pilot Rating/Commercial Pilot Certificate part 2 of 2. 11 hours ground trainer included. Lecture, lab. Prerequisite: Private Pilot Certificate. Prerequisite or corequisite: AMT 214.

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 multi-pace cockpit. Lecture, lab. Prerequisite: AMT 322.

AMT 385 Flight Instructor Ground School. 3 S

Ground school preparation for the FAA Flight Instructor Certificate. Lecture, lab. Prerequisite: AMT 300.

AMT 387 Multiengine Pilot Ground School. (1) S

Ground school preparation for the FAA Multiengine Rating. Lecture, lab. Prerequisite 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 techniques and procedures for multiengine and 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, résumé writing, interviews, and employment search. In aviation industry. Prerequisite: junior standing.

AMT 400 Flight Safety IV. 1 F S SS

Multiengine and crew training and safety briefings. Continuous enrollment required unit. Competition of rating and multi-crew training. Lecture, lab. Prerequisite: AMT 300. Prerequisite 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.

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. Credits awarded only for AET 409 or AMT 409. Prerequisite: AMT 280 or MET 230.

AMT 410 Aviation Safety and Human Factors. 3) F

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

AMT 412 Air Transportation Research. 1 F

Survey of practical research methodology in use in the air transportation industry. Topics include planning and design considerations.

AMT 419 Aviation Logistics Management. (3) S

Survey of FAA requirements for personnel and facilities. Topics include parts supply, quality control, product accountability, and administration. Lecture, lab. Prerequisite: junior or standing.

AMT 442 Aviation Law/Regulations. 3 F

Aviation within the context of U.S. Common Law system. Public aviation strategy, rule making, sovereignty, enforcement, and case law analysis. Prerequisite: junior standing.

AMT 444 Airport Management and Planning. 3 S

Orientation to administration and management of modern public airports, including overview of planning, funding, and development of airport facilities. Prerequisite: AMT 308.

NOTE: For the General Studies requirement, courses, and codes such as L1, N3, C, and H, see "General Studies" page 85. For graduation requirements, see "University Graduation Requirements" page 81. For an explanation of additional common bus courses offered but not listed in this catalog, see "Classification of Courses," page 58.

AMT 482 Airline Instrument Procedures. 3 F

Advanced instrument flight using air line instrument procedures and air line crew and cockpit resource management. Lecture, lab. Prerequisites: AMT 322, 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 organizational economics of airline administration operations structure and relationship with federal government agencies. Prerequisites: AMT 308, instructor approval.

AMT 491 Aviation Management Capstone. 3) S

Integration and overview of management issues, 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 airframe, 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 regulations 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 framework and intermediate promoting connections between modes. Prerequisite: AMT 444 or 489 or equivalent.

AMT 525 Airport Planning and Design. 3 N

Students complete various phases of airport master planning process. Provide guidance for local and time development of reports. 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 history. Review of institutional framework. Bilateral route agreements freedom versus sovereignty current regulations 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 operations aircraft maintenance and administration for multi-engine 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 operating 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 pilot. Stress importance of cockpit thinking, decisions on 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 design 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.

Department of Electronics and Computer Engineering Technology

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PURPOSE

Electronics engineering technology is a technological field 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 for 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 concentrations are available: computer systems, electronic systems, microelectronics, and telecommunications.

The *computer systems* concentration combines applied electronics and computer hardware and software concepts with 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* concentration is aimed at preparing persons for careers in control, electronics, instrumentation, and power systems applications. This concentration allows a student to develop a broad based knowledge of

electrical/electronic fundamentals with an applications perspective.

The *microelectronics* (UET) concentration combines applied electronics, monolithic and hybrid integrated circuit processing and applications, device and component fabrication, and manufacturing. The objective of this concentration 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 concentration secure positions in processing, manufacturing operations, and applications areas in industry as members of the diverse scientific engineering team.

The *telecommunications* concentration 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.

For students holding an A.A.S. degree, the department offers the B.A.S. degree with a major in applied science. Five concentrations are available: computer systems administration, instrumentation, microcomputer systems, semiconductor technology, and software technology applications.

A Master of Technology degree program with a concentration in electronics engineering technology is available for qualified B.S. graduates. The undergraduate program concentrations 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 concentration specialty area. General Studies consist of courses selected to meet the university General Studies requirement (see "General Studies," page 85) 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.

NOTE: For the General Studies requirement courses and codes such as L1, N3, C, and H, see "General Studies," page 85. For graduation requirements, see "University Graduation Requirements," page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 58.

B.S. 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	3	4
ETC 211	Applied Engineering Mechanics: Statics	3	3
ETC 340	Applied Thermodynamics and Heat Transfer	3	3
Total			10

Electronics Engineering Technology Core Requirements

CET 150	Digital Systems I	4	4
CET 256	C Programming for Engineering Technology	3	3
CET 354	Microcomputer Systems	4	4
EET 208	Electronic Circuit Analysis I	4	4
EET 301	Electronic Circuit Analysis II	4	4
EET 310	Electronic Circuits I	4	4
EET 372	Communication Systems	4	4
EE 396	Professional Orientation*	1	1
EET 407	Energy Conversion and Applications	4	4
EET 410	Electronic Circuits II	3	3
UET 331	Electronic Materials	3	3
UET 415	Electronic Manufacturing Engineering Principles	3	3
Total			41

* Students must take EET 396 the semester in which they are enrolled in the 8th 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 Concentrations

Computer Systems

CET 457	Digital Logic Applications	4	4
CET 456	Assembly Language Applications	3	3
CET 457	Microcomputer Systems Interfacing	4	4
CET 473	Digital/Data Communications	4	4
CET 483	UNIX with C Applications	3	3
Approved technical electives		5	5
Total			23

Electronic Systems

CET 483	UNIX with C Applications	3	3
EET 406	Control System Technology	4	4
EET 430	Instrumentation Systems	4	4
EET 460	Power Electronics	4	4
Approved technical electives		8	8
Total			23

Microelectronics

CHM 16	General Chemistry S1/S2	4	4
UET 416	Monolithic Integrated Circuit Devices	3	3
UET 41	Monolithic Integrated Circuit Laboratory	2	2
UET 418	Hybrid Integrated Circuit Technology	4	4
UET 421	Applied Device Physics	3	3

UET 432 Semiconductor Packaging and Heat Transfer	3
Approved technical electives	4
Total	23
Telecommunications	
CET 473 Digital/Data Communications	4
EET 304 Microwave Technology	4
EET 401 Digital Filters and Applications	3
EET 470 Communication Circuits	4
Approved technical electives	8
Total	23

BACHELOR OF APPLIED SCIENCE (B.A.S.)

The Bachelor of Applied Science degree is a "capstone" degree for the Associate of Applied Science degree. The B.A.S. degree exposes students to advanced concepts and diverse critical thinking skills that prepare them for future career opportunities and professional advancement.

Admission

Admission to the B.A.S. degree program is restricted to students holding an A.A.S. degree from a regionally accredited U.S. postsecondary educational institution. A GPA of 2.00 or higher is required for all resident applicants and a 2.50 for nonresident applicants.

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

First Year

First Semester

CET 150 Digital Systems I N3	4
ENG 101 First Year Composition	3
MAT 170 Pre-calculus NI	3
PHY 111 General Physics S1/S2	3
PHY 113 General Physics Laboratory S2/S2 ¹	1
Total	14

Second Semester

ENG 102 First Year Composition	3
ETC 100 Languages of Technology N3	4
MAT 260 Technical Calculus I NI	3
PHY 112 General Physics S1/S2	3
PHY 114 General Physics Laboratory S1/S2	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 NI	3
Total	17

Second Semester

EET 301 Electric Circuit Analysis II	4
ETC 211 Applied Engineering Mechanics Statics	3
MAT 262 Technical Calculus III NI	3
TWC 200 Impact of Communications Technology on Society LI	3

HU, SB, and awareness area course	3
Total	16

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

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

Degree Requirements

The B.A.S. degree in the College of Technology and Applied Sciences consists of 60 semester hours of upper division (300 level and above) courses, with 30 hours in residence.

A.A.S. degree transfer	60
Assignable credit	6
B.A.S. core	15
General Studies	19
Technical concentration	20
Total	120

General Studies Curriculum

The B.A.S. curriculum builds on the general education content of the A.A.S. degree. Additional General Studies (L2/N2/N3 and awareness areas) are met with courses in the core or specialization. General Studies courses focus on contextual learning.

HU	3
HU or SB	3
L1	3
N1	3
S2	4
SB	3
Total	19

Assignable Credit

Assignable credit allows space in the curriculum for prerequisite courses needed to succeed in the program. The courses are determined by the student and the advisor.

B.A.S. Core

The area core focuses on management and organization, professional communication, quantitative analysis, and computer competency.

CET 336 Programming in Visual BASIC	3
CGC 357 Technical Presentations and Visual Literacy	3
EET 494 ST Data Analysis	3
IMC 346 Management Dynamics	3
TWC 401 Technical Communication L2	3
Total	15

Technical Concentrations

Computer Systems Administration. This concentration is designed to broaden and provide more in-depth knowledge in computer networks. Graduates from this concentration will be prepared to specify, install, maintain, and administer various computer networking systems.

Instrumentation. This concentration studies instrumentation, power systems, and computer systems. The curriculum prepares the graduate to specify and prepare solutions for a wide variety of electrical and electronic instrumentation systems. Graduates from this concentration are primed for

technical leadership positions in the various segments of the electronics industry.

Microcomputer Systems. This concentration prepares graduates for product specification and marketing positions in microcomputer applications. The B.A.S. degree provides additional technical skills in microcomputer systems to prepare graduates for responsible and productive positions in the support of computer systems.

Semiconductor Technology. This concentration prepares graduates for careers in the semiconductor industry. The B.A.S. degree provides graduates with an understanding of integrated circuit processing, mask making, packaging, and the software tools used in this industry.

Software Technology Applications. This concentration prepares graduates for careers in the software industry. The B.A.S. degree furnishes additional technical expertise in software technology to prepare graduates to design, specify, and provide software solutions for industry and the consumer market. This concentration also prepares graduates for computer systems and network administration careers.

COMPUTER ENGINEERING TECHNOLOGY (CET)

CET 100 Object-Oriented Software Development I. (3 F)

Basic concepts of OO analysis design and programming using JAVA. Studies main features of software development in an OO framework. Prerequisite: freshman standing

CET 150 Digital Systems I. (4) F S

Number systems Boolean algebra combinational logic K maps, flip flops, sequential circuits, state machines, and minimization techniques. *General Studies N3*

CET 200 Object-Oriented Software Development II. (3 F)

Continuation of CET 100. Object modeling, task scripts, and use cases; the dynamic model, interaction diagrams, and other OO concepts. Prerequisite: CET 100

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 300 Object-Oriented Software Development III. (3 F)

Increases skills in OO concepts and presents C++. Covers JAVA concepts of threads, server and client C++ language concepts. Prerequisites: CET 200, 256

CET 336 Programming in Visual BASIC. (3 S)

Introduction to BASIC and programming in the Visual BASIC environment. Prerequisite: CET 256

CET 350 Digital Systems II. (4 F)

Analysis and design of synchronous and asynchronous state machines. Introduction to VHDL. Lecture/lab. Prerequisite: CET 150

CET 354 Microcomputer Systems. (4 F S)

Microcomputer organization assembly language programming, I/O considerations, exception and interrupt handling. Introduction to 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 V PSPICE VEWLOG and ICED. Cross-listed as UET 426. Credit is allowed only for CET 426 or UET 426. Prerequisite: UET 331.

CET 452 Digital Logic Applications. (4 S)

Design of sequential machines using system design techniques and complex MSI LSI 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. Prerequisites: CET 354, EET 372

CET 483 UNIX with C Applications. (3) F

Generate user proficiency in the use of the UNIX operating system, its shell environment and 4th generation language and tools. Prerequisite: senior standing in the ECET department 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. Credit is allowed only for CET 485 or UET 485. Prerequisites: 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. Prerequisites: 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. Prerequisites: CET 350, 354

CET 488 UNIX Systems Administration. (3 F)

Generate user proficiency in administration of UNIX operating system, its processes system call structure and interprocess communication tools. Prerequisites: CET 483 or equivalent; C or C++ language

CET 489 Network Programming. (3 F)

Generate user proficiency in writing C programs and scripts to control and administer a UNIX operating system network. Prerequisites: CET 473 and 488 or equivalents; C or C++ language

CET 520 Computer Architecture. (3) F

The basics of computer architecture. RTN, RISC, CISC concepts, computer arithmetic, ALUs, memory systems. 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

CET 557 Microcomputers and Applications. (3 F)

Applications of small computer systems main- and microcomputer hardware and software. Prerequisites: CET 354; CSE 100 (or 183); EET 310

CET 583 Network Programming. (3) F

Generate user proficiency in writing C programs and scripts to control and administer a UNIX operating system network. Prerequisites: CET 473 and 488 or equivalents; C or C++ language

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

NOTE: For the General Studies requirement courses, and codes (such as L1, N3, C, and H) see General Studies page 85. For graduation requirements, see University Graduation Requirements page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see Catalog of Courses page 58.

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 circuit 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. Frequency response. Laplace and Fourier transforms. Lecture/lab. Prerequisite: EET 208. Prerequisite: MAT 262

EET 304 Microwave Technology. 4 A
Theory and applications of waveguide transmission lines, impedance measurements and matching microwave component antennas and fiber optics. Lecture/lab. Prerequisite: EET 301

EET 310 Electronic Circuits I. 4 F, S
Multistage amplifier, analysis and design using models 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 profession, economic and ethical aspects of electronics/computer engineering technology practice and industrial organization. Lecture/projects. Prerequisite: none or student approval

EET 401 Digital Filters and Applications. 3 S
Analysis and design of digital filters. Time frequency and Z transform techniques. Digital waveforms. Computer applications. Prerequisite: 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. Prerequisite: EET 301, MAT 262

EET 407 Energy Conversion and Applications. 4 F
Electrical, magnetic, mechanical, heat and units, and three phase circuits. Electrical machines, transformers, general transmission and distribution of electrical energy. 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. Prerequisite: EET 301, 310

EET 420 Analog Filters and Applications. 3 A
Active and passive analog filter design. Frequency domain approximation, computer simulation using PSPICE. Lecture/lab. Prerequisite: 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. Prerequisite: CET 350, EET 301, 310

EET 430 Instrumentation Systems. 4 F
Measurement principles and instrumentation techniques. Signal and error analysis. Lecture/lab. Prerequisite: 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. Prerequisite: 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 software. Lecture/lab. Prerequisite: EET 372, MAT 262

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

EET 482 Industrial Practice: Internship/Coop. (1-4) F, S, SS
Special assignment or approved activities in electronic industries or institutions. Report required. May be repeated for up to a maximum of 10 credits. Prerequisite: 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 494 ST: Data Analysis. 3 F, S

EET 500 Research/Writing. 2 F, S
Designed to help masters 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 FR filters using computer aided design techniques. Prerequisite: EET 410 or instructor approval. MAT 262

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

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. Prerequisite: EET 301, 501 (or MAT 262)

EET 508 Digital Real-Time Control. 3 A
Sample data control techniques and applications to process control. Prerequisite: CET 354, EET 406.

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

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

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

EET 540 Electrical Power Systems. 3 S
Electrical power system analysis, transmission distribution instrumentation, protection and related system components. Prerequisite: 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. Prerequisite: CET 350, EET 301, 310, 407

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

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

EET 578 Digital Filter Hardware Design. (3) S
Hardware design of FIR and RFT 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 on computer environment. Software and hardware supported to emphasize the practical aspect. Prerequisite: EET 401 or instructor approval.

NOTE: For the General Studies requirement course and courses such as L1, N3, C and H, see General Studies page 85. For graduation requirements see University Graduation Requirements page 81. For an explanation of add to a minor courses offered but not listed in this catalog see Classification of Courses page 58.

**MICROELECTRONICS
ENGINEERING TECHNOLOGY (UET)**

- UET 331 Electronic Materials.** 3 F
Physica chemica, electromagnetica, and mechanica proprietates of electronica materia. Solid state device characteristics and the material properties. Prerequisites: CHM 113 EET 208 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 practice. Comparison of electronics 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 V, PSPICE VIEWLOGIC and CED. Cross-listed as CET 426. Credit allowed only for CET 426 or UET 426. Prerequisite: UET 331
- UET 432 Semiconductor Packaging and Heat Transfer.** (3) S
Packaging theory and techniques, hermetic and plastic 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 A)
Hardware software aspects of digital testing technology, systems, board and logic testing and equipment. Lecture, lab. Cross-listed as CET 485. Credit shared only for CET 485 or UET 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 CMOS processes and process integration design of modern CMOS 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, Fermi level, pn junctions, diodes and bipolar and MOS transistors. Prerequisite: graduate standing in the department
- UET 532 IC Packaging.** (3) S
IC packaging theory and techniques, assembly techniques, materials, thermal management, electrical performance and reliability. Lecture, lab. Prerequisites: ETC 340 and UET 331 or equivalent

**Department of Information and
Management Technology**

Thomas E. Schildgen
Chair
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PROFESSORS

DANEKE DUFF HILD, SCHILDGEN

ASSOCIATE PROFESSORS

GROSSMAN, HIRATA, HUMBLE, MATSON OLSON

LECTURERS

DOLIN, 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 concentrations in the following areas: environmental technology management, industrial technology management, and information technology.

For students holding an A.A.S. degree the department offers the B.A.S. degree in Applied Science, with concentrations in digital media management, digital publishing, emergency management, fire service management, operations management technology, and technical graphics.

A Master of Technology degree is offered for graduate study. For more information about the graduate program, see the *Graduate Catalog*.

B.S. Degree Requirements

The curriculum consists of First Year Composition, university General Studies, 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 concentration 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

ETC 100	Languages of Technology I/II	4
IMC 233	Desktop Publishing and Intographics	3
IMC 331	Quality Assurance	3
IMC 346	Management Dynamics	3
IMC 396	Professional Orientation	3
IMC 470	Project Management	3
Total		17

Environmental Technology Management Concentration.

The environmental technology management concentration 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 certificate 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 Concentration. The industrial technology management concentration 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.

Information Technology Concentration. The information technology concentration prepares students for positions in

the communication and information technology 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 concentration has two areas of study: graphic communication, and interactive computer graphics.

Graphic Communications Area of Study. The purpose of the graphic communications area of study is to prepare students for a wide variety of professional positions in the printing and graphic communications industry. This area of study offers a blend of technical 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 Area of Study. The purpose of the interactive computer graphics area of study is to prepare students for entry into the diverse field of computer graphics. The area of study is on computer applications as a foundation in technological processing and dissemination of information. Modern information management includes discipline specific applications of graphic analysis, communication, databases, design, documentation, image creation, 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.

BACHELOR OF APPLIED SCIENCE (B.A.S.)

The Bachelor of Applied Science degree is a "capstone" degree for the Associate of Applied Science degree. The B.A.S. degree exposes students to advanced concepts and diverse critical thinking skills that prepare them for future career opportunities and professional advancement.

Admission

Admission to the B.A.S. degree program is restricted to students holding an A.A.S. degree from a regionally accredited U.S. postsecondary educational institution. A GPA of 2.00 or higher is required for all resident applicants and a 2.50 for nonresident applicants.

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Assignable credit	6
B.A.S. core	15
General Studies	19
Technical concentration	20
Total	120

General Studies Curriculum

The B.A.S. curriculum builds on the general education content of the A.A.S. degree. Additional General Studies L2/N2/N3 and awareness areas are met with courses in the core or specialization. General Studies courses focus on contextual learning.

HU	3
HU or SB	3
L1	3
N1	3
S2	4
SB	3
Total	19

Assignable Credit

Assignable credit allows space in the curriculum for prerequisite courses needed to succeed in the program. The courses are determined by the student and the advisor.

B.A.S. Core

The area core focuses on management and organization, professional communication, quantitative analysis, and computer competency.

CGC 310 Computer Graphics Program in C++ N3	3
or CGC 494 51 Computer Systems Applications	3
IMC 346 Management Dynamics	3
ITM 457 Industrial Human Resource Management	3
or IMC 470 Project Management	3
SFP 420 Introductory Applied Statistics N2	3
or ME 401 Quality Assurance	3
TWC 401 Technical Communications L2	3
Total	15

Technical Concentrations

Operations Management Technology. The purpose of this technical concentration is to prepare supervisors for management functions in industry, manufacturing, and public service organizations. The B.A.S. degree provides the management and supervision content required for industry and governmental agencies.

Digital Media Management. This concentration prepares graduates for technical positions in industries implementing, planning, and producing interactive communications, integrated media, and multimedia for design, training, and marketing. Prospective students with A.A.S. degrees in areas such as: multimedia, printing and publishing, commercial graphics, desktop publishing, or computer illustration, may be interested in pursuing a digital media management concentration.

Technical Graphics. This concentration prepares graduates for positions in industries implementing technical and engineering graphics in Computer Aided Design and Computer Integrated Manufacturing. A.A.S. degrees in drafting and design, computer aided design, computer integrated manufacturing technology, mechanical technology, architectural technology, or construction technology may provide an excellent foundation for a technical graphics concentration.

Digital Publishing. This concentration prepares graduates for lead technical and entry level management positions in the printing and publishing industry. A.A.S. degrees in multimedia, printing and publishing, commercial art, desktop publishing, or computer illustration may find that this technical concentration provides excellent opportunities.

Emergency Management. The concentration prepares graduates for positions in industry, municipal departments, and government agencies. The curriculum addresses the established Federal Emergency Management Administration FEMA guidelines, on site emergency response, contingency planning, first responder scene management, logistical analysis, and communications protocol.

Fire Service Management. This concentration prepares graduates for positions in industry, municipal departments, and governmental agencies. The curriculum addresses services delivered by fire departments, fire service personnel development, zoning, planning, inspections, and arson investigations.

COMPUTER GRAPHIC COMMUNICATIONS (CGC)

CGC 135 Graphic Communications. 3 F/S
Introduction to the technologies involved in the design, image generation, transmission, and industrial production of multiple images for commercialization. Lecture, laboratory

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, laboratory. 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, laboratory. Prerequisite: ETC 100

CGC 212 Computer-Aided Design and Drafting (CADD). 3 S
CADD for product design representation and documentation includes projection theory, descriptive geometry, graphics analysis, drafting standards, and precision drawing techniques. Lecture, laboratory. Prerequisite: ETC 100 or instructor approval. *General Studies N3*

NOTE: For the General Studies requirement course, a list of courses such as L1, N3, C, and H, see General Studies, page 85. For graduation requirements, see University Graduation Requirements, page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see Catalog of Courses, page 58.

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: TWC 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 design flowcharting storyboarding proposing configuring, prototyping and presenting multimedia projects. Lecture. Lab. Prerequisites: CGC 21 and 237 and 311 or instructor approval.

CGC 332 Image Assembly and Plate Preparation. 3 F

Composition of film or digital images for reproduction using various image carriers direct to press technology. Lecture. Lab. 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 copy formats and conversions 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 lithography 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 graphics. Lecture. Lab. Prerequisite: CGC 334

CGC 339 Estimating and Cost Analysis. 3 S

Management decisions on making and cost finding procedures for reproduction processes includes analysis of equipment labor and material costs. Prerequisite: CGC 135

CGC 352 Technical Presentations and Visual Literacy. 3 S

Planning technology and delivery of individual and group presentations for multimedia and persuasive applications. Prerequisite: ENG 102

CGC 410 Graphics User Interfaces and Database Programming (C++). 3 F S

GUI design and programming Windows standards protocols and use of professional managers database templates visual browsers and OOPS. Lecture. Lab. Prerequisites: CGC 10 or equivalent C++ language programming course and 314 or instructor approval.

CGC 411 Computer Animation and Special Effects (F/X). 3 F

2D and 3D computer animation principles and methods: production 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 content derivations interactive navigation crossplatforming 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 design appearance authoring packaged media format media presentation formats production marketing and copyright considerations. Lecture. Lab. Prerequisites: CGC 411 and 412 or instructor approval.

CGC 414 Web Site Design and Internet/Web Technologies. (3) S

Website design authoring standards protocols tools and development technique 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 management and technology considerations business plan development. Lecture. Lab. Prerequisite: CGC 412 or instructor approval.

CGC 416 Emerging Computer Graphics and Digital Media Technologies. 3 S

Emerging computer graphics and digital media technologies a database VR/VRML inverse kinematics F/X plug-ins hybrid modeling Web intermedia GIS mapping. Lecture. Lab. Prerequisites: 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/Website application. 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 enterpris and defined management responses. Lecture. Lab. Prerequisites: CGC 333-334

CGC 436 Gravure Technology. 3 S

In-depth study of the market price and production sequences related to the gravure method printing. Prerequisite: CGC 35 or instructor approval.

CGC 437 Color Reproduction Systems. 3 F

Scientific analysis of 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.

CGC 439 Digital Prepress. 3 N

The study of digital prepress system hardware, software networks and direct imaging technology. Lecture. Lab. Prerequisite: MC 233

CGC 494 ST: Computer Systems Applications. 3 F S

CGC 510 Computer Graphics Programming: Design, Customization, and Development. 3 N

Advanced design development and documentation for Windows application programs including G OOP RAD API DLLs and GD in C++ and Java. Lecture. Lab. Prerequisites: CGC 310 and 410 or equivalent G OOP course or instructor approval.

CGC 511 Procedural and Physically Based Character Animation. 3 N

Creative and aesthetic design storyboard planning development, and documentation of constraint-based procedural and interactive character avatar tools and production simulations. Lecture. Lab. Prerequisites: CGC 411 and 510 or equivalent or instructor approval.

CGC 512 Multimedia Based Education and Training. 3 F S S

Creative design planning development and production of technology-based learning multimedia based education and training materials and programs. Lecture. Lab. Prerequisites: CGC 412 and 413 or equivalent 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 experiential, and interactive VR environments in education and training. Involvement in 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. Prerequisite: 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. Prerequisite: 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 360 Introduction to Emergency Management. (3) F

Emergency management theories. Comprehensive emergency management. Mitigation, preparedness, response and recovery. Post disasters and policy format. Current FEMA a hazards approach.

ETM 362 Managing Natural and Technological Disasters. (3) S

Federal, state and local responses to emergencies. Management of mass casualties, evacuation, sheltering, and terrorism. Decaration of emergency procedures.

ETM 363 Computer Applications in Emergency Management. (3) S

Specific computer programs will be explored which are currently in use for contingency planning, tracking chemical inventories and response resources. Cross listed as FSM 363. Credit awarded on y for ETM 363 or FSM 363.

ETM 364 Toxicology and Biohazards in Emergency Management.

(3) F

Introduction to poisons. Dose response routes of exposure and toxicokinetics. Diseases associated with natural disasters. Clinical presentation of treatments.

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 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. Prerequisite: ETM 301.

ETM 426 Environmental Issues. (3) S

Explanation of the science and policy implications of contemporary problems that threaten the environment. Prerequisite: 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 460 Incident Management Systems and Emergency Operations Center. (3) F

Course MS term noogy payers and management philosophy. EOC setup, activation, operation and termination. EOC funding and politics. Cross listed as FSM 460. Credit awarded on y for ETM 460 or FSM 460.

ETM 461 Contingency Planning. (3) N

Provides student with an understanding of techniques for risk use or on site planning as well as community planning.

ETM 468 Simulation and Exercising. (3) N

Requirements planning, conduct and critique exercises related to emergency planning. Emphasizes on realism, simulation and projects.

ETM 494 ST: Bioremediation. (3) S

Technical regulatory and policy issues emanating from mining and animal waste. Lecture, case studies.

ETM 501 Principles of Hazardous Materials and Waste Management. (3) F

Foundation for courses in curriculum. Topics include definitions of toxic and hazardous substances and wastes. RCRA classification and OSHA criteria. Prerequisite: 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 relationship, toxicity testing methods, 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 methodology for sampling and analysis of soil and water. Includes quality assurance and regulatory elements. 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 recognition and measuring hazards, control techniques and regulatory standards. Prerequisite: 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 air pollution. 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 cleaning up contamination. Investigative techniques, monitoring, risk assessment 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.

NOTE: For the General Studies requirement, courses and codes such as L1, N3, C and H, see General Studies page 85. For graduate requirements, see University Graduate on Requirements page 81. For an explanation of additional miscellaneous courses offered but not listed in this catalog, see Classification of Courses, page 58.

ETM 525 Risk Assessment for Hazardous Materials. 3 S

Application of the risk assessment process in situations ranging from hazardous facilities regulated 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 statutory requirements Emphasis on Superfund hazardous materials toxics and liability contracts
Prerequisite: ETM 501

ETM 598 ST: Advanced Bioremediation. 3 S

Management and policy issues related to bioremediation of metal mining and animal waste and replacement of chemical controls with biological methods
Lecture case studies

FIRE SERVICE MANAGEMENT (FSM)**FSM 304 Fire Personnel Management.** 3 F

Topics include promotion personnel development career and incentive systems, evaluation physical requirements managerial and supervisory practices

FSM 305 Quality Emergency Services. 3 N

Covers quality issues relating to services delivered by progressive fire departments
Covers management of personnel and resources during organizational change

FSM 306 Fire Prevention Organization and Management. 3 N

Examination and evaluation of the techniques procedures programs and agencies involved in preventing fires

FSM 363 Computer Applications in Emergency Management. 3 S

Specific computer programs will be explored which are currently in use for contingency planning, tracking chemical inventories and response resources
Cross-listed as ETM 363
Credit awarded on only for ETM 363 or FSM 363

FSM 400 Human Behavior and the Fire Threat. (3 N

Proper ways of conducting post fire interviews emphasizes the psychological effects of communication during emergencies

FSM 421 Political and Legal Consideration in Fire Science 3 S

Study of legal and political considerations that affect decisions on making of fire service managers

FSM 425 Fire Service Administration. (3) F

Presentation of modern management and planning techniques that apply to organizing a fire department

FSM 460 Incident Management Systems and Emergency Operations Center. (3 F

Covers MIS terminology payers and management philosophy EOC setup activation operation and termination EOC funding and policies
Cross-listed as ETM 460
Credit awarded on only for ETM 460 or FSM 460

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 methodology for materials testing and quality control in various manufacturing processes
Lecture field trips

IMC 346 Management Dynamics. 3 F, S

Management changes in the leadership skills needed to achieve organizational objectives in the changing industrial and technological environments
Prerequisite: junior or 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 teams with a group organization, including team building motivating planning tracking activities and computer tools
Prerequisites: ECN 111 MC 346 TM 344

INDUSTRIAL TECHNOLOGY MANAGEMENT (ITM)**ITM 343 Occupational Safety and Ergonomics.** (3) F

Health and safety movement accident theories and effects, OSHA standards and safety safeguarding hazards workers compensation ergonomics and safety
Prerequisite: junior or 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: MC 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: MC 346

ITM 430 Ethical Issues in Technology. 3 S

Topics in social responsibility for industrial technology and engineering
Prerequisite: MC 346

ITM 440 Introduction to International Business. 3 S

International business principles and operations including partnership trade agreements currency issues international sales and cultural differences between countries
Prerequisite: MC 346. *General Studies: G.*

ITM 445 Industrial Internship. 1 10 F, S, SS

Work experience assignment in industry commensurate with student's program
Specified instruction by industry with university supervision
Pass fail
Prerequisites: advisor approval; junior or 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: MC 346 TM 343.

ITM 452 Industrial Human Resource Management. 3 F

Concepts and practices of human resource management in a global industrial environment
Prerequisite: MC 346

ITM 453 Safety Management. 3 N

Development and management of safety programs education and training and relationships with an organization
Prerequisite: TM 343 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 or standing

ITM 456 Introduction to Organized Labor. 3 S

Introduction to labor relations unions federal or collective bargaining grievances and labor legislation.
Prerequisites: IMC 346, TM 344

ITM 461 Operations Management. 3 F

Introduction to supervisory principles as applied to production of goods and services
Prerequisites: MC 346 TM 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: MC 346

ITM 501 Managerial Economics. 3 N

Basic managerial economics and techniques applied to unique concerns of scientific activities 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 format

ITM 503 Marketing Management. 3 N

Modern methods and industrial case studies of planning pricing promotion and distribution goods and services in the global marketplace
Prerequisites: TM 480 equivalent instructor approval

ITM 504 Law and Ethics for Technical Professionals. 3 N

Analysis of legal and ethical frameworks 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: TM 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, development, evaluation, and management of industrial and governmental programs
Prerequisite: ITM 480
- ITM 552 Global Management Philosophies.** (3) N
Analysis and comparison of significant supervisory philosophies developed in various industrial nations and their potential application in the United States
- ITM 560 Managerial Decision Making.** (3) F
Analysis of common decisions making basics and techniques to overcome them. Uses both subjective quantitative decisions tools and computerized decisions aids
- ITM 570 Advanced Project Management.** (3) S
Planning, organizing, coordinating, and controlling staff and project groups to accomplish the project objective

Department of Manufacturing and Aeronautical Engineering Technology

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COLLINS

ASSOCIATE PROFESSORS
KELLEY, PALMGREN, ROGERS, SCHMIDT

ASSISTANT PROFESSOR
RAJADAS

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 the B.S. degree in Manufacturing Engineering Technology and the B.S. degree in Aeronautical Engineering Technology.

For students holding an A.A.S. degree the department offers the B.A.S. degree with a concentration in production technology.

A Master of Technology degree is offered for graduate study. See the *Graduate Catalog* for more information about the graduate programs.

B.S. Degree Requirements

All degree requirements for the program are shown on curriculum check sheets. Requirements include First Year Composition, university General Studies (see "General Studies," page 85), 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 concentration	11
Total	128

The following courses constitute the Manufacturing Engineering Technology major and are required of all manufacturing engineering technology students. Refer to the specific concentrations 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

NOTE: For the General Studies requirement, courses and codes (such as L1, N3, C and H) see General Studies, page 85. For graduation requirements see University Graduation Requirements, page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses, page 58.

MET 341 Manufacturing Analyst	3
MET 344 Cost and Timing Processes	3
MET 345 Advanced Manufacturing Processes	3
MET 396 Manufacturing Professional Orientation	1
MET 4 Quality Assurance	3
MFT 416 Applied Computer Integrated Manufacturing VI	3
MET 443 NC Computer Programming	3
MET 444 Product Control	3
MET 453 Robotics Applications	3
MET 46 Manufacturing Capstone Project I	3
MET 461 Manufacturing Capstone Project II	3
Total	52

A student participating in the Manufacturing Engineering Technology program may select from two concentrations: manufacturing engineering technology or mechanical engineering technology.

Manufacturing Engineering Technology Concentration.

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

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 material reuse, 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
Total	11

Mechanical Engineering Technology Concentration.

The primary objective of the mechanical engineering technology concentration 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 435 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 "General Studies," page 85), 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 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 Measurements 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 with C Applications	3
Or other language program	
EET 436 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
Technical elective	6
Total	63

BACHELOR OF APPLIED SCIENCE (B.A.S.)

The Bachelor of Applied Science degree is a "capstone" degree for the Associate of Applied Science degree. The B.A.S. degree exposes students to advanced concepts and diverse critical thinking skills that prepare them for future career opportunities and professional advancement.

Admission

Admission to the B.A.S. degree program is restricted to students holding an A.A.S. degree from a regionally accredited U.S. postsecondary educational institution. A GPA of 2.00 or higher is required for all resident applicants and a 2.50 for nonresident applicants.

Degree Requirements

The B.A.S. degree in the College of Technology and Applied Sciences consists of 60 semester hours of upper-division (300 level and above) courses, with 30 hours in residence.

A.A.S. degree transfer	60
Assignable credit	6
B.A.S. core	15
General Studies	19
Technical concentration	20
Total	120

General Studies Curriculum

The B.A.S. curriculum builds on the general education content of the A.A.S. degree. Additional General Studies (L2/N2/N3 and awareness areas) are met with courses in the core or specialization. General Studies courses focus on contextual learning.

HU.....	3
HU or SB.....	3
L1.....	3
N1.....	3
S2.....	4
SB.....	3
Total.....	19

Assignable Credit

Assignable credit allows space in the curriculum for prerequisite courses needed to succeed in the program. The courses are determined by the student and the advisor.

B.A.S. Core

The area core focuses on management and organization, professional communication, quantitative analysis, and computer competency.

IMC 470 Project Management.....	3
ITM 344 Industrial Organization.....	3
MET 401 Quality Assurance.....	3
MET 416 Applied Computer Integrated Manufacturing A3.....	3
TWC 400 Technical Communications L2.....	3
Total.....	15

Technical Concentration

Production Technology. This concentration prepares supervisors and other personnel for technical and management positions in the manufacturing industry. The students increase their knowledge of manufacturing and gain insight into other areas, such as management, that support their professional growth.

AERONAUTICAL ENGINEERING TECHNOLOGY (AET)

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, proper 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 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. Credit is awarded only for AET 409 or AMT 409. Prerequisites: 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 the 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, backbody 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 physics, sciences, modeling of physical problems, perturbation techniques, curvefitting, data analysis, numerical solutions, ordinary and partial differential equations.

MANUFACTURING ENGINEERING TECHNOLOGY (MET)

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

MET 231 Manufacturing Processes. (3) F
Design, documentation and material processes on plastics, ferrous and nonferrous materials. Emphasizing orthographic projection, geometric dimensions and tolerances. Lecture, lab. Prerequisite: MAT 117 or 170.

MET 300 Applied Material Science. (4) F
Principles of material science emphasizing concepts relevant to manufacturing and use. Discuss metals, polymers, ceramics and composites. 3 hours lecture, 1 hour lab. Prerequisite: MET 231 or instructor approval.

MET 302 Welding Survey. (3) F
Theory and application of industrial welding processes. Introductory welding metalurgy and welding design: SMAW, GTAW, GMAW, Oxyacetylene and brazing experiences. Lecture, lab. Prerequisite: upper class standing.

NOTE: For the General Studies requirement, courses and codes (such as L1, N3, C and H), see "General Studies" page 85. For graduation requirements, see "University Graduation Requirements" page 81. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 58.

MET 303 Machine Control Systems. (3 S)

Theory and application of electromechanical, hydraulic/pneumatic, fluidic and electrical control systems for manufacturing. Lecture/lab Prerequisites: ETC 201 or PHY 112, MAT 260

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; fitting procedures, safety codes and experimental techniques are covered. Lecture/lab Prerequisites: 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 packages, cylindrical fits, flat pattern development and surface finish requirements emphasized. Prerequisite: MET 313

MET 341 Manufacturing Analysis. (3) F

Organization and functional industrial requirements. Manufacturing economics and group technology. Wiring assembly and production plans. Analysis on industrial specifications. Prerequisite: MET 231 or 343

MET 343 Material Processes. (4) S

Industrial processing as applied to low, medium and high volume manufacturing. Basics of 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 metalurgy. Prerequisites: MET 300 and 313 or instructor approval

MET 345 Advanced Manufacturing Processes. (3) S

Material removal processes emphasizing advanced turning, milling and machining by students using cutting tooling. CNC programming for machining and turning centers. Lecture/lab Prerequisites: MET 231; 343

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 attitude and motion 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 Quality Assurance. (3) F

Introduction to statistical quality control methods, design of experiments, sampling, gage requirements, specifications, quality assurance tools emphasizing CNC/CMM programming. Lecture/lab. Prerequisite: junior or standing

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

Metallurgical 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

Metallurgical principles 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 refrigeration 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 statics. Basic fluid flow equations. Viscous flow in pipes 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 demonstration/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 mechanical design of machine elements and structures. Use of experimental stress analysis in design evaluation. Lecture/lab Prerequisite: AET 312 or MET 331 or instructor approval

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 Automation. (3) F

Introduction to automation. Topics included are assembly techniques, fixed and flexible automation systems, robots, material handling systems, sensors, and controls. Lecture/lab Prerequisite: MET 346

MET 452 Implementation of Robots in Manufacturing. (3) N

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

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 design, evaluation and analyzing components, assemblies and systems. Develop products/manufacturing techniques demonstrating state-of-the-art technology. Lecture/lab Prerequisites: MET 331, 341, 346, senior standing

NOTE: For the General Studies requirement courses, and codes such as L1, N3, C and H see General Studies page 85. For graduation requirements see University Graduation Requirements page 81. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses, page 58.

MET 461 Manufacturing Capstone Project II. (3) S

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

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 302, 313.

MET 494 ST: Special Topics. (1-3) F, S

Topics such as the following are offered:

- (a) Consumer Manufacturing
- (b) Manufacturing Process Simulation
- (c) Packaging Design

MET 501 Statistical Quality Control Applications. (3) S

SPC problem-solving techniques for implementation in industrial setting, design and analysis of experiments. Prerequisite: instructor approval.

MET 502 Specialized Production Processes. (3) F

Specialized production processes including lasers, electronic 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, S

Organization and project management of cellular manufacturing methods, including IIT and lean manufacturing. Prerequisite: instructor approval.

MET 512 Introduction to Robotics. (3) N

Introduction to industrial robots. Topics include: robot workspace, trajectory 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 metal removal procedures and processes. Lecture, lab. Prerequisite: instructor approval.

MET 517 Applied Computer-Integrated Manufacturing. (3) F

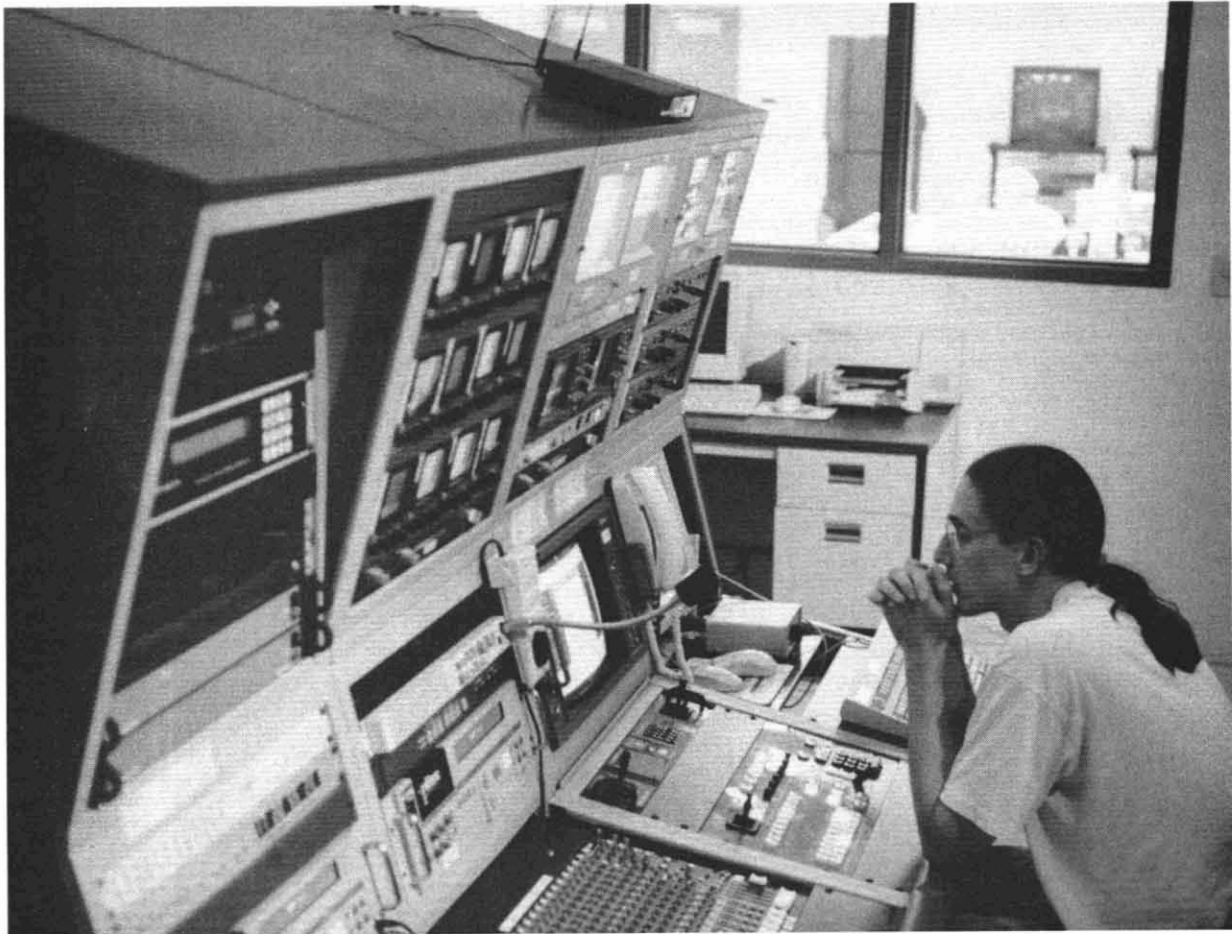
Techniques and practices of computer-integrated manufacturing, with an emphasis on computer-aided design and computer-aided manufacturing. Prerequisite: MET 346 or instructor approval.

MET 560 Fundamentals of Security Engineering. (3) F

Definitions of threats, fundamentals of design of physical protection systems, computer modeling and analysis of security systems.

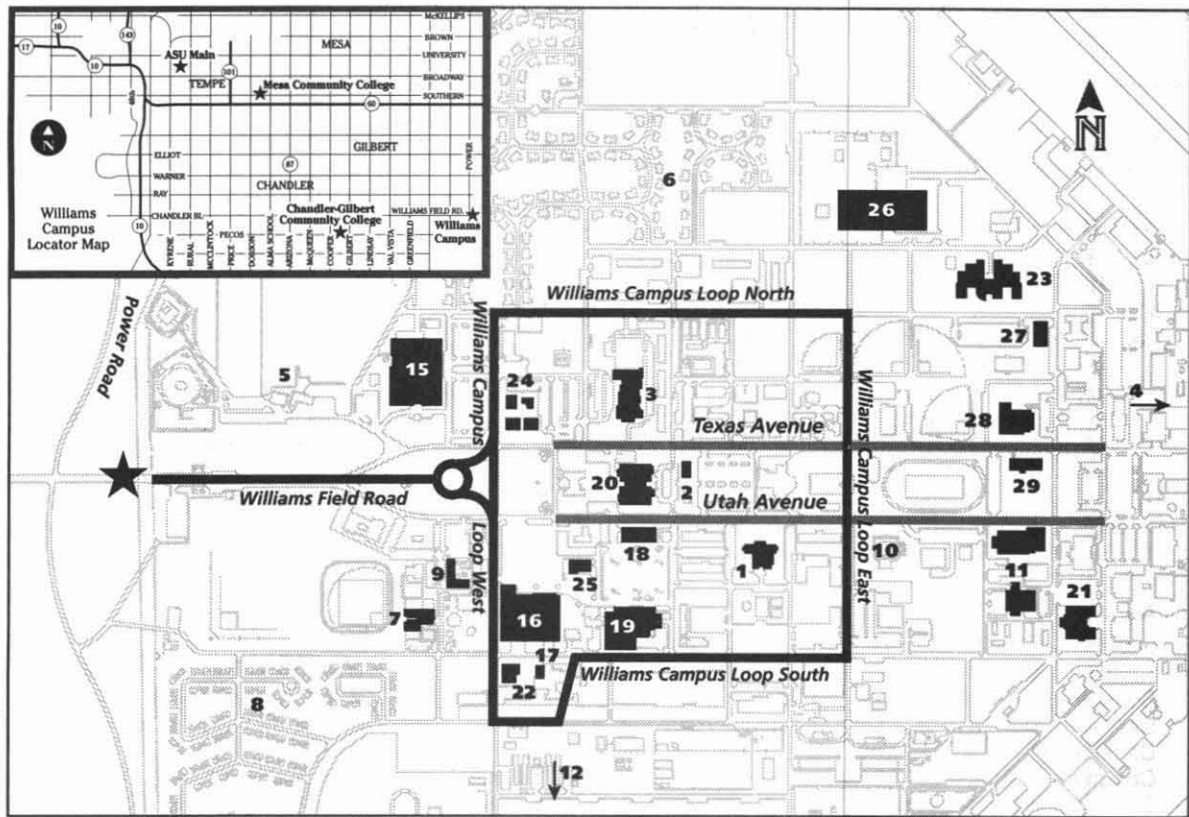
MET 571 Waste Minimization and Waste Prevention. (3) S

Life cycle analysis, selection of environmentally compatible materials, design of waste minimization equipment and operation, economics of waste minimization and prevention. Prerequisite: ETC 340 or instructor approval.



ASU East employee oversees the videotaping of an extended education class

Tim Trumble photo



WILLIAMS CAMPUS

- 1** - Williams Campus Dining Hall (El Mirage)
- 2** - Williams Campus Housing Office
- 3** - Williams Campus Union (CU)
- 4** - Williams Gateway Airport & Flight Line
- 5** - Toka Sticks Clubhouse & Golf Course
- 6** - North Desert Village
- 7** - Child Development Center (CDCTR)
- 8** - West Desert Village
- 9** - Administrative Services Building - Security (ADMIN)
- 10** - Swimming Pool (POOL)
- 11** - US Air Force Armstrong Laboratory Buildings
- 12** - South Desert Village

ASU EAST

- 15** - Veteran's Administration Regional Clinic (ASU East Student Health)
- 16** - Technology Center (TECH)
- 17** - Agribusiness Food Science Lab (AGBFS)
- 18** - Auditorium (AUD)
- 19** - Future Classroom and Lab Building
- 20** - Academic Center Building (CNTR)
- 21** - Classroom Building (CLRB)
- 22** - TECH II
- 23** - Flight Simulator Building (SIM)
- 24** - Morrison School of Agribusiness and Resource Management Complex (AGB 1-4)
- 25** - Center for Agribusiness Policy Studies (CAPS)

CHANDLER-GILBERT COMMUNITY COLLEGE AT WILLIAMS CAMPUS

- 26** - Aviation Technology Center, Embry-Riddle, and University of North Dakota (ATC)
- 27** - General Studies Building (GSB)
- 28** - Physical Education Center (PEC)
- 29** - Science Lab Building (SLB)



ASU East Directory

For the "ASU Main Directory," see page 477. For the "ASU West Directory," see page 583. Effective Sept 1, 1999, the area code is 480 for all numbers at ASU Main, ASU East, and Downtown Center but remains 602 for ASU West.

Academic Units

Agribusiness and Resource Management, Morrison School of.....	CNTR 20	727 1585
East College.....	CNTR 92	727 1515
Technology and Applied Sciences, College of	CNTR 10	727 1874
Aeronautics Management Technology, Department of.....	SIM Bldg 201.....	727 1775
Electronics and Computer Engineering Technology, Department of	TECH 101.....	727 1137
Information and Management Technology, Department of.....	TECH 102.....	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 92	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.	727 1700
Library Services	CNTR 110	727 1037
OASIS	CNTR Garden Level.....	727 3278
ASU Sun Cards		
Office of the Registrar		
Student Business Services		
Student Financial Assistance		
Undergraduate Admissions		
Williams Campus Parking Decks		
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
Campus Life Services	CNTR 52	727 1116

ASU East Faculty and Academic Professionals

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Abuleyaman, Ftayeb S. 1998), Associate Professor of Electronics and Computer Engineering Technology, B.S., University of Khartoum, Sudan, M.S., Oregon State University, Ph.D., University of Arizona

Autore, Donald D. (1959), Professor Emeritus of Technology, B.S.E., University of Michigan M.S.E., Arizona State University

B

Backus, Charles E. 1968, Professor of Electrical Engineering; Provost, ASU East; B.S.M.E., Ohio University, M.S. Ph.D., University of Arizona

Barchilon, Marian G. 1989, Associate Professor of Technical Communication, 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

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

Burkink, Tim 1998, Assistant Professor of Agribusiness and Resource Management, B.S., M.B.A., Ph.D., University of Nebraska, Lincoln

C

Carlsen, Paul A. 1978, Professor Emeritus of Technology, B.A.E., M.N.S., Ed.D., Arizona State University

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Chalquest, Richard R. 1971, Professor Emeritus 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.A., Virginia Polytechnic Institute and State University, M.S., Ph.D., University of Illinois Urbana

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Daneke, Gregory A. 1982, Professor of Information and Management Technology, B.A., M.A. Brigham Young University, Ph.D., University of California Santa Barbara

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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

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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

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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, Morrison School of Agribusiness and Resource Management B.S. Illinois State University, M.S., Arizona State University

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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. 1956, Professor Emeritus 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.I., M.S.E., Ph.D., Arizona State University

J

Jackson, Andrew E. 1995, Assistant Professor of Aeronautical Manufacturing 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 Environment, I.R., 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, St. Out, Ed.D., University of Missouri

Kisielewski, Robert V. 1978, Professor Emeritus of Technology, B.S., M.F., M.S., M.E., University of Wisconsin, Madison

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Lawler, Eugene D. 1961, Professor Emeritus of Technology, B.S., Northern State College, M.A., Arizona State University

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Lipari, Charles A. 1995, Assistant Professor of Electronics and Computer Engineering Technology, B.S., F.E., M.S.E.E., University of Southwestern Louisiana, Ph.D., Louisiana State University

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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

Mausel, James E. 1955, Professor Emeritus of Electronics and Computer Engineering Technology, B.Eng. Sci., B.E.E., Electrical, M.S.E.E., Ohio State University

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Matson, John H. 1978, Associate Professor of Information Management Technology, B.S., M.S., Illinois State University

Matthews, James B. 1989, Professor Emeritus of Aeronautical Technology, B.S., Research Institute of Technology, M.S., Massachusetts Institute of Technology; Ph.D., University of Arizona

McBrien, Edward F. 1980, Professor Emeritus of Electronic Computer Technology, B.S.E., Penn 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., Texas State University, Ph.D., University of Kansas

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Miller, Victor J. 1958, Professor Emeritus of Agribusiness and Resource Management, B.S., M.S., Ph.D., University of Illinois

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Palmgren, Dale E. 1984, Associate Professor of Manufacturing and Aeronautical Engineering Technology, Interim Chair, Department of Manufacturing and Aeronautical Engineering Technology, Assistant Dean, College of Technology and Applied Sciences, 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

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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

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Raccach, Moshe 1981, 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

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Richards, Timothy J. 1994, Assistant Professor of Agribusiness and Resource Management, B.Com., 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, Associate Professor of Manufacturing and Aeronautical Engineering Technology, B.S., M.S., Montana State University, Ph.D., Arizona State University

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S

Salmirs, Seymour 1981, Professor Emeritus of Technology, B.A.E., M.S.A.E., Georgia Institute of Technology

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Schwalm, David E. 1986, Associate Professor of English, Dean of East College, Vice Provost ASUE, B.A., Carleton College, M.S., Ph.D., University of Chicago

Seperich, George J. 1976, Professor of Agribusiness and Resource Management; Associate Dean, Morrison School of Agribusiness and Resource Management, B.S., Loyola University Chicago, M.S., Ph.D., Michigan State University; Ph.D., University of Illinois, Urbana

Sheller, Don 1986, Professor Emeritus of Manufacturing Technology, B.M.E., Ohio State University, M.S., Arizona State University

Stanton, Julie V. 1996, Assistant Professor of Agribusiness, B.A., Carrolltown University, Ph.D., University of Maryland, College Park

Stiles, Philip G. 1969, Professor Emeritus of Agribusiness and Resource Management, B.S., University of Arkansas, M.S., University of Kentucky, Ph.D., Michigan State University

Sundararajan, Rajeswari 1976, 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

Turney, Mary Ann (1999), Associate Professor of Aeronautical Management Technology; B.A., LeMoyné College; M.A., Hofstra University; Ed.D., Nova Southeastern University

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

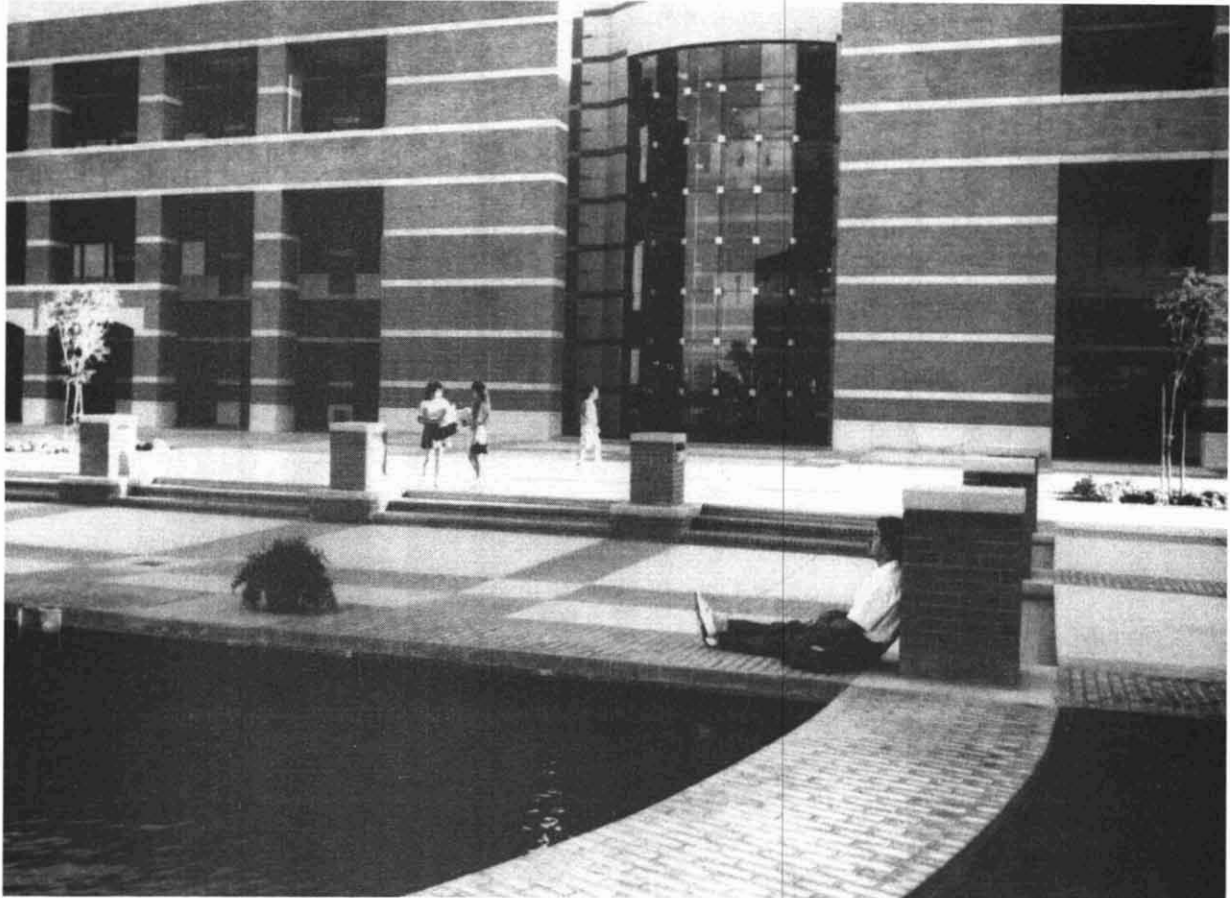
ASU East Administrative Personnel

Academic Administration

Provost	Charles E. Backus
Vice Provost Academic Programs and Dean, East College	David E. Schwam
Dean, College of Technology and Applied Sciences	Albert L. McHenry
Associate Dean, College of Technology and Applied Sciences	Lakshmi V. Munukutla
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
Interim Chair, Department of Manufacturing and Aeronautical Engineering Technology	Dale E. Palmgren
Project Director, International Projects Institute	Gary M. Grossman
Dean, Morrison School of Business and Resource Management	Raymond A. Marquardt
Associate Dean, Morrison School of Business and Resource Management	George J. Seperich
Director, Academic Services	C. Vinette Cowart
Director, Administrative Services	Terry C. Isaacson
Director American Indian Programs	Philip J. Huebner
Director Budget and Planning	Sheila A. Ainlay
Director Campus Life Services	Gary L. Keemann
Director, Center for Business Policy Studies	Eric P. Thor
Director, Development	Judith L. Heasley
Director, Information Technology	Kati L. Weingartner
Interim Director, Institutional Advancement.	C. Vinette Cowart
Director, Library Services	Charles W. Brownson
Director, Research and Sponsored Projects	Jean N. Humphries
Director, Student Affairs	<i>To Be Appointed</i>

ASU West

Elaine P. Maimon, Ph.D.
Vice President and Provost



Fletcher Library

ASU West file photo

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Administrative Personnel	590

ASU West currently offers 29 baccalaureate degree programs and five master's degree programs, plus specialized minors and programs leading to professional certificates. Degree programs are offered through five academic units:

1. College of Arts and Sciences
2. College of Education
3. College of Human Services
4. Division of Collaborative Programs
5. School of Management

Established in 1984 as a nonresidential campus, ASU West serves the diverse needs of approximately 5,000 working adults, returning students, and continuing students, many of whom balance academic demands with work and family. Students enjoy a small college atmosphere on a conveniently located, full-service neighborhood campus, while having access to the resources of a Research I, PAC 10 university.

Academic programs, classes, and support services (including childcare) are innovative and provide students with a high quality education. Classes are offered in the day and evening, as well as on weekends, through television (cable), on the Internet, and at off-campus locations.

The ASU West campus occupies more than 300 acres and is easily accessed via the interstate routes of I 10 and I 17. Facilities are state of the art and consist of seven major buildings (600,000 square feet) surrounded by a beautifully landscaped, natural environment.

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.

All Business and Accountancy degree programs in the School of Management are accredited by the American Assembly of Collegiate Schools of Business (AACSB), the official accrediting agency in the field of business administration.

In the College of Human Services, the Department of Recreation and Tourism Management is accredited by the National Recreation and Park 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," page 20.

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, Associated Students of ASU West, and numerous cross-campus and joint ASU West/ASU Main committees serving the needs of a rapidly growing institution.

See "ASU West Administrative Personnel," page 590 and "Academic Organization," page 8.

Admission and Advising

Nondegree Students. Nondegree students may take courses at ASU West according to the special provisions under "Admission of Nondegree Applicants—Undergraduate," page 63.

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. Students should contact an academic advisor at ASU West.

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. 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

ASU West Baccalaureate Degrees and Majors

Major	Degree	Administered by
Accountancy	B.S.	School of Management
Administration of Justice	B.S.	College of Human Services
American Studies Emphases: American cultures, American lives, American systems, writing	B.A.	College of Arts and Sciences
Applied Science Concentrations: all minors available at ASU West, individualized concentration	B.A.S.	Division of Collaborative Programs
Communication Studies Emphases: communication and culture, communication and organizations; communication and relationships; rhetoric, philosophy, and media studies	B.A., B.S.	College of Human Services
Elementary Education Concentrations: bilingual education, early childhood education, English as a second language Option: middle school education	B.A.E.	College of Education
English	B.A.	College of Arts and Sciences
Global Business Concentrations: financial management, human resources management, information systems management, international studies, marketing	B.S.	School of Management
History	B.A.	College of Arts and Sciences
Integrative Studies Concentrations: all minors available at ASU West, individualized concentration	B.A.	College of Arts and Sciences
Interdisciplinary Arts and Performance Concentrations: media, music, performance studies, theater performance, visual art	B.A.	College of Arts and Sciences
Life Sciences Emphases: cell biology and physiology, ecology and organismal biology, human biology and environment	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 Academic specializations: biological sciences, English, history, mathematics, social studies Option: middle school education	B.A.E.	College of Education
Social and Behavioral Sciences Emphases: interdisciplinary behavioral sciences, interdisciplinary social 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

should contact an admissions counselor as a first step in the admission process. Call 602-543-8203 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 Baccalaureate Degrees and Majors" table, the "ASU West Graduate Degrees and Majors" table, page 581, and "ASU West Certificates" table, page 581.

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.

ASU West Graduate Degrees and Majors

Major	Degree	Administered by
Business Administration	M.B.A.	School of Management
Educational Administration and Supervision	M.Ed.	College of Education
Elementary Education	M.Ed.	College of Education
Concentrations: bilingual education, educational media and computers, ESL education, reading		
Secondary Education	M.Ed.	College of Education
Concentration: educational media and computers		
Special Education	M.Ed.	College of Education
Concentration: infants and young children		

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 development; physical education; physics; political science; and Spanish.

For more information on ASU West degree requirements, see the *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," page 434.

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 *ASU West Catalog*.

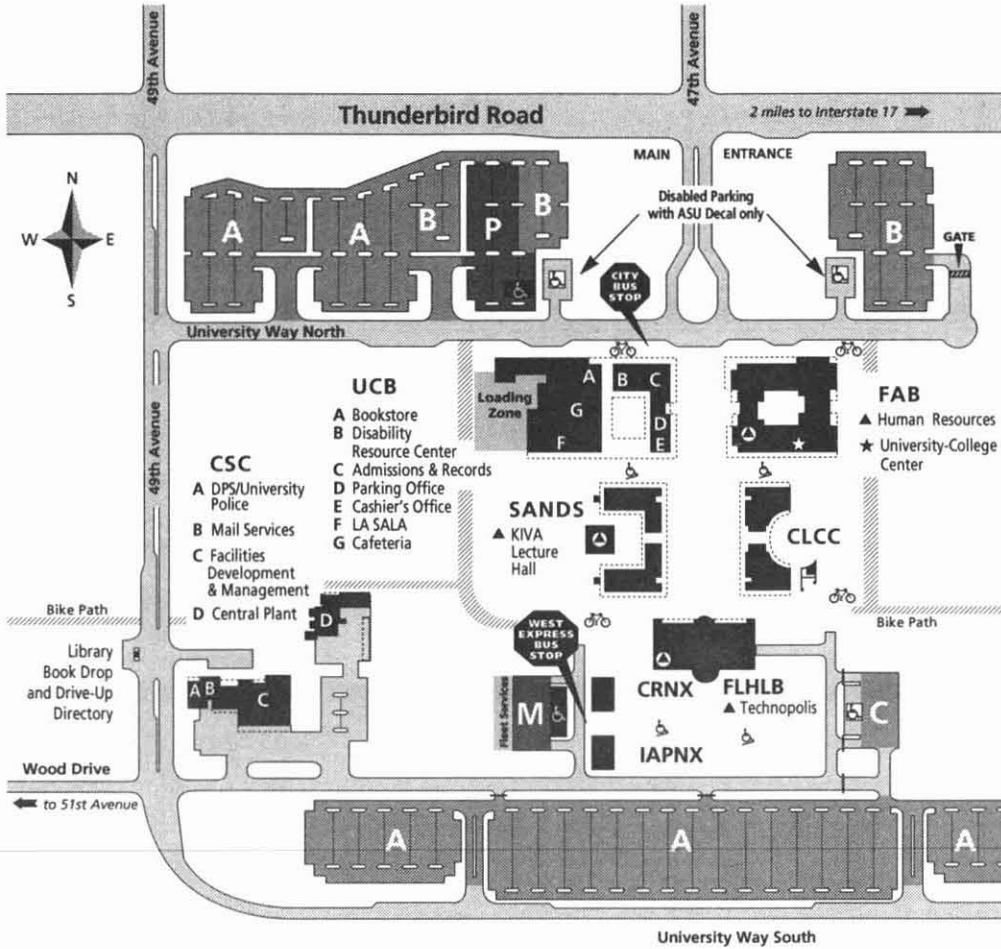
ASU West Certificates

Certificate	Administered by
Accountancy, Postbaccalaureate Certificate in	School of Management
Ethnic Studies, Certificate in	College of Arts and Sciences
Film and Video Studies, Certificate in	College of Arts and Sciences
Gerontology, Certificate in	College of Human Services
Women's Studies, Certificate in	College of Arts and Sciences
Writing, Certificate in	College of Arts and Sciences



Technopolis Computer Lab

ASU West file photo



ASU ARIZONA STATE UNIVERSITY WEST

4701 West Thunderbird Road • Phoenix, AZ • (602) 543-5500 • www.west.asu.edu

BUILDING LEGEND

- | | |
|---|---|
| <p>University Center Building (UCB)
 Admissions and Records
 Arizona State Savings & Credit Union
 Bank of America ATM
 Bookstore
 Cafeteria
 Career Services/Personal Counseling Center
 Cashier's Office
 Center for Writing Across the Curriculum
 Child Care Center
 Disability Resource Center
 Financial Aid/Student Employment Information Desk
 La Sala A,B,C
 Multicultural Services
 Parking Office
 Recruitment and Outreach
 Second Stage West Theatre
 Student Affairs Administration
 Student Health Services
 Student Life
 Student Support Services Program
 Tutoring and Testing Services
 University Transitions Program
 Veterans' Services
 Wellness/Fitness Center
 Women's Resource Center</p> | <p>Faculty/Administration Building (FAB)
 Academic Affairs
 Academic/Faculty Offices
 Administrative Affairs
 Basement classrooms
 College of Arts & Sciences
 College of Education
 College of Human Services
 Copy Center
 Human Resources
 Information Technology
 Instructional Technology Lab
 Information Desk
 Institutional Advancement
 Office of the Provost
 School of Management
 University-College Center</p> <p>Classroom Lab/ Computer Classroom Building (CLCC)
 Fletcher Library (FLHLB)
 Technopolis</p> <p>Sands Classroom Building (SANDS)
 Kiva Lecture Hall
 Copy Express</p> <p>Interdisciplinary Arts Annex (IAPNX)
 Classroom Annex (CRNX)</p> <p>Central Services Complex (CSC)</p> |
|---|---|

SYMBOLS LEGEND

- | | |
|---|--|
| Disabled Parking | Decal Parking (Students, faculty & staff only) |
| Disabled Decal Parking | Faculty/Staff Decal Parking (7 a.m. to 5:30 p.m.; Student decal parking allowed after 5:30 p.m.) |
| Metered Parking (25¢ per 15 minutes) | Faculty/Staff Decal Parking (24 hours/day) |
| Visitor Parking (\$1.00 exit fee, 24 hours) | Bicycle Racks |
| | Accessible Ramp |

Parking regulations are enforced at all times. Decals are required on campus from 7am through 11pm. Meters are enforced from 7am until 10pm.

ASU West Directory

For the "ASU Main Directory," see page 477 For the "ASU East Directory," see page 573. Effective Sept 1, 1999, the area code is 480 for all numbers at ASU Main, ASU East, and Downtown Center but remains 602 for ASU West

Academic Units (Administrative and Faculty Offices)

Arts and Sciences, College of	FAB N200L 3.....	543-6000
American Studies, Department of	FAB N220B ..	543-6090
Ethnic Studies Program.....	CLCC 208A...	543-6034
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 Program	FAB S115A .	543-3300
Collaborative Programs, Division of	FAB S144	543-4600
Bachelor of Applied Science Program	FAB S144	543-4BAS
Research Consulting Center	FAB S131	543-3410
University College Center.....	FAB S150	543-4222
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 S290 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 S270F.....	543-6602
Library Fletcher.....	FLHLB.....	543-8501
Circulation 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

Others

Admissions and Records (Registration Services Student Records)	UCB 120	543-8123
Associated Students of ASU West	UCB 226 ..	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 (Decals, 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
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
- 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, Director, Institute for International Business, 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
- 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
- Bettis, Carr** (1991), Associate Professor of Accountancy; B.B.A., University of Guam, Ph.D., Indiana University, Bloomington
- Brawley, E. Allan** (1992), Professor of Social Work, Interim Director, Division of Collaborative Programs, 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
- Broadus, Dorothy C.** (1990), Associate Professor of English, Chair, Department of American Studies, 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
- Burleson, Mary H.** (1997), Assistant Professor of Psychology, B.A., M.S., New Mexico State University, Ph.D., Arizona State University
- Buss, Ray R.** (1990), Associate Professor of Educational Psychology; Assistant Dean, College of Education; B.S., M.S., Ph.D., University of Wisconsin, Madison

C

- Cardelle-Elawar, Maria** (1987), Associate Professor of Educational Psychology; B.A., Universidad Experimental Libertador, Venezuela, M.S., University of Southern California, Ph.D., Stanford University
- Cárdenas, Lupe** (1986), Associate Professor of Spanish, B.A., M.A., Ph.D., Arizona State University
- Carey, James** (1998), Lecturer, School 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 Juillard School, M.A., Catholic University, D.M.A., West Virginia University
- Chaffin, Nancy** (1994), Assistant Librarian, B.A., M.L.S., University of Arizona
- Chang, Stanley Y.** (1992), Associate Professor of Accountancy, B.B.A., National Taiwan University, Taiwan, M.A., University of Missouri, Ph.D., Texas Tech University
- Chisholm, Inés M.** (1991), 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, Kathleen 1997, Assistant Librarian; B.A., University of Maine, M.L.I.S., Dalhousie University (Canada)

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; 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

Costantino, James (1998), Lecturer of Accountancy, B.S., M.Acc., Arizona State University, M.A., University of Southern California

Craig, Timothy P. 1990, Associate Professor of Ecology, B.S., Kansas State University, M.S., Ph.D., Northern Arizona University

Cuádriz, 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 Dean, College of Arts and Sciences; B.A., M.A., Ph.D., University of Texas, Austin

Cutrer, Thomas W. 1992, Professor of American Studies, B.A., M.A., Louisiana State University, Ph.D., University of Texas, Austin

D

Davidson, Ronald 1997, Associate Professor of Accountancy; Director Accountancy Program, 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; 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 (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

Elenes, C. Alejandra (1992), Assistant Professor of Women's Studies, Licenciada en Ciencia de la Información, University of Monterrey (Mexico); M.A., Ph.D., University of Wisconsin, Madison

Erfani, Julie A. Murphy 1989, Associate Professor of Political Science, B.A., Knox College, M.A., Ph.D., University of Minnesota, Twin Cities

F

Farest, Cynthia A. 1994, Assistant Professor of Reading Education, B.S., University of Texas, Austin, M.Ed., Houston Baptist University, Ph.D., University of Texas, Austin

Farrelly, Deg 1991, Associate Librarian, B.A., Illinois State University, M.L.S., Rutgers, The State University

Fedock, Patricia 1993, Assistant Professor of Science Education, B.A., M.A., Ph.D., Arizona State University

Feezor-Buttes, Barbara (1995), Assistant Professor of American Studies, B.A., University of California, Berkeley; M.A., Ph.D., University of California, Los Angeles

Fields, Jill S. 1998, Visiting Assistant Professor of American Studies, B.A., University of California, Santa Cruz; M.A., Ph.D., University of Southern California

Firat, A. Fuat 1990, Professor of Marketing, Licencé en Economie, Istanbul University, Turkey, Ph.D., Northwestern University

Flint, G. David 1998, Lecturer, School of Management, B.A., Grand Canyon University, M.I.M., American Graduate School of International Management, Ph.D., Texas A & M University

G

Gallegos, Bee (1984), Associate Librarian; B.S., University of North Alabama, M.L.S., George Peabody College for Teachers

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. 1990, 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

Gopalakrishnan, Mohan 1998, Associate Professor of Operations Production Management; B.E., College of Engineering (India), M.S., Ph.D., University of Alabama, Tuscaloosa

Graves, Joseph L. 1994, Associate Professor of Evolutionary Biology, Coordinator, Ethnic Studies Program, 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, Associate 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., Purdue University

Gutierrez, Sara E. 1990, Associate Professor of Psychology; B.S., M.A., Ph.D., Arizona State University

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

Haas, Nancy S. 1986, Associate Professor of Curriculum and Instruction, B.A., M.Ed., Ph.D., Arizona State University

Haladyna, Thomas M. 1986, Professor of Educational Research and Measurement, B.S., Illinois State University, M.A., San Jose State University, Ph.D., Arizona State University

Hammond, 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

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

Hayden, Mary 1998, Lecturer, School of Management, B.A., M.B.A., 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, Associate Professor of Psychology; B.A., University of California-Riverside; M.A., Ph.D., University of California, Los Angeles

Hess, Robert K. 1999, 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-Rolla; Indiana University, Bloomington

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ASU West Classroom Laboratory/Computer Building

ASU West file photo

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Director, Curriculum and Academic Articulation Julia R. Ramsden
Dean of Students; Associate Vice Provost, Student Affairs..... Sy va A. Si va
Vice Provost for Planning and Budget..... Barry R. Bruns
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Dean, ASU West Library He en L. Gater

University Offices

Interim Vice Provost for Research..... Jonathan Fink
Dean, College of Extended Education Bette F. DeGraw
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College of Arts and Sciences

Interim Dean, College of Arts and Sciences Em ly F. Cutrer
Chair, American Studies Dorothy C. Broaddus
Chair, Integrative Studies Thomas V. McGovern
Chair, Interdisciplinary Arts and Performance..... M chae E. Cerver s
Chair, Life Sciences Harvey F. Pough
Chair, Social and Behavioral Sciences Andrew Kirby
Chair, Women's Studies .. Asta r G. M. Mengesha

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Dean, College of Education W l i a m S. Svoboda
Assistant Dean, College of Education. Ray R. Buss

College of Human Services

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Chair, Administration of Justice Vincent J. Webb
Chair, Communication Studies..... Lesley Di Mare
Director, Gerontology Program Janet Shirreffs
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Coordinator, Bachelor of Applied Science Program..... *To Be Appointed*
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Director, Center for Writing Across the Curriculum Program Robert W. Jones
Director, University College Center Gebeyehu Ej gu

School of Management

Dean, School of Management Jonathan S. Iberman
Director, Accountancy Program Ronald Davidson
Director, Faculty Development Leanne E. Atwater
Director, Master of Business Administration Program. Abaga I. McWilliams
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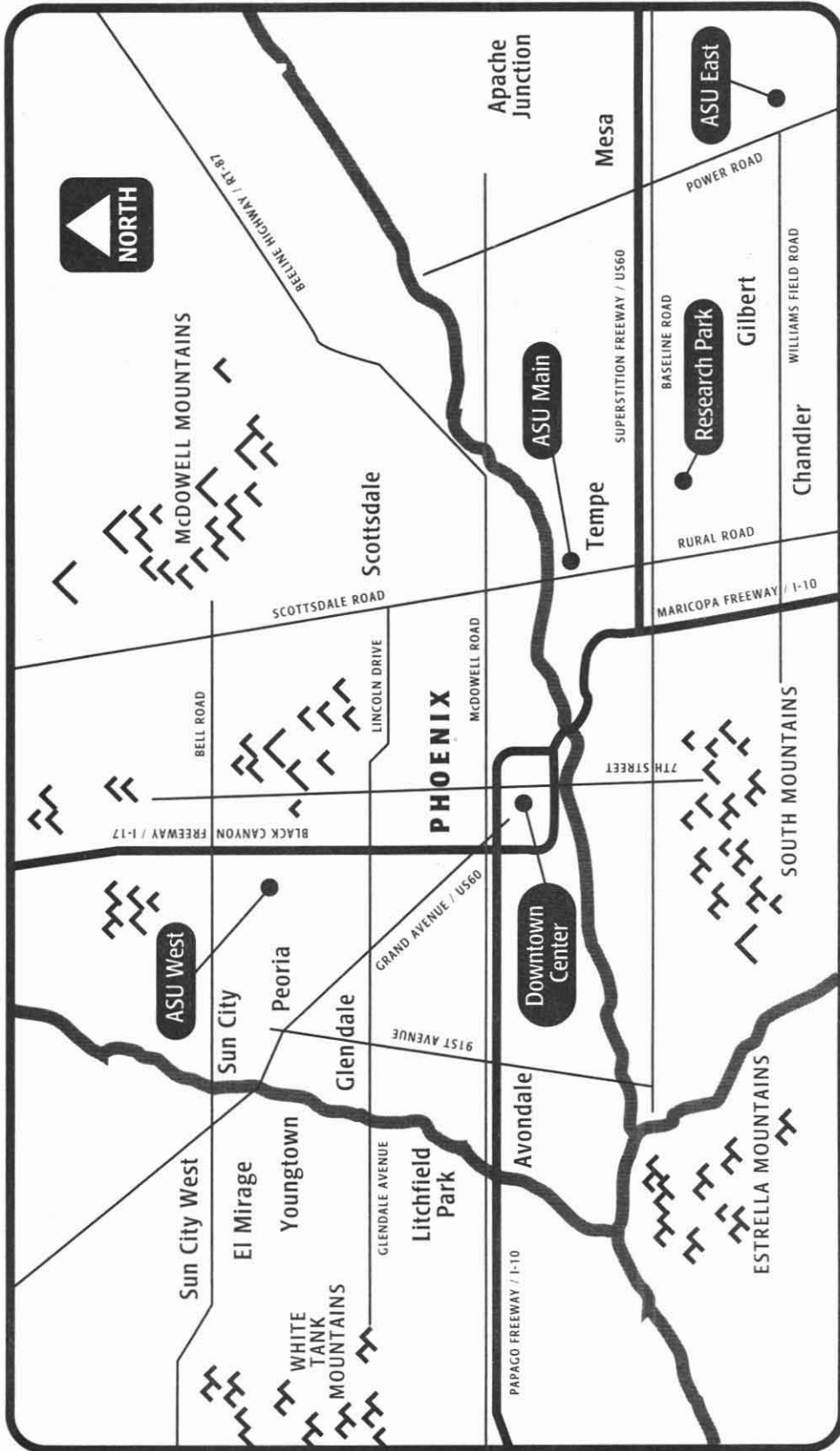
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Catalogs	www.asu.edu/aad/catalogs
East College (ASU East)	www.asu.edu/east/ecollege/eastcoll.html
Education, College of	www.ed.asu.edu/coe
Dean's Office	courses.ed.asu.edu/deanos/index.htm
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Recreation Management and Tourism, Department of	www.asu.edu/copp/recreation
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Schedule of Classes	www.asu.edu/registrar/schedule
Summer Sessions, Office of	www.asu.edu/ssc
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Bachelor of Interdisciplinary Studies	www.asu.edu/duas/bis
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ASU VICINITY MAP



MAP BY AL CAMASTO, ASU PDC, 2009

Building Abbreviations

ADM A	Administration A Wing	LAWLB	John J. Ross William C. Blakely Law Library
ADM B	Administration B Wing	LIB	Charles T. Hayden Library
AED	College of Architecture and Environmental Design/North Agriculture Building	LL	G. Homer Durham Language and Literature Building
AG	Agriculture Building	LSA	Life Sciences A Wing
AGB1-4	ASUE Agriculture Quads 1-4	LSC	Life Sciences C Wing
AGBFS	ASUE Agriculture Food Science Lab	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	Menoria 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	PBS	Packard Baseball Stadium
CLRB	Computer Classroom Building ²	PEBE	Physical Education Building East
CMPIN	ASUE Classroom Building ¹	PEBW	Physical Education Building West
CNTR	Campus Inn	PPS	Facilities Management
COMM	ASUE Academic Center Building	PRNT	ASUE Academic/Business Services Complex ¹
COMM	Center for Agriculture Policy Studies	PS (Wings A F)	George M. Bateman Physical Sciences Center
COWDN	Cowden Family Resources Building	PSH	Physical Science H Wing
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 ²
CRNX	Classroom Annex ²	SCOB (Wings A and B)	John W. Schwada Classroom Office Building
CSB	Community Services Building	SDF	Solar Demonstration Facility
CSC	Central Services Complex ²	SHS (Wings A and B)	Student Health Service
CUB	Williams Campus Union Buildings	SIM	ASUE Flight Simulator Building
ECA	Engineering Center A Wing	SOLAR	Photovoltaics Testing Laboratory
ECB	Engineering Center B Wing	SRC	Student Recreation Complex
ECC	Engineering Center C Wing	SS	Social Sciences Building
ECD	Engineering Center D Wing	SSV	Student Services Building
ECE	Engineering Center E Wing	STAD	Sun Devil Stadium
ECF	Engineering Center F Wing	STAUF (Wings A and B)	Charles Stauffer Communication Arts Building
ECG	Engineering Center G Wing	TC	Technology Center
ECANX	Engineering Center Annex	TCB	Aeronautics Building
ED	Hiram B. Farmer Education Building	TCC	Technology Center Annex
EDB	Ira D. Payne Education Hall	TECH	ASUE Technology Center
EDC	Education Lecture Hall	TECH2	ASUE Technology Center Annex ¹
ENGR	Engineering Research Center	THWH	Theatre Warehouse
FAB	Faculty and Administration Building ²	TOWER (Wings A and B)	University Tower Center
FAC	Nelson Fine Arts Center	TRACK	Joe Sellen Track
FIELD	University Field Lab	UAC	Wells Fargo Arena
FLHLB	Fletcher Library	UASB	Undergraduate Academic Services Building
GGMA	Grady Gammage Memorial Auditorium	UCB	University Center Building ²
GHALL	Grady Gammage Hall	UCLUB	University Club
GWC	Barry M. Goldwater Center for Science and Engineering Research	VISIT	ASU Visitor's Information Center
IAPNX	Interdisciplinary Arts and Performance Annex ¹	WFLD	ASU West Alternate Locations
ICA	Intercollegiate Athletics	WH	Warehouse
IRISH	Frederick M. Irish Hall	WHALL	West Hall
LAW	John S. Armstrong Hall	WILSN	George W. Wilson Hall
		WTC	Whiteman Tennis Center

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