

THA 202 Intermediate Thai II. (5)*spring*

Systematic review of grammar. Continued development of communication skills with increased emphasis on reading and writing. 4 hours lecture, 1 hour lab. Fee. Prerequisite: THA 201 (or its equivalent).

*General Studies: G***VIETNAMESE (VTN)****VTN 101 Elementary Vietnamese I. (5)***fall*

Basic skills in modern conversational Vietnamese and development of basic reading and writing skills, with special emphasis on tones. 4 hours lecture, 1 hour lab.

VTN 102 Elementary Vietnamese II. (5)*spring*

Basic skills in modern conversational Vietnamese and development of basic reading and writing skills, with special emphasis on tones. 4 hours lecture, 1 hour lab. Prerequisite: VTN 101 (or its equivalent).

VTN 201 Intermediate Vietnamese I. (5)*fall*

Improves students' speaking, listening, reading, and writing competence through dialogues, reading passages, pattern drill, and grammar and communicative exercises. 4 hours lecture, 1 hour lab. Prerequisite: VTN 102 (or its equivalent).

*General Studies: G***VTN 202 Intermediate Vietnamese II. (5)***spring*

Improves students' speaking, listening, reading, and writing competence through dialogues, reading passages, pattern drill, and grammar and communicative exercises. 4 hours lecture, 1 hour lab. Prerequisite: VTN 201 (or its equivalent).

General Studies: G

ASU CARES is a program that allows students, faculty, and staff an opportunity to give service to the community outside the campus.

*Tim Trumble photo***Department of Mathematics****Rosemary A. Renaut***Chair***(PS A216) 480/965-3951****math.la.asu.edu****REGENTS' PROFESSOR****TROTTER****PROFESSORS**

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ISOM, KOLOSSA, RODY, SCHINELLER, VAZ, A. ZHU

LECTURERS

ABRAMSON, BLOOM, DOWNS, E. JACKIEWICZ, E. JONES, MARIS, MARTIN, MILLER, ODISH, RUEDEMANN, SIEBEN, SURGENT, TRACOGNA, TRAPUZZANO, T. TURNER, WALKER, WARD, Y. ZHU

The Department of Mathematics offers the B.A. and B.S. degrees in Mathematics. Students who plan to attend graduate school in mathematics or statistics should choose the B.S. degree. The B.S. degree in Mathematics is available with a concentration in computational mathematical sciences; however, the requirements for the degree with the concentration are distinct from the requirements for the degree without the concentration.

The department also offers a minor in Mathematics and an academic specialization in mathematics for students pursuing the B.A.E. degree in Secondary Education.

Related Field Course List. All students majoring in Mathematics need to refer to the related field course list. It is available from an advisor in PS A211, or from the department Web site at math.la.asu.edu/~undergrd/underprog/degree/related-fields.html.

NOTE: For the General Studies requirement, courses, and codes (such as L, SQ, C, and H), see "General Studies," page 78. For graduation requirements, see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 51.

MATHEMATICS—B.A.

The B.A. degree in Mathematics requires a minimum of 36 semester hours of course work in mathematics and statistics, and additional course work in closely related fields for a total of 51 semester hours. A grade of "C" or higher is required in all courses taken for the major. MAT 370 and 371 may not be used to satisfy these degree requirements. The required course work has the following components:

Core Courses

MAT 270	Calculus with Analytic Geometry I MA	4
MAT 271	Calculus with Analytic Geometry II MA	4
MAT 272	Calculus with Analytic Geometry III MA	4
MAT 300	Mathematical Structures L	3
MAT 342	Linear Algebra	3
MAT 370	Intermediate Calculus	3
	or MAT 371 Advanced Calculus I	3
Total		21

Computer Science Requirement

CSE 101	Principles of Programming with C++ CS	3
	or CSE 200 Concepts of Computer Science CS	3
Total		3

Advanced Courses in Mathematics and Statistics
Two courses from the following list, both preferably taken from the same grouping. 6

Algebra, Topology, and Number Theory

MAT 410	Introduction to General Topology	3
MAT 442	Advanced Linear Algebra	3
MAT 443	Introduction to Abstract Algebra	3
MAT 444	Intermediate Abstract Algebra	3
MAT 445	Theory of Numbers	3

Analysis and Applications

MAT 372	Advanced Calculus II	3
MAT 461	Applied Complex Analysis	3
MAT 472	Intermediate Real Analysis	3

Applied Mathematics and Dynamics

MAT 451	Mathematical Modeling	3
MAT 452	Introduction to Chaos and Nonlinear Dynamics	3
MAT 455	Introduction to Fractals and Applications	3

Computational Mathematics

MAT 420	Scientific Computing	3
MAT 421	Applied Computational Methods	3
MAT 423	Numerical Analysis I	3
MAT 425	Numerical Analysis II	3
MAT 427	Computer Arithmetic	3

Differential Equations

MAT 462	Applied Partial Differential Equations	3
MAT 475	Differential Equations	3
MAT 476	Partial Differential Equations	3

Discrete Mathematics

MAT 415	Introduction to Combinatorics	3
MAT 416	Introduction to Graph Theory	3
MAT 419	Introduction to Linear Programming	3

Statistics and Probability

STP 420	Introductory Applied Statistics	3
STP 421	Probability	3
STP 425	Stochastic Processes	3
STP 427	Mathematical Statistics	3
STP 429	Experimental Statistics	3

Additional Course Work in Mathematics and Statistics
Three courses in mathematics and statistics 9

Related Field Course Work

Twenty hours of course work in mathematics, statistics, or related fields 12

Acceptable mathematics courses are MAT 270-4 and upper division MAT courses, with the exception of MAT 360, 485, and ASU West MAT 411. Acceptable statistics courses are upper division STP courses.

See "Related Field Course List," page 401.

MATHEMATICS—B.S.

The Department of Mathematics has two avenues for earning a B.S. degree. The B.S. requirements are similar to the B.A. requirements, but they require more extensive courses in advanced mathematics. The program is flexible enough to allow students to focus their studies on mathematics, applied mathematics, or statistics. The computational mathematical sciences concentration is an interdisciplinary program with significant components of computer science, physical and biological sciences, and mathematics and statistics. The requirements for the B.S. degree and for the B.S. degree with the computational mathematical sciences concentration are distinct; neither is a subset of the other.

B.S. Requirements. The B.S. degree in Mathematics requires a minimum of 42 semester hours of course work in mathematics and statistics, and additional course work in closely related fields, for a total of 53 semester hours. A grade of "C" or higher is required in all courses taken for the major. MAT 370 and 371 may not both be used to satisfy these degree requirements. The required course work has the following components:

Core Courses

MAT 270	Calculus with Analytic Geometry I MA	4
MAT 271	Calculus with Analytic Geometry II MA	4
MAT 272	Calculus with Analytic Geometry III MA	4
MAT 300	Mathematical Structures L	3
MAT 342	Linear Algebra	3
MAT 371	Advanced Calculus I	3
Total		21

Computer Science Requirement

CSE 200	Concepts of Computer Science	3
Total		3

Depth Requirement
Two courses chosen from the following list of advanced courses 6

MAT 423	Numerical Analysis I	3
MAT 425	Numerical Analysis II	3
MAT 442	Advanced Linear Algebra	3
MAT 444	Intermediate Abstract Algebra	3
MAT 462	Applied Partial Differential Equations	3
MAT 472	Intermediate Real Analysis	3
MAT 475	Differential Equations	3
MAT 476	Partial Differential Equations	3
STP 421	Probability	3
STP 427	Mathematical Statistics	3

Advanced Courses in Mathematics and Statistics
Two courses from the following list, both preferably taken from the same grouping 6

Algebra, Topology, and Number Theory

MAT 410	Introduction to General Topology	3
MAT 442	Advanced Linear Algebra	3

MAT 443 Introductory Abstract Algebra 3
 MAT 444 Intermediate Abstract Algebra 3
 MAT 445 Theory of Numbers 3

Analysis in Applied Fields
 MAT 322 Advanced Calculus I 3
 MAT 461 Applied Complex Analysis 3
 MA 477 Intermediate Real Analysis 3

Applied Mathematics in Design
 MAT 451 Mathematical Modeling CS 3
 MAT 452 Introductory Chaotic and Nonlinear Dynamics 3
 MAT 455 Introductory Fractal and Applications 3

Computational Mathematics
 MAT 420 Scientific Computing 3
 MAT 421 Applied Computational Methods 3
 MAT 423 Numerical Analysis I CS 3
 MAT 425 Numerical Analysis II CS 3
 MAT 427 Computer Architecture CS 3

Differential Equations
 MAT 46 Applied Partial Differential Equations 3
 MAT 475 Differential Equations 3
 MAT 476 Partial Differential Equations 3

Discrete Mathematics
 MAT 415 Introductory Combinatorics 3
 MAT 416 Introductory Combinatorics 3
 MAT 419 Introductory Discrete Probability CS 3

Statistical Practice
 STP 42 Introductory Applied Statistics CS 3
 STP 421 Probability 3
 STP 425 Stochastic Processes 3
 STP 427 Mathematical Statistics 3
 STP 429 Experimental Statistics CS 3

Additional Course Work in Mathematics and Statistics
 Three courses in the mathematics and statistics department 9

Related Fields Course Work
 Ten hours of course work in the fields of statistics or related fields 3-9

- 1 Students who complete graduate work in the mathematics should choose additional relevant interdisciplinary requirements to satisfy the advanced research requirement
- 2 Acceptable related field courses are MAT 274 and periodics in MAT courses with the section MA 36, 485, and ASU West MAT 411. Acceptable statistics courses are 4-level STP courses
- 3 See "Read Field Circ List," page 4-1

Computational Mathematical Sciences Concentration Requirements. The BS degree in Mathematics with the computational mathematical sciences concentration requires a minimum of 36 semester hours of course work in mathematics and statistics, plus a minimum of 21 semester hours in physics, computer science, and other sciences for a minimum of 57 semester hours of course work related to the major. A grade of "C" or higher is required in all courses taken for the major. MAT 370 and 371 may not be used to satisfy these degree requirements. The required course work has the following components.

Core Courses

MAT 27	Calculus I Analytic Calculus	MA	4
MAT 271	Calculus II Analytic Calculus	MA	4

MAT 272	Calculus with Analytic Geometry I	MA	4
MAT 274	Elementary Differential Equations	MA	3
MAT 32	Mathematical Structures I	MA	3
MAT 342	Linear Algebra	MA	3
	total		21

Computer Science Requirement

CSE 22	Conceptual Computer Science	CS	3
CSE 211	Object Oriented Design and Data Structures	CS	3
CSE 31	Data Structures and Algorithms	CS	3
MAT 423	Scientific Computing	CS	3

Total 12

Physics Requirement

Students must complete introductory physics with lab 6 credits

PHY 121	University Physics I: Mechanics	SQ 3
	PHY 131	Physics II: SQ 4
PHY 131	University Physics II: Electricity and Magnetism	SQ 3
	or PHY 136	Physics II: SQ 4

It is strongly recommended that students taking PHY 131 and 131 also take the associated laboratory course PHY 122 and 132

Advanced Courses in Mathematics and Statistics

Choose one course from each of the following four groups 12

Group One

MAT 371	Advanced Calculus
MAT 463	Vectors Calculus 3

Group Two

MAE 471	Computational Fluid Dynamics
	or three courses as approved by an advisor
MAT 416	Introductory to Linear Programming CS 3
MAT 429	Applied Computational Methods CS 3
MAT 425	Numerical Analysis I CS 3
MA 425	Numerical Analysis II CS 3
STP 429	Experimental Statistics CS 3

Group Three

MAT 372	Advanced Calculus I
MAT 427	Computational Methods CS 3
MAT 45	Mathematical Modeling CS 3
MAT 452	Introductory Chaotic and Nonlinear Dynamics 3
MAT 461	Applied Complex Analysis 3
MAT 46	Applied Partial Differential Equations 3
MAT 455	Differential Equations 3
STP 42	Introductory Applied Statistics CS 3
STP 42	Probability 3

One course not a read ahead selection *Group One Two*

Group Four

One course from either *Group One Two* or *Three* and any of the 400-level MAT or STP course except for MAT 485 and ASU West MA 425

Second Science

Choose one of the following combinations below for one year sequence in meteorology or environmental science

AS 321	Introductory Meteorology and Stellar Astronomy	SQ 3
	or	
AST	Introduction to Galactic and Extragalactic Astrophysics	SQ 3

NOTE: For the General Studies requirement courses and courses as SQ C and H see General Studies page 8. For graduation requirements see University Graduation Requirement page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see Catalog Information page 51.

- BIO 181 General Biology SQ (4)
- BIO 182 General Biology SG (4)
- or
- GLG 101 Introduction to Geology I Physical SQ³G (3)
- GLG 102 Introduction to Geology II Historical SG⁴H (3)
- or

Any two of CHM 113, 114, 115, 116, 117 and 118 as permitted by the Department of Chemistry and Biochemistry⁵

- ¹ Other course combinations may be used upon approval of a departmental advisor.
- ² Both AST 113 and 321, or AST 114 and 372 must be taken to secure SQ credit
- ³ Both GLG 101 and 103 must be taken to secure SQ credit
- ⁴ Both GLG 102 and 104 must be taken to secure SG credit
- ⁵ See the individual course listings for restrictions

Advanced Science Course or Internship

One advanced course in a science for which a one-year course sequence in the same science is required or an internship, subject to advisor approval¹. 3

MAT 484 Internship 3

Any upper division course in plant biology PLB Chemistry (CHM) or microbiology MIC 3

Any upper division science or engineering course from the related field course list^{2,3}

- ¹ Other course may be used to satisfy this requirement on approval of a Department of Mathematics advisor
- Note that courses with prefixes ECN, FIN, MA, PHI and STP do not count toward this requirement. See "Related Field Course List," page 41

Statistics. Students interested in concentrating their mathematical studies on statistics should satisfy the requirements for a B.S. degree in Mathematics with the following courses. A grade of "C" or higher is required in all courses taken for the major. MAT 370 and 371 may not be used to satisfy these degree requirements

Core Courses

MAT 270 Calculus with Analytic Geometry I MA	4
MAT 271 Calculus with Analytic Geometry II MA	4
MAT 272 Calculus with Analytic Geometry III MA	4
MAT 300 Mathematical Structures I	3
MAT 342 Linear Algebra	3
MAT 371 Advanced Calculus I	3
STP 420 Introductory Applied Statistics CS	3
STP 421 Probability	3
STP 427 Mathematical Statistics	3
STP 429 Experimental Statistics CS	3
Total	33

Computer Science Requirement

CSE 200 Concepts of Computer Science CS	3
Total	3

Additional Advanced Courses in Mathematics and Statistics

Three courses from the following list 9

MAT 274 Elementary Differential Equations MA 3	
MAT 372 Advanced Calculus II 3	
MAT 423 Numerical Analysis I CS 3	
MAT 442 Advanced Linear Algebra 3	
STP 425 Stochastic Processes 3	

Required Related Field Course Work
 Statistics probability, mathematics or related fields 10

* See "Related Field Course List," page 401

Actuarial Science. The faculty in the Department of Mathematics offer courses that cover the content of the mathematical examinations of the Society of Actuaries. See the department's actuarial advisor for more information.

MINOR IN MATHEMATICS

The minor in Mathematics consists of a minimum of 20 semester hours. Required courses are as follows:

MAT 271 Calculus with Analytic Geometry II MA	4
MAT 272 Calculus with Analytic Geometry III MA	4
MAT 342 Linear Algebra	3
Total	11

Electives must be upper division courses in mathematics (MAT) or Statistics and Probability (STP). Students may not apply MAT 362, 485, or a course not offered at ASU's main campus to the math minor, unless otherwise approved by a math department advisor.

SECONDARY EDUCATION—B.A.E.

Mathematics. Students pursuing the major teaching field may choose from two options

Option One With this option, the academic specialization consists of the following required courses

CSE 100 Principles of Programming with C++ CS	3
or CSE 153 Applied Problem Solving with FORTRAN CS 3	
or CSE 200 Concepts of Computer Science CS 3)	
MAT 270 Calculus with Analytic Geometry I MA	4
MAT 271 Calculus with Analytic Geometry II MA	4
MAT 272 Calculus with Analytic Geometry III MA	4
MAT 300 Mathematical Structures I	3
MAT 310 Introduction to Geometry	3
MAT 342 Linear Algebra	3
MAT 370 Intermediate Calculus	3
or MAT 371 Advanced Calculus I (3	
MAT 443 Introduction to Abstract Algebra	3
or MAT 445 Theory of Numbers 3	
MTE 483 Mathematics in the Secondary School	3
STP 420 Introductory Applied Statistics CS	3
Total	36

The methods in academic specialization courses for mathematics are MTE 482 Methods of Teaching Mathematics in Secondary School and MTE 494 Special Topics: Advanced Methods of Teaching Secondary Mathematics. They are required as part of the Professional Teacher Preparation Program (PTPP) but cannot be counted as part of the 36-hour major requirement.

Option Two This option may be exercised only in combination with option two under "Chemistry," page 347, or "Physics," page 421. The program consists of 30 semester hours in mathematics. Required courses are as follows

MAT 270 Calculus with Analytic Geometry I MA	4
MAT 271 Calculus with Analytic Geometry II MA	4

MAT 272 Calculus with Analytic Geometry III MA	4
MAT 300 Mathematical Structures L	3
MAT 310 Introduction to Geometry	3
MAT 342 Linear Algebra	3
MAT 370 Intermediate Calculus MA	3
or MAT 371 Advanced Calculus I 3	
or MAT 460 Vector Calculus 3	
MAT 443 Introduction to Abstract Algebra	3
Total	27

Recommended

CSE 100 Principles of Programming with C++ CS	3
or CSE 200 Concepts of Computer Science CS 3	

Minor Teaching Field. The minor teaching field is a minor in mathematics for presecondary teachers, consisting of the following required courses:

MAT 27 Calculus with Analytic Geometry II MA	4
MAT 272 Calculus with Analytic Geometry II MA	4
MAT 300 Mathematical Structures L	3
MAT 310 Introduction to Geometry	3
MAT 342 Linear Algebra	3
MAT 370 Intermediate Calculus	3
or MAT 371 Advanced Calculus I 3	
Total	20

GRADUATE PROGRAMS

The faculty in the Department of Mathematics offer programs leading to the degrees of Master of Natural Science, M.A., and Ph.D. See the *Graduate Catalog* for requirements.

MATHEMATICS (MAT)**MAT 106 Intermediate Algebra. (3)**

fall, spring, summer

Topics from basic algebra such as linear equations, polynomials, factoring, exponents, roots, and radicals. Prerequisite: 1 year of high school algebra.

MAT 114 College Mathematics (3)

fall, spring, summer

Applications of basic college-level mathematics to real problems. Appropriate for students whose major does not require MAT 117 or 170. Prerequisite: MAT 106 or 2 years of high school algebra.

General Studies: MA

MAT 117 College Algebra. (3)

fall, spring, summer

Linear and quadratic functions, systems of linear equations, logarithmic and exponential functions, sequences, series, and combinatorics. Prerequisite: MAT 106 or 2 years of high school algebra.

General Studies: MA

MAT 119 Finite Mathematics. (3)

fall, spring, summer

Topics from linear algebra, linear programming, combinatorics, probability, and mathematics of finance. Prerequisite: MAT 117 or its equivalent.

General Studies: MA

MAT 170 Precalculus. (3)

fall, spring, summer

Intensive preparation for calculus. MAT 260, 270, and 290. Topics include functions, trigonometric matrices, polar coordinates, vectors, complex numbers, and mathematical induction. Prerequisite: with a grade of "B" or higher, MAT 106; Prerequisite with a grade of "C" or higher, MAT 117 or two years of high school algebra.

General Studies: MA

MAT 210 Brief Calculus. (3)

fall, spring, summer

Differential and integral calculus of elementary functions with applications. Not open to students with credit for MAT 260, 270, or 290. Prerequisite: MAT 117 or its equivalent.

General Studies: MA

MAT 242 Elementary Linear Algebra. (2)

fall, spring, summer

Introduction to matrices, systems of linear equations, determinants, vector spaces, linear transformations, and eigenvalues. Emphasizes development of computational skills. Prerequisite: 1 semester of calculus or instructor approval.

MAT 243 Discrete Mathematical Structures. (3)

fall, spring, summer

Logic, sets, functions, elementary number theory, and combinatorics. Recursion, algorithms, and mathematical reasoning and induction. Emphasizes connections to computer science. Prerequisite: 1 semester of calculus or computer programming.

MAT 251 Calculus for Life Sciences. (3)

fall and spring

Differential and integral calculus of elementary functions. Introduction to differential and difference equations. Emphasis on applications to the life sciences. Not open to students with credit for MAT 210, 260, or 270. Prerequisite: MAT 17 or its equivalent.

General Studies: MA

MAT 260 Technical Calculus I. (3)

not regularly offered

Analytic geometry, differential and integral calculus of elementary functions, emphasizing physical interpretation and problem solving. Not open to students with credit for MAT 210, 270, or 290. Prerequisite: MAT 170 or its equivalent.

General Studies: MA

MAT 261 Technical Calculus II. (3)

not regularly offered

Continuation of MAT 260. Prerequisite: MAT 260 or instructor approval.

General Studies: MA

MAT 262 Technical Calculus III. (3)

not regularly offered

Finite series, an introduction to differential equations and elementary linear algebra. Prerequisite: MAT 261 or its equivalent.

General Studies: MA

MAT 270 Calculus with Analytic Geometry I. (4)

fall, spring, summer

Real numbers, limits and continuity, and differential and integral calculus of functions of 1 variable. Not open to students with credit for MAT 290. The sequence MAT 270 and 271 may be substituted for MAT 290 to satisfy requirements of any curriculum. Prerequisite: with a grade of "C" or higher, MAT 170 or satisfactory score on placement examination.

General Studies: MA

MAT 271 Calculus with Analytic Geometry II. (4)

fall, spring, summer

Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, sequences, and series. Not open to students with credit for MAT 291. The sequence MAT 270, 271, 272 may be substituted to satisfy requirements for MAT 290 and 291. Prerequisite: with a grade of "C" or higher, MAT 270 (or its equivalent).

General Studies: MA

MAT 272 Calculus with Analytic Geometry III. (4)

fall, spring, summer

Vector-valued functions of several variables, multiple integration and introduction to vector analysis. The sequence MAT 270, 271, 272 may be substituted to satisfy requirements for MAT 290 and 291. Prerequisite: with a grade of "C" or higher, MAT 271 (or its equivalent).

General Studies: MA

MAT 274 Elementary Differential Equations. (3)

fall, spring, summer

Introduction to ordinary differential equations, adapted to the needs of students in engineering and the sciences. MAT 272 or its equivalent is recommended. Prerequisite: MAT 271 (or its equivalent).

General Studies: MA

NOTE: For the General Studies requirement, courses and codes such as L, SQ, C, and H, see General Studies, page 78. For graduation requirements, see University Graduation Requirement, page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see Classification of Courses, page 51.

MAT 290 Calculus I. (5)*not regularly offered*

Differentiate and integrate a calculus elementary functions plus formal analytic geometry and vector calculus. Prerequisite: MAT 170 or its equivalent.
General Studies: MA

MAT 291 Calculus I. (5)*not regularly offered*

Further applications of calculus part differential and multiple integrals and finite series. Prerequisite: MAT 290 or its equivalent.

MAT 294 Special Topics. (1-4)*not regularly offered***MAT 300 Mathematical Structures. (3)***fall and spring*

Logic and set theory, induction, first-order languages, real numbers, and graph theory. Prerequisite: 1 semester of calculus or instructor approval.
General Studies: L

MAT 310 Introduction to Geometry. (3)*spring*

Congruence, parallel lines, area, volume, and Euclidean geometry. Prerequisite: MAT 200 or its equivalent.

MAT 342 Linear Algebra. (3)*fall and spring summer*

Linear equations, matrices, determinants, vector spaces, linear transformations, and orthogonality. Prerequisite: 2 semesters of calculus or instructor approval.

MAT 351 Mathematical Methods for Genetic Analysis. (3)*fall and spring*

Discrete mathematics, probability, and combinatorics. Prerequisite: 2 semesters of calculus or instructor approval.
General Studies: CS

MAT 362 Advanced Mathematics for Engineers and Scientists. (3)*fall, spring, summer*

Vector analysis, Fourier series, and partial differential equations. Prerequisite: MAT 222 and 242 or its equivalent.

MAT 370 Intermediate Calculus. (3)*fall and spring*

Theory of the definite integral, Taylor series, and the Riemann-Stieltjes integral. Prerequisite: MA 371 or instructor approval.

MAT 371 Advanced Calculus. (3)*fall and spring*

Real number systems, sequences, series, and the Riemann-Stieltjes integral. Prerequisite: MAT 370 or instructor approval.

MAT 372 Advanced Calculus I. (3)*spring*

Open sets, compact sets, Riemann integration, and the Riemann-Stieltjes integral. Prerequisite: MAT 460 or instructor approval.

MAT 410 Introduction to General Topology. (3)*once a year*

Topology, compactness, and connectedness. Prerequisite: MAT 371 or instructor approval.

MAT 415 Introduction to Combinatorics. (3)*fall*

Permutations, combinations, and generating functions. Prerequisite: MAT 300 or 243 and 400 or instructor approval.

MAT 416 Introduction to Graph Theory. (3)*spring*

Trees, cycles, matchings, planarity, connectivity, Hamiltonian graphs, graph coloring, and other advanced topics. Prerequisite: both MAT 300 or 243 and 342 or 242 or instructor approval.

MAT 419 Introduction to Linear Programming. (3)*spring*

Simplex method, duality, and network flows. Applications to game theory, geometry, combinatorics, graph theory, and posets. Prerequisite: a minimum of CSE 100 or 101 or 211 and MAT 300 or 243 and 342 or 242 or instructor approval.
General Studies: CS

MAT 420 Scientific Computing. (3)*fall*

Survey and application of programming languages and scientific visualization. Programming assignments emphasize software development. Lecture. Prerequisites: a combination of CSE 200 and MAT 274 and 420 or the equivalent or instructor approval.

MAT 421 Applied Computational Methods. (3)*fall and spring*

Numerical methods for quadrature, differential equations, roots of nonlinear equations, interpolation, approximation, near-equal roots, floating point arithmetic, and round-off error. Prerequisite: both MAT 271 or its equivalent and fluency in computer programming, preferably FORTRAN. Instructor approval.
General Studies: CS

MAT 423 Numerical Analysis I. (3)*fall*

Analysis and algorithms for numerical solutions near non-linear equations, direct iterative procedures, optimization, Determination of eigenvalues. Elementary computer arithmetic. Prerequisite: a combination of MA 342 and 371 and fluency in computer programming or instructor approval.
General Studies: CS

MAT 425 Numerical Analysis II. (3)*spring*

Analysis of algorithms for numerical interpolation, integration, and differentiation. Numerical solution of ordinary differential equations and methods for solving systems of ordinary differential equations. Prerequisite: a combination of MAT 342 and 371 and fluency in computer programming or instructor approval.
General Studies: S

MAT 427 Computer Arithmetic. (3)*not regularly offered*

Number systems, hardware, software arithmetic, overflow, signed and unsigned multiplication, and automatic error control. Impact of language architectures, robust programming, and software development. Prerequisite: only CSE 100 or 200 or both MAT 414 and 413 or 425 or instructor approval.
General Studies: CS

MAT 442 Advanced Linear Algebra. (3)*fall*

Fundamental linear algebra, dual spaces, invariant subspaces, normal forms, bilinear and quadratic forms, and multilinear algebra. Prerequisite: both MAT 300 and 342 or instructor approval.

MAT 443 Introduction to Abstract Algebra. (3)*fall*

Introduction to concept of abstract algebra. Not permitted students with credit for MAT 444. Prerequisite: both MAT 300 and 342 or instructor approval.

MAT 444 Intermediate Abstract Algebra. (3)*spring*

Basic theory of groups, rings, and fields, including an introduction to Galois theory. Appropriate as preparation for MAT 543. Prerequisite: MAT 443 or graduate standing or instructor approval.

MAT 445 Theory of Numbers. (3)*spring*

Primes, number theory, factorization, congruences, Diophantine equations, primitive roots, and quadratic reciprocity. Prerequisite: both MAT 300 and 342 or instructor approval.

MAT 447 Cryptography. (3)*fall and spring*

Block ciphers, stream ciphers, congruence arithmetic information theory public key cryptosystems key exchange electronic signatures
Prerequisites: MAT 242 or 342 300

MAT 451 Mathematical Modeling. (3)*spring*

Detailed study of 1 or more mathematical models that occur in the physical or biological sciences. May be repeated for credit with instructor approval. Prerequisites: MAT 242 (or 342 and 274) or on y instructor approval
General Studies CS

MAT 452 Introduction to Chaos and Nonlinear Dynamics. (3)*fall*

Properties of non-linear dynamical systems dependence on initial conditions, strange attractors, period doubling bifurcations symbolic dynamics; Smale-Birkhoff theorem and applications. MAT 371 is recommended. Prerequisites: MA 274, 342 or 242

MAT 455 Introduction to Fractals and Applications. (3)*spring*

Fractals, self-similar structures fractals with related function systems of maps computing fractals fractal dimensions chaotic dynamics on fractals, applications. MAT 371 is recommended. Prerequisites: MAT 274, 342 or 242

MAT 460 Vector Calculus. (3)*spring*

Vectors curvilinear coordinates Jacobian implicit function theorem line and surface integrals Green's Stokes' and divergence theorems. Not open to students with credit for MAT 372. Prerequisites: MAT 242 or 342 272 274.

MAT 461 Applied Complex Analysis. (3)*fall and summer*

Analytic functions complex integration Taylor and Laurent series residue theorem, conformal mapping and harmonic functions. Prerequisite: MAT 272 or its equivalent

MAT 462 Applied Partial Differential Equations. (3)*spring*

Second order partial differential equations emphasizing Laplace wave and diffusion equations. Solutions by the methods of characteristics separation of variables and integral transforms. Prerequisites: MAT 242 (or 342 274)

MAT 472 Intermediate Real Analysis. (3)*fall*

Introduction to analysis in metric spaces with emphasis on the real line. Appropriate as preparation for MAT 570. Prerequisites: MAT 300 342

MAT 475 Differential Equations. (3)*fall*

Asymptotic behavior of solutions of linear and non-linear ordinary differential equations stability Sturm-Liouville problems boundary value problems and singular point behavior of autonomous systems. Prerequisites: MAT 242 (or 342 274)

MAT 476 Partial Differential Equations. (3)*spring*

First-order quasilinear second order linear wave Laplace heat) Characteristics harmonic functions, maximum principles. Four series, separation of variables. Prerequisites: MAT 274 or 475 372 or 472.

MAT 484 Internship. (1-12)*not regularly offered***MAT 485 History of Mathematics. (3)***not regularly offered*

Topics from the history of the origin and development of mathematical ideas. Prerequisite: MAT 272 or its equivalent

MAT 505 Perturbation Methods. (3)*not regularly offered*

Nonlinear oscillations strained coordinates renormalization multi-poles boundary layers matched asymptotic expansions turning point problems and WKB method. Cross-listed as MAE 505. Credit is awarded for on y MAE 505 or MAT 505

MAT 514 Enumerative Combinatorics I. (3)*fall*

First semester of a systematic development of enumerative combinatorics including elementary counting techniques sieve methods and partially ordered sets. Prerequisite: graduate standing or instructor approval

MAT 515 Enumerative Combinatorics II. (3)*spring*

Second semester of a systematic development of enumerative combinatorics including attices exponential structures symmetric functions, and selected special topics. Prerequisite: MAT 514 or instructor approval

MAT 516 Graph Theory I. (3)*fall*

First semester of a systematic development of graph theory including matchings connectivity arboricity planarity, coloring, network flows. Prerequisite: graduate standing or instructor approval.

MAT 517 Graph Theory II. (3)*spring*

Second semester of a systematic development of graph theory including dense and sparse graphs, Ramsey theory Hamiltonicity random graphs minors. Prerequisite: MAT 516 or instructor approval

MAT 518 Combinatorial Optimization I. (3)*fall*

First semester of a systematic development of combinatorial optimization including near programming, duality primal-dual algorithms, network flow algorithms weighted matchings. Prerequisite: graduate standing or instructor approval

MAT 519 Combinatorial Optimization II. (3)*spring*

Second semester of a systematic development of combinatorial optimization including matroid algorithms theory of NP-completeness polynomial-time approximation dynamical programming. Prerequisite: MAT 518 or instructor approval

MAT 520 Numerical Linear Algebra. (3)*fall*

Direct solution of linear systems iterative methods, eigenvalues and eigenvectors singular value decomposition, the QR algorithm error propagation, arithmetic and stability. Prerequisites: both MAT 342 and 423 (or 421) or on y instructor approval

MAT 521 Iterative Methods. (3)*spring*

Numerical methods for solving linear non-linear systems of equations (symmetric nonsymmetric) iterative methods for linear systems, conjugate gradients, multigrid methods preconditioning, Krylov methods. Prerequisites: both MAT 371 and 423 (or 421) or only instructor approval

MAT 523 Numerical Optimization. (3)*not regularly offered*

Linear programming unconstrained non-linear minimization near search algorithms conjugate gradients, quasi-Newton methods constrained non-linear optimization gradient projection and penalty methods. Prerequisite: MAT 342 or 371 or 460 or 520 (or its equivalent) or instructor approval

MAT 524 Parallel Numerical Algorithms. (3)*not regularly offered*

Algorithms for massively parallel hypercube architectures; parallel FORTRAN solution of linear non-linear systems, partial differential equations iterative methods multigrid domain decomposition. Prerequisites: both MAT 371 and 423 (or 421) or only instructor approval

MAT 530 Numerical Solution of Ordinary Differential Equations. (3)*fall*

One-step near multi-step methods consistency order, stability convergence discretization round-off errors error estimation adaptive strategy implementation, software for nonlinear equations. Prerequisites: both MAT 371 and 423 (or 421) or on y instructor approval

NOTE: For the General Studies requirement courses and codes such as L, SQ, C and H see "General Studies" page 78. For graduation requirements see "University Graduation Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses" page 51.

MAT 531 Numerical Solution of Stiff Differential Systems. (3)*spring*

Runge Kutta methods, order conditions, construction of high-y stability methods, order stars, error estimation, stepsize selection, contractivity properties, near multistep methods. Prerequisites: both MAT 371 and 423 or 421 or on instructor approval.

MAT 533 Computational Elliptic and Parabolic Partial Differential Equations. (3)*fall*

Parabolic and elliptic equations, finite difference finite element methods, stability, consistency, convergence, practical aspects, applications, software. Prerequisites: both MAT 371 and 423 or 421 or on instructor approval.

MAT 534 Computational Hyperbolic Partial Differential Equations. (3)*spring*

Numerical solutions of hyperbolic PDEs, finite difference methods, well-posedness, stability, consistency, convergence, adaptive grid, Maxwell's equations, elastic wave propagation, Navier-Stokes. Prerequisites: both MAT 371 and 423 or 421 or on instructor approval.

MAT 535 Spectral Methods for Partial Differential Equations. (3)*not regularly offered*

Spectra, pseudospectra theory, Galerkin, collocation methods, Tau methods, global approximation, properties, stability, convergence, solutions for near, non-linear systems. Prerequisites: both MAT 371 and 423 or 421 or on instructor approval.

MAT 543 Abstract Algebra. (3)*fall*

Groups, modules, rings and fields. Galois theory, homomorphisms, algebra and the representation theory. Prerequisite: MAT 444 or instructor approval.

MAT 544 Abstract Algebra. (3)*spring*

Continuation of MAT 543. Prerequisite: MAT 543 or instructor approval.

MAT 551 Linear Operators and Integral Equations. (3)*spring*

Bounded linear and compact operators on Hilbert spaces, linear integral equations, Fredholm and Hilbert-Schmidt theory, and approximate methods, distributions. Prerequisites: MAT 242 and 462 or the equivalents.

MAT 555 Fractal Geometry. (3)*not regularly offered*

Geometry and analysis of fractal sets, definitions, dimensions, calculation of dimensions, projections, products of fractals, random fractals, multifractal measures, and applications. Prerequisites: MAT 371, 455, MAT 472 is recommended.

MAT 560 Dynamical Systems Methods in Fluid Dynamics. (3)*fall*

Applications of modern dynamical systems methods to fluid mechanics, bifurcations, normal forms, non-linear dynamical system format on mixing, and Lagrangian chaos. Prerequisite: graduate standing or instructor approval.

MAT 570 Real Analysis. (3)*spring*

Lebesgue integration, selected functions, spaces, differentiation, abstract measure theory, and elementary functional analysis. Prerequisite: MAT 372 or instructor approval.

MAT 571 Real Analysis. (3)*fall*

Continuation of MAT 570. Prerequisite: MAT 570 or instructor approval.

MAT 572 Complex Analysis. (3)*fall*

Analytic functions, series and product representations, entire and meromorphic functions, normal families, Riemann mapping, the Riemann-Roch theorem, and Riemann surfaces. Prerequisite: MAT 371 or instructor approval.

MAT 573 Complex Analysis. (3)*spring*

Continuation of MAT 572. Prerequisite: MAT 572 or instructor approval.

MAT 574 Theory of Ordinary Differential Equations. (3)*not regularly offered*

Systems, existence, uniqueness, asymptotic behavior, stability, boundedness, oscillations, eigenvalues, degenerate functions, and perturbation theory. Prerequisite: MAT 372 or instructor approval.

MAT 575 Theory of Ordinary Differential Equations and Dynamical Systems. (3)*not regularly offered*

Geometric approach to ODEs and dynamical systems, unstable center manifolds, structural stability, normal form, averaging, chaos, persistence. May be repeated for credit with instructor approval. Prerequisites: both MAT 452 and 455 or on MAT 574 or on instructor approval.

MAT 576 Theory of Partial Differential Equations. (3)*not regularly offered*

Existence and uniqueness, the Dirichlet problem, boundary value and initial value problems, characteristics, Green's functions, maximum principles, distributions, and weak solutions. Prerequisite: knowledge of Lebesgue integration or instructor approval.

MAT 577 Theory of Partial Differential Equations. (3)*not regularly offered*

Continuation of MAT 576. Prerequisite: MAT 576 or instructor approval.

MAT 578 Functional Analysis. (3)*not regularly offered*

Linear normed, and Hilbert spaces, linear operators, spectral theory, and application to classical analysis. Prerequisite: MAT 472 or 571 or instructor approval.

MAT 579 Functional Analysis. (3)*not regularly offered*

Continuation of MAT 578. Prerequisite: MAT 578 or instructor approval.

MAT 591 Seminar. (1-12)*not regularly offered*

Possible topics:

- a. Algebra 1-3
- b. Analysis 1-3
- c. Applied Mathematics 1-3
- d. Combinatorial Mathematics 1-3
- e. Mathematical Logic 1-3
- f. Numerical Analysis 1-3
- g. Topology 1-3

MATHEMATICS EDUCATION (MTE)**MTE 180 Theory of Elementary Mathematics. (3)***fall, spring, summer*

Number systems, intuitive geometry, elementary algebra, and measurement, intended for prospective elementary school teachers. Prerequisite: MAT 117 or its equivalent.

MTE 181 Theory of Elementary Mathematics. (3)*once a year*

Continuation of MTE 180. Prerequisite: MTE 180 or instructor approval.

MTE 380 Arithmetic in the Elementary School. (3)*once a year*

Historical, numerical systems, overview of elementary number theory, number line, prime factorization, divisibility, bases, duodecimal, near-congruence, and continued fractions. Prerequisite: MTE 181 or instructor approval.

MTE 381 Geometry in the Elementary School. (3)*not regularly offered*

Informal geometry, understanding concepts of length, area, volume, similarity, and congruence. Classification of figures, straightedge and compass constructions, and motion geometry. Prerequisite: MTE 380 or instructor approval.

MTE 482 Methods of Teaching Mathematics in Secondary School. (3)*fall*

Examine secondary school curriculum materials and analyze in their national device. Teaching strategies, evaluation, techniques, diagnosis, and remedial action and problem solving. Prerequisite: instructor approval.

MTE 483 Mathematics in the Secondary School. (3)

spring
Topics in geometry, number theory, algebra, and analysis. Emphasis on underlying principles. Prerequisite: MAT 310 or instructor approval.

MTE 484 Theory of Elementary Mathematics Internship. (3)

fall and spring
Employs hands-on activities and manipulatives to advance mathematical understanding in second- to fourth-grade students.

MTE 494 Special Topics. (1-4)

fall and spring
Passable
(a) Advanced Methods of Teaching Secondary Mathematics 3
Continuation of MTE 482. Prerequisite: MTE 482.

MTE 585 Modern Geometry for Teachers. (3)

once a year
Euclidean, projective, and non-Euclidean geometries. Prerequisite: instructor approval.

MTE 587 Analysis for Teachers. (3)

not regularly offered
Subject matter in mathematics appropriate for accelerated programs in secondary schools including analytic geometry and calculus. Prerequisite: instructor approval.

STATISTICS AND PROBABILITY (STP)**STP 220 Conceptual Statistics. (3)**

fall and spring
Treats the concepts and vocabulary needed to evaluate statistical reports on health, technology, and society. Aggressively emphasizes understanding over computation. Lecture, teamwork. Prerequisite: MAT 114 or 117 or its equivalent.
General Studies: CS

STP 226 Elements of Statistics. (3)

fall, spring, summer
Basic concepts and methods of statistical analysis including descriptive statistics, significance testing, estimation, sampling, and correlation. Not open to majors in mathematics or the physical sciences. Prerequisite: MAT 114 or 117 (or its equivalent).
General Studies: CS

STP 326 Intermediate Probability. (3)

fall and spring
Probability models and computational, joint and conditional distributions, moments, and families of distributions. Topics in stochastic processes, simulation, and statistics. Prerequisite: MAT 211 or its equivalent.
General Studies: CS

STP 420 Introductory Applied Statistics. (3)

fall, spring, summer
Introductory probability, descriptive statistics, sampling distributions, parameter estimation, tests of hypotheses, chi-square test, regression analysis, analysis of variance, and nonparametric tests. Prerequisite: MAT 117 or its equivalent.
General Studies: CS

STP 421 Probability. (3)

fall
Laws of probability, combinatorial analysis, random variables, probability distributions, expectations, moment generating functions, transformations of random variables, and central limit theorem. Prerequisites: MAT 272 and 30 and STP 420 or the equivalent.

STP 425 Stochastic Processes. (3)

spring
Markov chains, stationary distributions, pure jump processes, 2D order processes and other topics in stochastic processes. Prerequisites: MAT 342, STP 421.

STP 427 Mathematical Statistics. (3)

spring
Limiting distributions, interval estimation, point estimation, sufficient statistics, and tests of hypotheses. Prerequisites: STP 420, 421.

STP 429 Experimental Statistics. (3)

spring
Statistical inference for controlled experimentation. Multiple regressions on correlated analysis of variance, multiple comparisons, and nonparametric procedures. Prerequisite: STP 420 or its equivalent.
General Studies: CS

STP 525 Advanced Probability. (3)

not regularly offered
Measure theoretic foundations of probability distribution functions and characteristic functions, laws of large numbers and central limit theorem, conditional probabilities, martingales, and topics in stochastic processes. Prerequisites: both MAT 571 and STP 421 or ony instructor approval.

STP 526 Theory of Statistical Linear Models. (3)

fall
Multivariate distribution, distribution of quadratic forms, full and nonfull rank models, generalized inverses, unbalanced data, variance components, and the large sample theory. Prerequisites: STP 427, knowledge of matrix algebra.

STP 530 Applied Regression Analysis. (3)

fall
Method of least squares, simple and multiple linear regression, polynomial regression, analysis of residuals, dummy variables, and model building. Prerequisite: STP 420 or its equivalent.

STP 531 Applied Analysis of Variance. (3)

spring
Factorial designs, balanced and unbalanced data, fixed and random effects, randomized blocks, Latin squares, analysis of covariance, and multiple comparisons. Prerequisite: STP 420 or its equivalent.

STP 532 Applied Nonparametric Statistics. (3)

fall
One sample test, tests of 2 or more related or independent samples, measures of correlation, and tests of trend and dependence. Prerequisite: STP 420 or its equivalent.

STP 533 Applied Multivariate Analysis. (3)

spring
Discriminant analysis, principal components, factor analysis, cluster analysis, and canonical correlation. Prerequisite: STP 420 (or its equivalent).

STP 534 Applied Discrete Data Analysis. (3)

not regularly offered
Models for discrete and count data, measures of association, and log-linear and regression models for contingency tables. Prerequisite: STP 420 or its equivalent.

STP 535 Applied Sampling Methodology. (3)

spring
Simple random, stratified, cluster sampling, variance estimation in complex surveys, nonparametric superpopulation approaches, nonresponse models, computational methods. Prerequisite: STP 420 (or its equivalent).

STP 591 Seminar. (1-12)

not regularly offered
Possible topics:
a) Probability 1-3
b) Statistics 1-3

STP 593 Applied Project. (1-12)

not regularly offered

STP 599 Thesis. (1-12)

not regularly offered

Department of Microbiology

Edward A. Birge
Chair
 (LSE 210) 480/965-1457
lsvl.la.asu.edu/microbiology

PROFESSORS

BURKE HARRINGTON JACOBS, MOSSMAN SCHMIDT

ASSOCIATE PROFESSORS

BIRGE, HOFFMAN, MISRA, STOUT

ASSISTANT PROFESSORS

CHANG, GARCIA PACHEL

CLINICAL FACULTY

DOWNS, LEFEVRE MASS ROBERTS

MICROBIOLOGY—B.S.

The B.S. degree in Microbiology consists of a minimum of 41 semester hours in microbiology and approved related fields. Students majoring in Microbiology are required to take the following courses:

BIO 18 General Biology SQ	4
BIO 82 General Biology SG	4
BIO 340 General Genetics	4
Choose between the course combinations below	8
BCH 36 Principles of Biochemistry 3	
BCH 367 Elementary Biochemistry Laboratory 1	
CHM 23 Elementary Organic Chemistry SQ ¹ 3	
CHM 235 Elementary Organic Chemistry Laboratory SQ ¹ 1	
CHM 331 General Organic Chemistry 3	
CHM 332 General Organic Chemistry 3	
CHM 335 General Organic Chemistry Laboratory	
CHM 336 General Organic Chemistry Laboratory 1	
MIC 206 Microbiology Laboratory SG ²	1
MIC 220 Biology of Microorganisms	3
MIC 302 Advanced Bacteriology Laboratory L ³	2
MIC 360 Bacterial Physiology	3
MIC 401 Research Paper L ³	1
Total	30

¹ Both CHM 231 and 235 must be taken to secure SQ credit

² Both MIC 206 and 206 must be taken to secure SG credit

³ Both MIC 302 and 401 must be taken to secure L credit

A minimum of 11 semester hours of upper division electives in microbiology or approved related fields must be taken

These elective hours must include two courses chosen from the following:

MIC 421 Experimental Immunology	2
MIC 446 Techniques in Molecular Biology Genetics Lab	4
MIC 470 Bacterial Diversity and Systematics	4
MIC 494 ST Clinical Bacteriology Laboratory	3
MIC 495 Undergraduate Research	2

In addition, students are required to fulfill the university mathematical studies requirements with MAT 210 or 270,

290, or 294) as their MA course and BIO 420 (or any CSE course that meets the CS requirement). The required supplemental courses are as follows:

CHM 13 General Chemistry SQ	4
CHM 115 General Chemistry with Qualitative Analysis SQ	5
PHY 1 General Physics SQ*	3
PHY 12 General Physics SQ	3
PHY 113 General Physics Laboratory SQ	1
PHY 14 General Physics Laboratory SQ	1
Total	17

* Both PHY 111 and 113 or PHY 112 and 114 must be taken to secure SQ credit.

CLINICAL LABORATORY SCIENCES—B.S.

The goal of the Clinical Laboratory Sciences degree program is to prepare individuals to practice in the field of clinical laboratory sciences, which includes the major disciplines of clinical chemistry, hematology, immunohematology, immunology, and microbiology. Employment opportunities exist in hospital, private, physician, and research laboratories and in government, sales, management, and education. After obtaining a B.S. degree in Clinical Laboratory Sciences, the graduate is eligible for national certification by examination.

A student majoring in Clinical Laboratory Sciences is required to take 40 hours of clinical laboratory sciences courses. Also required are the following courses:

BCH 361 Principles of Biochemistry	3
BIO 36 Animal Physiology	4
CHM 113 General Chemistry SQ	4
CHM 231 Elementary Organic Chemistry SQ	3
MIC 205 Microbiology SG ²	3
or MIC 220 Biology of Microorganisms 3	
MIC 236 Microbiology Laboratory SG ²	1
Total	18

Both CHM 231 and 235 must be taken to secure SQ credit

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

Equivalent courses may be substituted upon approval of an advisor. Students must consult with the clinical laboratory sciences advisor to select general electives courses. Completion of the degree is dependent upon acceptance of the student into the accredited professional study program, which consists of 40 hours of clinical laboratory sciences courses. The university does not guarantee all students to be accepted into the professional study program due to space limitations at the clinical affiliates and restrictions of program accreditation. For more information on acceptance procedures and program standards, contact the department for a program brochure. For proper course planning, students must meet with a clinical laboratory sciences advisor.

MINOR IN MICROBIOLOGY

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

BIO 151 General Biology SQ	4
BIO 152 General Biology SG	4
BIO 340 General Genetics	4
MIC 206 Microbiology Laboratory SG	1
MIC 220 Biology of Microorganisms	3

MIC 302 Advanced Bacteriology Laboratory L 2
 MIC 360 Bacterial Physiology
 Total 2

Both MIC 25 and 206 must be taken to secure SG credit
 2 Both MIC 302 and 401 must be taken to secure credit

The remaining upper division microbiology courses are chosen in consultation with an advisor. Students enrolling in Biology may not minor in Microbiology.

GRADUATE PROGRAMS

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

The department participates in the interdisciplinary program for the M.S. and Ph.D. degrees in Molecular and Cellular Biology. See the *Graduate Catalog* for courses, faculty, and program information, or call 450-965-1743 for more information.

**CLINICAL LABORATORY SCIENCES/
 MEDICAL TECHNOLOGY (CLS)**

CLS 100 Introduction to Clinical Laboratory Sciences. (1)
fall

Introduction to the field of clinical laboratory science. Required for Clinical Laboratory Sciences majors.

CLS 310 Principles of Clinical Chemistry I. (6)
spring

Theory and application of principles of clinical chemistry with emphasis on laboratory techniques, pathophysiology, methods, analysis, and assessment. Procedure 3 hours, lecture 9 hours. Lab Fee. Prerequisite: admission to the Clinical Laboratory Science profession study program.

CLS 320 Principles of Clinical Microbiology I. (6)
spring

Theory and application of principles of clinical microbiology with emphasis on isolation and identification of many gram positive and gram negative bacteria. 3 hours lecture, 9 hours lab. Fee. Prerequisite: admission to the Clinical Laboratory Sciences profession study program.

CLS 330 Principles of Clinical Hematology/Body Fluids. (3)
fall

Theory and application of principles of hematology with laboratory techniques to evaluate blood disorders and analyze body fluids. 2 hours lecture, 3 hours lab. Prerequisite: admission to the Clinical Laboratory Science profession study program.

CLS 410 Principles of Clinical Chemistry II. (2)
summer

Continuation of CLS 310 with emphasis on principles of advanced clinical chemistry. 1 hour lecture, 3 hours lab. Prerequisite: admission to the Clinical Laboratory Sciences profession study program.

CLS 411 Advanced Applications of Clinical Chemistry. (4)
fall

Clinical application of the laboratory techniques from CLS 410 and 411. Emphasis on operation of common laboratory instrumentation and clinical correlation. Minimum 18 hours practical. Prerequisite: admission to the Clinical Laboratory Sciences profession study program.

CLS 420 Principles of Microbiology II. (2)
summer

Disease mechanism and identification of medically significant parasites, Mycobacteria, Actinomycetes, Chlamydia, Rickettsia, Mycoplasma, and viruses. 1 hour lecture, 3 hours lab. Prerequisite: admission to the Clinical Laboratory Sciences profession study program.

CLS 421 Advanced Applications of Clinical Microbiology. (4)
spring

Practical application of the principles of clinical microbiology to processing and identification of antimicrobial agents. Identification of significant bacteria, fungi, and parasites. Minimum 18 hours practical. Prerequisite: admission to the Clinical Laboratory Science profession study program.

CLS 430 Principles of Clinical Hematology I/Hemostasis. (3)
fall

Theory and application of principles of hematology with emphasis on etiology, pathophysiology, clinical manifestations, and treatment of hemodynamic disorders. 2 hours lecture, 3 hours lab. Prerequisite: admission to the Clinical Laboratory Sciences profession study program.

CLS 431 Advanced Applications of Clinical Hematology. (4)
spring

Practical application of clinical hematology to evaluate and diagnose hemodynamic disorders. 10 hours practical. Prerequisite: admission to the Clinical Laboratory Science profession study program.

CLS 440 Principles of Clinical Immunology/Immunohematology. (4)
fall

Theoretical and practical application of immunology and immunohematology. Emphasis on serology, transfusion medicine, and blood donor selection. 3 hours lab. Prerequisite: admission to the Clinical Laboratory Science profession study program.

CLS 441 Advanced Applications of Clinical Immunology/Immunohematology. (3)
spring

Practical application of the principles of serology, clinical immunology, and transfusion medicine. 135 hours practical. Prerequisite: admission to the Clinical Laboratory Science profession study program.

CLS 450 Principles of Clinical Laboratory Administration. (2)
fall and spring

Principles of management with emphasis on the clinical laboratory. Business management, personnel supervision, identification, accreditation of services. Prerequisite: admission to the Clinical Laboratory Sciences profession study program.
General Studies credit so earned in CLS 46

CLS 460 Principles of Clinical Laboratory Education. (1)
spring

Principles of learning with participation in the development of instructional materials, strategies, and evaluation for teaching learning student in the laboratory. Prerequisite: admission to the Clinical Laboratory Science profession study program.
General Studies credit so earned in CLS 45

MICROBIOLOGY (MIC)

MIC 205 Microbiology. (3)
fall, spring, summer

Bacterial, eukaryotic, and viral microbiology. 181 emphasis on general principles of microbiology, health care, and epidemiology. Minimum 18 hours practical. Prerequisite: admission to the Clinical Laboratory Sciences profession study program.
General Studies credit so earned in MIC 26

MIC 206 Microbiology Laboratory. (1)
fall, spring, summer

Principles and laboratory techniques used in identifying and identifying microorganisms. 3 hours lab. Fee. Prerequisite: MIC 205 or 220.
General Studies credit so earned in MIC 205

MIC 220 Biology of Microorganisms. (3)
fall and spring

Basic course for students with credit in Biology 81. Detailed study of microorganisms, their structure, genetics, physiology, and taxonomy. Prerequisite: Biology 115.

NOTE: For the General Studies requirement, consult the syllabus for LSC and Health Sciences page 77 for graduation requirement, see University Graduation Requirements page 74. For an expanded list of dual admission courses, see the dual admission course list on page 51.

MIC 302 Advanced Bacteriology Laboratory. (2)*fa and spring*

Advanced laboratory techniques in bacterial growth, physiology, genetics and microscopy. Required of Microbiology majors. 4 hours lab. Fee. Prerequisites: completion of General Studies L requirement and either A or B. A: M C 206 and 220. B: MIC 205 and 206 and instructor approval.

*General Studies L. If credited as earned in M C 401***MIC 360 Bacterial Physiology. (3)***fa and spring*

Mechanisms and control of cellular metabolic structures and function. Prerequisite: M C 220. Pre- or corequisite: BCH 361 or instructor approval.

MIC 380 Medical Parasitology. (3)*fa*

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

MIC 381 Pathogenic Microbes. (3)*spring*

Host-microbial 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)*fa spring summer*

Paper of 15 or more pages based on library or laboratory research in a laboratory with a faculty member. Required of all Microbiology majors. Prerequisites: M C 302 completion of General Studies L requirement.

*General Studies L. If credited as earned in M C 302***MIC 420 Immunology: Molecular and Cellular Foundations. (3)***fa*

Molecular and cellular foundations of immunology. Antigen-antigen interactions, cellular response, cytokines, immunogenetics, immunoregulation, autoimmunity, psychoneuroimmunology research, medical perspectives. Prerequisites: both CHM 231 or 331 and M C 205 or 220 or only instructor approval.

MIC 421 Experimental Immunology. (2)*fa and spring*

Introduction to the basic techniques, methods, and assays used in immunology. 6 hours lab. Fee. Prerequisites: a combination of CHM 231 and 331 and M C 302 or only instructor approval.

MIC 425 Advanced Immunology. (3)*spring, n odd years*

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

MIC 441 Bacterial Genetics. (3)*spring*

Survey of genetic exchange and regulatory processes in bacteria and the viruses. Bacteria and viruses as tools in genetic engineering. Prerequisites: both BIO 340 and M C 205 or 220 or only instructor approval.

MIC 442 Bacterial Genetics Laboratory. (1)*not regularly offered*

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

MIC 445 Techniques in Molecular Biology/Genetics. (2)*fa and spring*

Molecular genetic principles: plasmid construction, purification, and characterization; PCR, mutagenesis, hybridization, and sequence analysis; protein quantitation; immunology; detection and electrophoresis. Cross-listed as MBB 445. Credit awarded for only MBB 445 or M C 445. Prerequisites: both BIO 340 and M C 302 or only instructor approval.

MIC 446 Techniques in Molecular Biology/Genetics Lab. (2)*fa and spring*

Molecular genetic techniques: plasmid construction, purification, and characterization; PCR, mutagenesis, hybridization, and sequence analysis; protein quantitation; immunology; detection and electrophoresis. Cross-listed as MBB 446. Credit awarded for only MBB 446 or M C 446. Pre- or corequisite: MBB 445 or M C 445.

MIC 470 Bacterial Diversity and Systematics. (4)*fa*

Biology classfication and enrichment culture of the nonpathogenic bacteria. 2 hours lecture, 6 hours lab. Fee. Prerequisite: M C 302.

MIC 485 General Virology. (3)*fa*

Fundamental nature of viruses, their replication, pathogenesis, and ecology. Prerequisites: both BIO 340 and CHM 331 or only instructor approval.

MIC 486 General Virology Laboratory. (2)*not regularly offered*

Fundamental of virus detection, isolation, and assay; propagation of viruses in mammalian cell culture, recombinant viruses and vector construction. 6 hours lab. Prerequisite: M C 302. Pre- or corequisite: M C 485.

MIC 494 Special Topics. (1-4)*not regularly offered*

Possible topics:

a. Clinical Bacteriology Laboratory 3

MIC 495 Undergraduate Research. (1-6)*fa spring summer*

Supervised research in microbiology. May be repeated for credit. Lab. Prerequisites: M C 206, 220, 302. Instructor approval.

MIC 527 Neuroimmunology. (3)*spring, n odd years*

Studies in the influence of immunology and the immune systems influence on the mind, neuroimmunology, diseases, and the neuroimmunology. A curriculum involved. Seminars. Prerequisite: M C 420 or instructor approval.

MIC 581 Molecular Mechanism of Pathogenesis. (3)*not regularly offered*

Pathogenic mechanism and host responses in viral and bacterial diseases. Prerequisites: both M C 381 and 420 or only instructor approval.

MIC 585 Molecular Virology. (3)*not regularly offered*

Selected topics concerning molecular aspects of eukaryotic virus replication and pathogenesis. Prerequisite: instructor approval.

MIC 591 Seminar. (1-12)*fa and spring*

Possible topics:

a. Bacteria Ecology 1-3

b. Current Research in Microbiology 1-3

c. Enzymology 1-3

(d) Genetic Engineering 1-3

e. Genetics 1-3

f. Immunology 1-3

g. Molecular Virology 1-3

h. Neuroimmunology 1-3

(i) Pathogenic Bacteriology 1-3

Department of Military Science

Army ROTC

Lt. Col. Scott Crawford

Chair

(TCB 104) 480/965-3318

www.asu.edu/clas/military

PROFESSORS

CRAWFORD, DALGLEISH, WALLER

ASSISTANT PROFESSORS

FISCHER, ROLLINS, ROMESBURG, RUDOLPH

INSTRUCTOR

RINGENOLDUS

CLINICAL ASSOCIATE PROFESSOR

COX

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 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, secrecy, 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 analogy, 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.

tion for assigned credit toward General Studies, social science, and global awareness requirements for graduation (See "Classification of Courses," page 51, 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, or 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.

NOTE: For the General Studies requirement courses and codes (such as L, SQ, C, and H see General Studies' page 78. For graduation requirements see University Graduation Requirements' page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses' page 51.

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 the 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 950 on SAT or 19 on ACT.
- 3. passing the Army physical examination
- 4. each evening and maintain the minimum cumulative GPA required for graduation in the student's selected major but not less than 2.0.
- 5. attainment of at least junior class standing at
- 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 \$150 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 \$300 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 US Army. These scholarships are awarded in varying amounts for tuition. In addition, the scholarship pays \$1500 per month subsistence allowance at \$225 per 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 national wide basis. Scholarships are also available for three and two year period commitments with the sophomore and junior years of ROTC respectively. Applications are open to all students of 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 in length 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 college active duty for up to four years is available to outstanding students who desire to continue graduate or professional studies. See regulations 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.

MILITARY SCIENCE (MIS)

MIS 101 Introduction to the Military. (3)

fa
Overview of mission, organization and structure of the Army and its role in national defense. Discusses current military issues. Hours: 3 hours lecture, 2 hours lab.

MIS 102 Land Navigation, First Aid, and Survival. (3)

spr g
Introduction to military maps and land navigation and first aid and survival techniques. Includes outdoor survival. 3 hours lecture, 2 hours lab.

MIS 201 American Military History. (3)

fa
Studies the role of the military in American federal government from the pre-revolutionary period to the present day. Hours: 2 hours lecture, 2 hours lab.

MIS 202 Introduction to Leadership Dynamics. (3)

spr ng
Introduction to interpersonal dynamics involved in military team efforts. The role of the military leadership principles. 3 hours lecture, 2 hours lab.

MIS 205 ROTC Basic Camp. (4)

summer
6 week training program for a 21 day field exercise and leadership development. Take up of MIS 1110221202. Conducted at Fort Knox, Kentucky.

MIS 301 Advanced Military Science. (3)

fa
Theory and dynamics of individual and military units in offensive combat patterns. 2 hours lecture, 1.5 hours of Leadership Practica Application 1 day field exercise 31 day field exercises. Prerequisites: MIS 101 and 12021 and 2021. The requirements Corequisite: EPE 105 Physical Education Activity Army Master Fitness.

MIS 302 Advanced Military Science II. (3)

spring
Theory and dynamics of military units in defensive combat operations. 2 hours lecture, 1.5 hours of Leadership Practica Application 1.3 day field exercise 21 day field exercises. Prerequisites: MIS 111 and 102 and 21022 or prerequisite Corequisite: PE 105 Physical Education Activity Army Master Fitness.

MIS 303 ROTC Advanced Camp. (4)

summer

6-week training program emphasizing leadership development and advanced military skills, including tactics, and navigation and physical training. Conducted at Fort Lewis, Washington. Prerequisites: MIS 301, 302

MIS 401 Advanced Military Science III. (3)

fall

Military organization; preparation and conduct of military training; leadership development ethics and professionalism of the military officer. 3 hours lecture, conference, 2 hours Leadership Practica Application. 1 2-day field exercise, 3 1 day field exercises. Prerequisites: MIS 301, 302. Corequisite: EPE 105 Physical Education Activity Army Master Fitness.

MIS 402 Advanced Military Science IV. (3)

spring

Military correspondence, career planning and personal affairs; 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)

fall

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

MIS 412 American Defense Policy II. (3)

spring

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

MIS 414 Comparative Defense Policy Analysis. (3)

fall

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/C.I.S. Foreign and Defense Policies. (3)

spring

Analysis of foreign and security policies of the Soviet Union, C.I.S. and of the successor states to the Warsaw Pact. *General Studies SB*

MIS 499 Individualized Instruction: National Defense Analysis. (1-3)

not regularly offered

For more information, contact the director or see the *Graduate Catalog*.

MOLECULAR AND CELLULAR BIOLOGY (MCB)

See the *Graduate Catalog* for the MCB courses.

Molecular Biosciences and Biotechnology

J. Kenneth Hooper

Chair

**Department of Plant Biology
(LSE 218) 480/965-3414**

Edward A. Birge

Codirector

**Department of Microbiology
(LSE 210) 480/965-1457**

lifesciences.asu.edu/mbb

MOLECULAR BIOSCIENCES AND BIOTECHNOLOGY—B.S.

The interdepartmental B.S. degree in Molecular Biosciences and Biotechnology is designed to prepare students for productive careers in rapidly expanding areas within the life sciences, such as biotechnology, medicine, and biomedical research or any area of biology at the molecular and cellular level. Courses and faculty are drawn primarily from the Departments of Plant Biology and Microbiology, with additional participation by the Departments of Biology and Chemistry and Biochemistry.

General Program

The B.S. degree program consists of approximately 55 semester hours of course work in required courses plus two courses in mathematics specifically designed for this program. The required major courses (22 total semester hours) are as follows:

MBB 245 Cellular and Molecular Biology SQ	3
MBB 246 Cellular and Molecular Biology Laboratory	1
MBB 343 Genetic Engineering and Society	4
MBB 484 Internship	6
or MBB 499 Individualized Instruction	6
MBB 490 Capstone: Issues in Biotechnology	4
MIC 206 Microbiology Laboratory SG*	1
MIC 220 Biology of Microorganisms	3
Total	22

* Both MIC 205 and 206 must be taken for SG credit

Choose two or more of the following courses (or combinations) for a total of 8 to 16 semester hours:

BIO 340 General Genetics	4
BIO 353 Cell Biology	3

Molecular and Cellular Biology

Bertram L. Jacobs

Director, Interdisciplinary Committee

(LSE 411) 480/965-0743

lsvl.la.asu.edu/mcb

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.

NOTE: For the General Studies requirement courses and codes such as L, SQ, C, and H, see General Studies page 78. For graduation requirements, see University Graduation Requirements page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see Classification of Courses page 51.

BIO 494 ST: Cell Biotechnology.....	4
MBB 350 Applied Genetics.....	4
MBB 445 Techniques in Molecular Biology/Genetics.....	2
MBB 446 Techniques in Molecular Biology/Genetics Lab ¹	2
MIC 420 Immunology: Molecular and Cellular Foundations.....	3
MIC 421 Experimental Immunology ²	2
Total.....	8-16

¹ MBB 446 is taken with 445.

² MIC 421 is taken with 420.

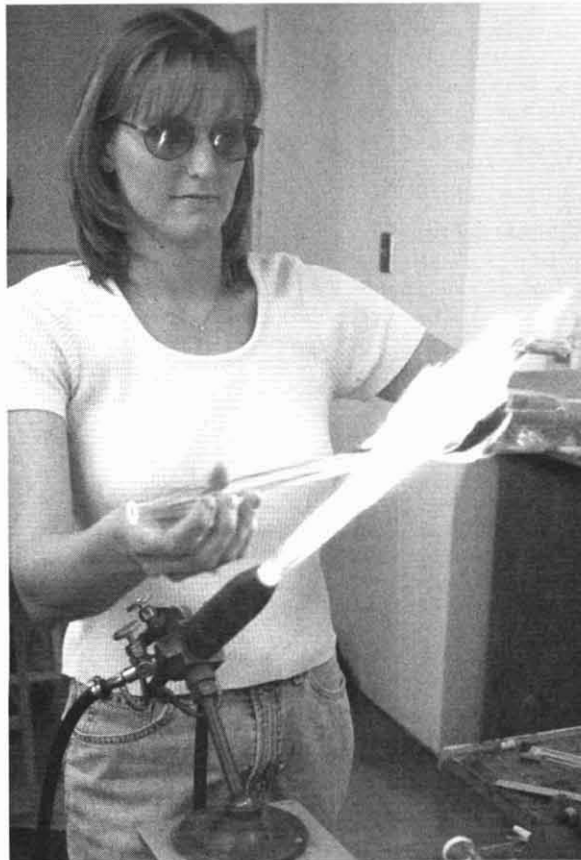
Required supplemental courses in biology, chemistry, and physics (25 total semester hours) are as follows:

BCH 361 Principles of Biochemistry.....	3
BCH 367 Elementary Biochemistry Laboratory.....	1
CHM 113 General Chemistry SQ.....	4
CHM 115 General Chemistry with Qualitative Analysis SQ.....	5
CHM 231 Elementary Organic Chemistry SQ ¹	3
CHM 235 Elementary Organic Chemistry Laboratory SQ ¹	1
PHY 111 General Physics SQ ²	3
PHY 112 General Physics SQ ³	3
PHY 113 General Physics Laboratory SQ ²	1
PHY 114 General Physics Laboratory SQ ³	1
Total.....	25

¹ Both CHM 231 and 235 must be taken to secure SQ credit.

² Both PHY 111 and 113 must be taken to secure SQ credit.

³ Both PHY 112 and 114 must be taken to secure SQ credit.



ASU staff member Christi Roger creates glassware for use in chemistry classes.

Tim Trumble photo

Courses that satisfy university mathematical studies requirements are as follows (six total semester hours):

MAT 251 Calculus for Life Sciences MA.....	3
MAT 351 Mathematical Methods for Genetic Analysis CS.....	3
Total.....	6

Additional courses are available in the life or physical sciences for elective credit.

MOLECULAR BIOSCIENCES/BIOTECHNOLOGY (MBB)

MBB 245 Cellular and Molecular Biology. (3)

fall and spring

Concepts that underlie relationships between cellular and subcellular structure and function, and integration of major metabolic and genetic processes. Prerequisite: Life Science major or preprofessional student in health-related sciences.

General Studies: SQ (if credit also earned in MBB 246)

MBB 246 Cellular and Molecular Biology Laboratory. (1)

fall and spring

Experiments that illustrate relationships between structure, function, and genetic processes at the cellular and molecular level. Laboratory. Prerequisite: MBB 245.

General Studies: SQ (if credit also earned in MBB 245)

MBB 343 Genetic Engineering and Society. (4)

fall

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 allowed for only BIO 343 or MBB 343. Prerequisites: preferably both MBB 245 and 246 or only BIO 181 (or its equivalent).

General Studies: L

MBB 350 Applied Genetics. (4)

spring

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. Cross-listed as PLB 350. Credit is allowed for only MBB 350 or PLB 350. Prerequisites: preferably both MBB 245 and 246 or only BIO 181 (or its equivalent).

MBB 445 Techniques in Molecular Biology/Genetics. (2)

fall and spring

Molecular genetic principles: plasmid construction, purification, and characterization; PCR; mutagenesis; hybridization and sequence analysis; protein quantitation; immunologic detection, and electrophoresis. Cross-listed as MIC 445. Credit is allowed for only MBB 445 or MIC 445. Prerequisites: both BIO 340 and MIC 302 or only instructor approval.

MBB 446 Techniques in Molecular Biology/Genetics Lab. (2)

fall and spring

Molecular genetic techniques; plasmid construction, purification, and characterization; PCR; mutagenesis; hybridization and sequence analysis; protein quantitation; immunologic detection and electrophoresis. Cross-listed as MIC 446. Credit is allowed for only MBB 446 or MIC 446. Pre- or corequisite: MBB 445 or MIC 445.

MBB 484 Internship. (3)

not regularly offered

MBB 490 Capstone: Issues in Biotechnology. (2)

fall and spring

Integration of science and humanities within problem-solving exercises dealing with intellectual property, ethics, regulatory issues, business practices, and commercialization. Prerequisite: Molecular Biosciences/Biotechnology major or instructor approval.

MBB 499 Individualized Instruction. (3)

not regularly offered

Department of Philosophy

Brad Armendt
Chair
(PS A524) 480/965-3394
www.asu.edu/clas/philosophy

REGENTS' PROFESSOR MURPHY

PROFESSORS
COHEN CREATH, F TCH, FRENCH, HUMPHREY,
MAIENSCHIN WHITE

ASSOCIATE PROFESSORS
ARMENDT BLACKSON, de MARNEFFE, GULESERIAN,
KOBES, MCGREGOR, REYNOLDS

ASSISTANT PROFESSORS
DEVLIN, MASON

LECTURER
BOLTON

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 semester hours may be in related fields as approved by the undergraduate advisor. Required courses are as follows:

PHI 300 Philosophical Argument and Exposition L	3
PHI 301 History of Ancient Philosophy HU H	3
PHI 302 History of Modern Philosophy HU, H...	3
PHI 335 Ethical Theory HU	3
or PHI 335 History of Ethics HU 3	
PHI 312 Theory of Knowledge HU	3
or PHI 314 Philosophy of Science HU 3	
PHI 316 Metaphysics HU	3
or PHI 317 Philosophy of Mind HU 3	
PHI 333 Introduction to Symbolic Logic	3
Choose two courses below	6
PHI 401 Rationalism 3	
PHI 402 Empiricism HU (3)	
PHI 403 Contemporary Analytic Philosophy HU (3)	
PHI 413 Advanced Symbolic Logic 3	
PHI 420 Topics in Philosophy (3)	
PHI 494 Special Topics (3)	
Total	27

Exceptions by special permission of the chair only. PHI 420 may be repeated for credit.

Students planning to do graduate work in philosophy should consult with 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 319.

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."

CERTIFICATE IN ETHICS

The Ethics Certificate consists of 18 semester hours approved by an advisor in the department. The student must take PHI 305 or 335. At least 15 hours must be chosen from PHI 105, 304, 305, 306, 307, 309, 310, 335, and (when its topic is within ethics) PHI 420. One course outside this list, and perhaps outside the department, may be used with written approval from the Director of Undergraduate Studies. All courses must be passed with a minimum grade of "C."

CERTIFICATE IN HISTORY AND PHILOSOPHY OF SCIENCE

The History and Philosophy of Science Certificate consists of 18 semester hours, of which at least 12 must be in the upper division and approved by an advisor in the department. At least nine semester hours must be HPS, and three semester hours must be PHI 314 Philosophy of Science. 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. and Ph.D. degrees. See the *Graduate Catalog* for requirements.

HISTORY AND PHILOSOPHY OF SCIENCE (HPS)

HPS 311 Origins, Evolution, and Creation. (3)

not regularly offered

Examines scientific mythic, and religious ideas relating to origins (particularly human) place of ant evolutionism and "scientific creationism" in American culture. Lecture/discussion. Cross-listed as BO 344 HUM 371 REL 383. Credit is allowed for only BO 344 or HPS 311 or HUM 371 or REL 383.

HPS 322 History of Science. (3)

once a year

Development and application of scientific thinking from ancient times through the 17th century.
General Studies HU, H

HPS 323 History of Science. (3)

not regularly offered

Development and application of scientific thinking from the 18th century to the present.
General Studies HU, H

HPS 325 Chinese Science and Medicine. (3)

not regularly offered

Explore development of Chinese traditions dealing with the natural world, science, and medicine. Lecture/discussion. Cross-listed as HST 385. Credit is allowed for only HPS 325 or HST 385.
General Studies HU, G, H

NOTE: For the General Studies requirement, courses and codes such as L, SQ, C, and H, see General Studies page 78. For graduation requirements, see "University Graduation Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 51.

HPS 330 History of Biology: Conflicts and Controversies. (3)*not regularly offered*

Focuses on the 19th and 20th centuries considering biology as a discipline. Evolutionary problems of heredity development and cell theory. Cross-listed as B O 316. Credit is awarded for only B O 316 or HPS 330.

*General Studies H***HPS 331 History of Medicine. (3)***once a year*

Scientific study of the human body concerning the residues of disease evolution of practical operations on treatment and the emerging institution of a profession of medical practice. Cross-listed as B O 318. Credit is awarded for only B O 318 or HPS 331.

*General Studies H***HPS 332 The Darwinian Revolution (3)***not regularly offered*

Intellectual and cultural history of Darwinism and modern evolutionary theory and the impact on 19th and 20th century thought. Lecture/discussion. Cross-listed as B O 346 HUM 372. Credit is awarded for only B O 346 or HPS 332 or HUM 372.

HPS 402 Technology, Society, and Human Values. (3)*once a year*

Values that motivate humankind to create technology. A case of conflict and resolution of conflict between values and technology. Reading and discussions with visiting lecturer. Prerequisite: junior or standing.

HPS 410 Professional Values in Science. (3)*once a year*

Considers issues related to values in science such as collaboration, finances, ethical issues, media, mentoring, ownership of ideas, scientific integrity. Discussion on student projects. Cross-listed as B O 416. Credit is awarded for only B O 416 or HPS 410.

*General Studies L***PHILOSOPHY (PHI)****PHI 101 Introduction to Philosophy. (3)***fall, spring, summer*

Explores issues that philosophers have traditionally considered including morality, reality and knowledge.

*General Studies HU***PHI 103 Principles of Sound Reasoning. (3)***fall, spring, summer*

Familiarizes with validity and soundness of arguments. May include study of basic elementary symbolic deductive logic and scientific method. Prerequisite: ENG 101 or 105.

*General Studies L/HU***PHI 105 Introduction to Ethics. (3)***once a year*

Philosophical examination of such questions as, How should we live? Is morality a social invention? Does anything matter?

*General Studies HU***PHI 300 Philosophical Argument and Exposition. (3)***spring*

Develops techniques of philosophical argument and exposition. Frequent written exercises. Course content may vary with instructor. Prerequisites: major or instructor approval.

*General Studies L***PHI 301 History of Ancient Philosophy. (3)***fall*

History of Western philosophy from its beginning through the Hellenistic period.

*General Studies HU H***PHI 302 History of Modern Philosophy. (3)***spring*

History of Western philosophy from the Renaissance through Kant.

*General Studies HU H***PHI 304 Existentialism. (3)***not regularly offered*

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)***once a year*

Concerns the relationship about the nature of morality, metaethics and about what is right and wrong, normative ethics. Prerequisite: PH 105 or 306 or 307 or 309 or 335 or instructor approval.

*General Studies HU***PHI 306 Applied Ethics. (3)***fall, spring, summer*

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)***once a year*

Nature and source of law and its relationship to morality, legal rights, legal enforcement of moral civil obedience, liberty and responsibility, punishment, judicial reasoning, justice, property and difference between theories of natural and positive law.

*General Studies HU***PHI 308 Philosophy of Art. (3)***once a year*

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 reality of art criticism.

*General Studies HU***PHI 309 Social and Political Philosophy. (3)***once a year*

Alternative principles and methods relevant to problems of human association and conflict, discusses justice and power, freedom and equality and autonomy and order. Prerequisite: PH 105 or 305 or 335 or instructor approval.

*General Studies HU***PHI 310 Environmental Ethics. (3)***once a year*

Examines a full range of philosophical positions pertaining to our moral relationship to the natural world, anthropocentrism, dividualism, biocentrism.

*General Studies HU***PHI 311 Philosophy in Literature. (3)***once a year*

Selected works of literature and philosophical problems such as the nature of moral goodness and people's relationship to the world and other people.

*General Studies HU***PHI 312 Theory of Knowledge. (3)***once a year*

Nature, sources and limits of human knowledge. Topics may include truth, a priori knowledge, empirical knowledge, perception, induction and skepticism. Prerequisite: PH 101 or 103 or 300 or 301 or 302 or 333.

*General Studies HU***PHI 314 Philosophy of Science. (3)***once a year*

Structure and justification of scientific theories, explanation and theory change, roles of observation and laws, theoretical concepts and entities, reduction, probability confirmation, space and time and causation.

*General Studies H***PHI 315 Philosophy of Language. (3)***once a year*

Problems pertaining to the nature of language, including meaning, reference, truth, definition, analyticity, translativity, synonymy and conditions of contemporary linguistics. Prerequisite: PH 103 or 300 or 333.

*General Studies HU***PHI 316 Metaphysics. (3)***once a year*

Problems pertaining to the nature of reality. Topics may include nature of persons, minds, substance, universal, space, time, causation, and modality. Prerequisite: PH 101 or 103 or 300 or 301 or 333.

General Studies H

PHI 317 Philosophy of Mind. (3)*once a year*

Nature of consciousness. General view of mind, behavior, matter, mental and physical functions, self-knowledge and knowledge of other minds. Prerequisite: PH 101 or 133 or 301 or 321 or 333

*General Studies HU***PHI 318 Philosophy of Religion. (3)***once a year*

Classical arguments for the existence of God. Argument from evil against the existence of God. Justification of religious belief.

*General Studies HU***PHI 319 Philosophy of Computing. (3)***not regularly offered*

Philosophical problems surrounding the theory of computation. Turing machines, mind and Artificial Intelligence, computing ethics and epistemology of computing. Lecture and discussion.

*General Studies CS HU***PHI 325 Philosophy of Social Science. (3)***not regularly offered*

Philosophical problems surrounding the aims, structure, and methods of the social sciences.

*General Studies HU SB***PHI 332 19th Century Philosophy. (3)***not regularly offered*

History of 19th century philosophy. Philosophical thought emphasized either the German or the British traditions. Prerequisite: PHI 321

*General Studies HU***PHI 333 Introduction to Symbolic Logic. (3)***once a year*

Symbolic techniques emphasizing deductive and propositional and first-order predicate calculus.

PHI 335 History of Ethics (3)*once a year*

Major works of moral philosophy by ancient and modern authors as those by Plato, Aristotle, Hobbes, Hume, Kant, and Mill. Prerequisite: PH 101 or 105 or 305 or 306 or 307 or 309 or instructor approval.

*General Studies HU***PHI 401 Rationalism. (3)***not regularly offered*

Examines classical philosophical rationalism, as in Descartes, Spinoza, Malebranche or Leibniz. Contemporary rationalist thought may also be examined. Prerequisite: PH 302 and 305 or 309 or 312 or 316 or 317

PHI 402 Empiricism. (3)*not regularly offered*

Examines representative features of contemporary philosophy of empirical science, e.g. Bacon, Hume, Locke, Butler, Berkeley, Reid, Hume, Mill, Carnap, and Ayer. Prerequisites: PH 302 and 305 or 309 or 312 or 316 or 317

*General Studies HU***PHI 403 Contemporary Analytic Philosophy. (3)***once a year*

Aims and methods of 20th century philosophy. Frege, Moore, Russell, Wittgenstein, Carnap, Ayer, Wisdom, Ryle, Austin, Strawson, Quine, and Sellars with application to metaphysics and epistemology. Prerequisites: PH 302 and 312 or 314 or 316 or 317 or 401 or 421

*General Studies HU***PHI 413 Advanced Symbolic Logic. (3)***not regularly offered*

Propositional and first-order predicate logic. May also include modal logic, number theory, and mathematical logic. Prerequisite: PH 333

PHI 420 Topics in Philosophy. (3)*once a year*

Corequisite: enrollment in department. May be repeated for credit. Possible topics:

- a. History of Philosophy
- b. Metaphysics, Epistemology
- c. Philosophy of Language
- d. Philosophy of Science
- e. Value Theory

Prerequisite: one relevant upper division PHI course or instructor approval.

PHI 494 Special Topics. (3)*not regularly offered***PHI 590 Reading and Conference (1-12)***not regularly offered***PHI 591 Seminar (1-12)***once a year*

Possible topics:

- a. Aesthetics 1-3
- b. Epistemology 1-3
- Ethics 1-3
- d. History of Philosophy 1-3
- e. Logic 1-3
- f. Metaphysics 1-3
- g. Philosophy of Language 3
- h. Philosophy of Law 1-3
- Philosophy of Science 1-3
- Social and Political Philosophy 1-3

PHI 592 Research. (1-15)*not regularly offered***PHI 599 Thesis (1-12)***fall and spring***PHI 790 Reading and Conference. (1-12)***not regularly offered***PHI 792 Research. (1-15)***not regularly offered***PHI 799 Dissertation. (1-15)***not regularly offered*

NOTE: For the General Studies requirement courses and credits such as L, SQ, C and H see General Studies page 7. For graduation requirements see University Graduation Requirements page 74. For an explanation of additional non-student courses offered but not listed in this catalog see Classification of Courses page 51.

Department of Physics and Astronomy

Barry G. Ritchie
Chair
 (PS F470) 480/965-3561
 phy.asu.edu

REGENTS' PROFESSORS

SMITH SPENCE

PROFESSORS

ALARCON BAUER BENNETT, BURSTEIN CHAMBERLIN
 COMFORT, COWLEY DOAK DOW HESTER, JACOB,
 KAUFMANN LINDSAY MENENDEZ PAGE, PONCE, REZ
 RTOCHIE SANKEY, SCHE NFE N SCHMIDT STARRFELD
 TILLERY, TSEN TSONG VENABLES
 WINDHORST, WYCKOFF

ASSOCIATE PROFESSORS

AANNESTAD, ACHARYA BEN N CULBERTSON,
 DRUCKER HERBOTS MARZKE

ASSISTANT PROFESSOR

LEBED

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 following combinations below	4
PHY 151 Physics I SQ 4	
PHY 121 University Physics I: Mechanics SQ 3	
PHY 122 University Physics Laboratory I SQ 1	
Choose between the following combinations below	4
PHY 151 Physics II SQ 4	
PHY 131 University Physics II: Electricity and Magnetism SQ 3	
PHY 132 University Physics Laboratory II SQ 1	
PHY 201 Mathematical Methods in Physics	3
PHY 252 Physics III SQ	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
PHY 465 Advanced Laboratory II	2
Total	45

Both PHY 121 and 122 must be taken to secure SQ credit
 Both PHY 131 and 132 must be taken to secure SQ credit

Supporting mathematics courses are as follows:

Choose between the course combinations below 12 or 10
 MAT 271 Calculus with Analytic Geometry I MA 4
 MAT 271 Calculus with Analytic Geometry II MA 4
 MAT 272 Calculus with Analytic Geometry III MA 4

MAT 291 Calculus I MA 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 following combinations below	4
PHY 151 Physics I SQ 4	
PHY 201 University Physics I: Mechanics SQ 3	
PHY 202 University Physics Laboratory I SQ 1	
Choose between the following combinations below	4
PHY 151 Physics II SQ 4	
PHY 131 University Physics I: Electricity and Magnetism SQ 3	
PHY 132 University Physics Laboratory II SQ 1	
PHY 201 Mathematical Methods in Physics I	3
PHY 252 Physics III SQ	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	44

Both PHY 121 and 122 must be taken to secure SQ credit
 Both PHY 131 and 132 must be taken to secure SQ 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 10
 MAT 270 Calculus with Analytic Geometry I MA 4
 MAT 271 Calculus with Analytic Geometry II MA 4
 MAT 272 Calculus with Analytic Geometry III MA 4

MAT 291 Calculus I MA 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 SQ ¹	3
AST 322 Introduction to Galactic and Extragalactic Astrophysics SQ ²	3
AST 421 Astrophysics I	3
AST 422 Astrophysics II	3
AST 499 Individualized Instruction	3
Total	15

- ¹ Both AST 113 and 321 must be taken to secure SQ credit.
- ² Both AST 114 and 322 must be taken to secure SQ 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 SQ	1
AST 114 Astronomy Laboratory II SQ	1
AST 321 Introduction to Planetary and Stellar Astrophysics SQ	3
AST 322 Introduction to Galactic and Extragalactic Astrophysics SQ	3
Choose between the course combinations below	4
PHY 150 Physics I SQ (4)	
PHY 121 University Physics I Mechanics SQ ³ (3)	
PHY 122 University Physics Laboratory I SQ ³ (1)	
Choose between the course combinations below	4
PHY 151 Physics II SQ (4)	
PHY 131 University Physics II Electricity and Magnetism SQ ⁴ (3)	
PHY 132 University Physics Laboratory II SQ ⁴ (1)	
PHY 252 Physics III SQ	4
Approved upper division electives	4
Total	24

- ¹ Both AST 113 and 321 must be taken to secure SQ credit.
- ² Both AST 114 and 322 must be taken to secure SQ credit.
- ³ Both PHY 121 and 122 must be taken to secure SQ credit.
- ⁴ Both PHY 131 and 132 must be taken to secure SQ 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 SQ (4)	
PHY 121 University Physics I Mechanics SQ ¹ (3)	
PHY 122 University Physics Laboratory I SQ ¹ (1)	
Choose between the course combinations below	4
PHY 151 Physics II SQ (4)	
PHY 131 University Physics II Electricity and Magnetism SQ ² (3)	
PHY 132 University Physics Laboratory II SQ ² (1)	
PHY 252 Physics III SQ	4
Approved upper division electives	4
Total	29

NOTE: For the General Studies requirement, courses and codes such as L, SQ, C, and H see "General Studies" page 78. For graduation requirements see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses" page 51.

PHY 131 University Physics II: Electricity and Magnetism SQ ² (3)	
PHY 132 University Physics Laboratory II SQ ² (1)	
PHY 201 Mathematical Methods in Physics I	3
PHY 252 Physics III SQ	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 elective	3
Total	29

- ¹ Both PHY 121 and 122 must be taken to secure SQ credit.
- ² Both PHY 131 and 132 must be taken to secure SQ 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 SQ ¹ (4)	
PHY 121 University Physics I Mechanics SQ ² (3)	
PHY 122 University Physics Laboratory I SQ ² (1)	
Choose between the course combinations below	4
PHY 151 Physics II SQ (4)	
PHY 131 University Physics II Electricity and Magnetism SQ ³ (3)	
PHY 132 University Physics Laboratory II SQ ³ (1)	
PHY 201 Mathematical Methods in Physics	3
PHY 252 Physics III SQ	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)	
PHY 480 Methods of Teaching Physics	3
or PHY 484 Internship: Physics Teaching I-4	10
Approved electives	10
Total	42

- ¹ PHY 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 SQ credit.
- ³ Both PHY 131 and 132 must be taken to secure SQ 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," page 347) or mathematics (see "Minor in Mathematics," page 404). The physics portion of this program requires the following courses:

Choose between the course combination below	4
PHY 15 Physics I SQ 4	
PHY 21 University Physics I: Mechanics SQ 3	
PHY 22 University Physics Laboratory I SQ 1	
Choose between the course combination below	4
PHY 25 Physics II SQ 4	
PHY 33 University Physics II: Electricity and Magnetism SQ 3	
PHY 132 University Physics Laboratory I SQ	
PHY 23 Mathematical Methods in Physics 4	3
PHY 252 Physics III Q	4
PHY 302 Mathematical Methods in Physics I	2
PHY 303 Classical Particles, Fields and Matter	3
PHY 311 Classical Particles, Fields and Matter II	3
PHY 355 Electrodynamics and Measurements	3
PHY 361 Introductory Modern Physics	2
or PHY 34 Quantum Physics I 3	
PHY 45 Methods of Teaching Physics	3
or PHY 454 Internship: Physics Teacher 4	
Total	32

- ¹ PHY 15, 112, 113 and 114 requirements may be substituted for PHY 150, 151, and 252 on approval of the advisor
- ² Both PHY 121 and 22 must be taken to secure SQ credit
- ³ Both PHY 131 and 132 must be taken to secure SQ credit
- ⁴ Physics Mathematics MA 274 plus MAT 342 may be substituted for PHY 21
- ⁵ Physics Chemistry CHM 45 may be substituted for PHY 48

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

Choose between the combination of	4
PHY 15 Physics I SQ 4	
PHY 21 University Physics I: Mechanics SQ 3	
PHY 122 University Physics Laboratory I SQ 1	
Choose between the course combination below	4
PHY 25 Physics II SQ 4	
PHY 33 University Physics II: Electricity and Magnetism SQ 3	
PHY 132 University Physics Laboratory I SQ 1	
PHY 23 Mathematical Methods in Physics I	3
PHY 252 Physics III SQ 4	4
PHY 304 Quantum Physics I	3
or PHY 361 Introductory Modern Physics 3	
PHY 45 Methods of Teaching Physics	
or PHY 454 Internship: Physics Teacher 4	
Approved electives	3
Total	24

- PHY 15, 122, and 304 may be substituted for PHY 150, 151, and 252 requirements, on approval of the advisor
- ² Both PHY 121 and 22 must be taken to secure SQ credit
- Both PHY 131 and 32 must be taken to secure SQ credit

The remaining 10 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 of the Department of Physics and Astronomy offer programs leading to the degrees of Master of Natural

Science M.S. and Ph.D. See the *Graduate Catalog* for requirements.

ASTRONOMY (AST)

- AST 111 Introduction to Solar Systems Astronomy. (3)**
fall
to prepare telescope instruments study of our system and nearby stars For non-science majors Optional lab AST 113.
General Studies SQ credit also earned in AS 113
- AST 112 Introduction to Stars, Galaxies, and Cosmology. (3)**
spring
Structure and evolution of stars galaxies cosmology For non-science majors Optional lab AST 114
General Studies SQ credit also earned in AS 114
- AST 113 Astronomy Laboratory I (1)**
fall
Astronomy observations and experiments designed to help the student become familiar with the sky telescope and astrometry measurements 2.5 hours a week Pre-requisites AST 111 or 321 a working knowledge of high school algebra and geometry
General Studies SQ credit also earned in AST 111 or 321
- AST 114 Astronomy Laboratory II. (1)**
spring
Similar to AST 113 but material chosen to supplement AST 112 and 322 2.5 hours a week Pre-requisites AS 112 or 322 a working knowledge of high school algebra and geometry
General Studies SQ credit also earned in AS 112 or 322
- AST 321 Introduction to Planetary and Stellar Astrophysics. (3)**
fall
Physical laws relating to planets and stars the sun and other stars formation and evolution of star and planetary systems Prerequisites MA 70 or 29 PHY 15
General Studies SQ credit also earned in AS 113
- AST 322 Introduction to Galactic and Extragalactic Astrophysics. (3)**
spring
Evolved stars introduction to galaxy structure and dynamics of galaxies cosmology Prerequisite AST 321 instructor approval
General Studies SQ credit also earned in AS 114
- AST 421 Astrophysics I. (3)**
fall
Selected astrophysical topics including stellar evolution star formation interstellar medium galaxy structure extragalactic astronomy high energy astrophysics and cosmology Prerequisites AST 321 322 PHY 311 314
- AST 422 Astrophysics II. (3)**
spring
Same range of astrophysical topics as for AST 421 but different special topics are emphasized a given year Prerequisites AST 321 322 PHY 11 314
- AST 499 Individualized Instruction (3)**
interim/regular/field
- AST 598 Special Topics. (1-4)**
interim/regular/field
Possible topics:
a) Astronomy Data Taking and Data Reduction
b) Cosmology and High Energy Astrophysics
c) Extragalactic Astronomy
d) Galactic Structure
e) Interstellar Medium and Gaseous Astronomy
f) Stellar Interior and Stellar Evolution

PHYSICAL SCIENCES (PHS)

- PHS 110 Fundamentals of Physical Science (4)**
fall and spring
One semester survey of the principles of physics and chemistry Prerequisite: grade of elementary algebra 3 hours lecture hours lab
General Studies SQ

PHS 208 Patterns in Nature. (4)*fa and spring*

Project oriented science course with computer training to develop critical thinking and technical skills for student oriented science lessons
K 12 Lecture Lab Cross listed as STE 208 Credits allowed for PHS 208 or STE 208 Prerequisite: college level certificate or instructor approval
General Studies SQ

PHS 484 Physics Science Internship. (3)*fa and spring*

Apprenticeship concepts discussed and demonstrated in PHS 208 to teach middle school students Hands on experiences the focus of the teaching

PHS 505 Energy and the Environment. (3)*summer*

Current problems in energy resources, production consumption and conservation Student Prerequisite: instructor approval

PHS 510 Inquiry Physical Science I. (3)*summer*

Inquiry approach to physical science standards-based intended for elementary school teachers Topics selected kinematics dynamics electricity, magnetism astronomy Student Prerequisite: instructor approval

PHS 520 Inquiry Physical Science II. (3)*summer*

Inquiry approach to physics and astronomy standards based intended for middle school teachers Emphasizes technology and modeling Student Prerequisite: instructor approval

PHS 530 Methods of Physics Teaching I. (3)*summer*

Inquiry approach to high school physics teaching Student Prerequisite: instructor approval

PHS 531 Methods of Physics Teaching II. (3)*summer*

Extension of modeling techniques introduced in PHY 580 Student Prerequisite: PHS 530 or instructor approval

PHS 534 Methods of Teaching Physical Science I, II, III. (3)*summer*

Design of curriculum and conduct of instruction for physical science courses Student Prerequisite: instructor approval

PHS 540 Integrated Physics and Chemistry. (3)*summer*

Collaborative inquiry methods for teaching and coordinating physics and chemistry Student Prerequisite: CHM 48 or PHS 53 or PHY 480 or instructor approval

PHS 542 Integrated Mathematics and Physics (3)*summer*

Mathematical models and modeling as an integrating theme for secondary mathematics and physics Student Prerequisite: instructor approval

PHS 550 Physics and Astronomy. (3)*summer*

Astronomy curriculum and projects for secondary school with emphasis on the role of physics in astronomy Student Prerequisite: instructor approval

PHS 556 Astrophysics. (3)*summer*

Structure and evolution of stars galaxies and the universe For secondary school teachers Student Prerequisite: instructor approval

PHS 560 Matter and Light (3)*summer*

Interactions of light with matter Laser and spectroscopy Student Prerequisite: instructor approval

PHS 564 Light and Electron Optics. (3)*summer*

Principles and practice of electron optical instruments Student Prerequisite: instructor approval

PHS 570 Spacetime Physics. (3)*summer*

Special and general theories of relativity with implications for space and time travel Student Prerequisite: instructor approval

PHY 581 Structure of Matter and Its Properties. (3)*summer*

Models of matter and its properties Student Prerequisite: instructor approval

PHYSICS (PHY)**PHY 101 Introduction to Physics. (4)***fa and spring*

Emphasize application of physics to life in the modern world Previews understanding of elementary algebra 3 hours lecture, 1 recitation on 2 hours lab
General Studies SQ

PHY 105 Basic Physics. (3)*fa*

One semester survey of the principles of physics Primary 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)*fa spring summer*

Noncalculus treatment of the principles of physics for nonphysics majors Students whose curriculum require a laboratory course must also register for PHY 113 3 hours lecture 1 recitation Prerequisite: trigonometry

*General Studies SQ f credit a so earned n PHY 113***PHY 112 General Physics. (3)***fa spring summer*

Continuation of PHY 111 Students whose curriculum require a laboratory course must also register for PHY 114. Prerequisite: PHY 111
General Studies SQ f credit a so earned n PHY 114

PHY 113 General Physics Laboratory. (1)*fa spring summer*

Elementary experiments in physics 2 hours lab Requires outside preparation for experiment and report writing May be taken concurrently with or subsequent to, PHY 111

*General Studies SQ f credit a so earned n PHY 111***PHY 114 General Physics Laboratory. (1)***fa, spring, summer*

See PHY 113 May be taken concurrently with or subsequent to PHY 112

*General Studies SQ f credit a so earned n PHY 11***PHY 121 University Physics I: Mechanics. (3)***fa spring summer*

Kinematics Newton's laws work energy momentum, conservation dynamics of particles solids and fluids 3 hours lecture 1 hour recitation Prerequisite: MA 270 290 or instructor approval
General Studies SQ f credit a so earned n PHY 122

PHY 122 University Physics Laboratory I. (1)*fa spring summer*

Laboratory accompanying PHY 121 Prerequisite: PHY 121
General Studies SQ f credit a so earned n PHY 121

PHY 131 University Physics II: Electricity and Magnetism. (3)*fa spring summer*

Electric charge and current electric and magnetic fields in vacuum and in materials induction AC circuits displacement current and electromagnetic waves 4 hour lecture 1 hour recitation Prerequisites: MA 71 291 or instructor approval PHY 121 C requirement MAT 272 or instructor approval
General Studies SQ f credit a so earned n PHY 132

PHY 132 University Physics Laboratory I (1)*spring and summer*

Laboratory accompanying PHY 131 Prerequisite: PHY 131
General Studies SQ f credit a so earned n PHY 131

PHY 150 Physics I. (4)*spring*

Introductory physics for majors Kinematics, Newton's Laws, basic forces energy momentum special relativity 3 hours lecture 3 hours lab Prerequisite: MAT 70 or 290 or equivalent
General Studies SQ

NOTE: For the General Studies requirement courses and credits see L SQ and Hee Gea Studies' page 8 For graduation requirements see University Graduation Requirements, page 74 For an explanation of additional non-business courses listed but not listed in this catalog see Classification of Courses page 51

PHY 151 Physics II. (4)*fa*

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 its equivalent), PHY 121, 122, or 150.

*General Studies SQ***PHY 190 Seminar: Physics as a Curriculum and a Profession. (1)***fa and spring*

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)*spring*

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

PHY 241 University Physics III. (3)*fa I and spring*

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)*spring*

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

*General Studies SQ***PHY 302 Mathematical Methods in Physics II. (2)***fa*

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 its equivalent).

PHY 310 Classical Particles, Fields, and Matter I. (3)*fa I*

Particle kinematics, mechanics, conservation laws, particle motion, force fields, dynamics of two-body systems, reference frames, rigid body motion, relativity. Corequisites: both PHY 302 and 314 (or on your instructor's approval).

PHY 311 Classical Particles, Fields, and Matter II. (3)*spring*

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

PHY 314 Quantum Physics I. (3)*fa*

Photons, modes of the atom, wave properties of matter, introduction to wave mechanics, 1-dimensional systems, quantum mechanics. Prerequisites: PHY 201 and 252 (or their equivalents). Corequisites: both PHY 302 and 310 (or on your instructor's approval).

PHY 315 Quantum Physics II. (3)*spring*

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 on your instructor's approval).

PHY 333 Electronic Circuits and Measurements. (3)*fa I and spring*

Basic principles of electron circuit analysis and measurement techniques using modern instrumentation and computer-aided analysis of data. 1 hour lecture, 3 hours lab. Required equipment effort outside of lab. Corequisite: PHY 201 (or on your instructor's approval).

PHY 334 Advanced Laboratory I. (2)*spring*

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

PHY 361 Introductory Modern Physics. (3)*fa I and spring*

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

PHY 412 Classical Particles, Fields, and Matter III. (3)*fa I*

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

PHY 416 Quantum Physics III. (3)*fall*

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

PHY 420 Research Paper. (1)*fa and spring*

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

*General Studies L***PHY 441 Statistical and Thermal Physics I. (3)***fa I*

Statistical and experimental basis of heat, temperature, and entropy. Mechanical 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)*spring*

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)*fa*

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

PHY 462 Nuclear and Particle Physics. (3)*spring*

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

PHY 465 Advanced Laboratory II. (2)*fa I and spring*

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)*fa I and spring*

Continuation of PHY 465. Prerequisite: PHY 465.

PHY 480 Methods of Teaching Physics. (3)*spring*

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)*spring*

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)*fa, spring, summer*

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)*fa and spring*

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

PHY 498 Pro Seminar. (1-7)*not regularly offered*

- PHY 501 Methods of Theoretical Physics. (3)**
fa and spring
 Provides mathematical foundations for graduate students in basic and applied physics. Complex vector spaces, operators, matrices, differential equations and transformations, and special functions. May include additional topics.
- PHY 502 Methods of Theoretical Physics. (3)**
fa and spring
 Continuation of PHY 501. Prerequisite: PHY 501.
- PHY 521 Classical Mechanics. (3)**
fa
 Verbal principles, Lagrangian and Hamilton's equations, rigid body motion, canonical transformations, Hamilton-Jacobi theory.
- PHY 523 Relativity. (3)**
not regularly offered
 Special and general theories of relativity. Prerequisite: PHY 532 or instructor approval.
- PHY 531 Advanced Electricity and Magnetism. (3)**
fa
 Electrostatics and magnetostatics; potential theory and continuity equations; Maxwell's equations; the wave equation; plane electromagnetic waves; cavities, and waveguides.
- PHY 532 Electrodynamics. (3)**
spring
 Special theory of relativity; covariant formulation of electromagnetic interactions; inhomogeneous wave equations; Leonard-Wheeler potentials; and radiation effects, interactions of charged particles and electromagnetic waves; scattering, dispersion. Prerequisites: both PHY 412 and 531 or instructor approval.
- PHY 541 Statistical Physics. (3)**
fall
 Probabilistic theory and principles of statistical mechanics, evaluation of experimental data; foundations of statistical mechanics; general aspects of thermodynamics from microscopic theories, calculation of specific properties of bulk matter.
- PHY 551 X-ray and Electron Diffraction. (3)**
spring
 Fresnel and Fraunhofer diffraction; integrated formalism; diffraction of X-rays and neutrons by crystal lattices; structures of solids including crystal structure analysis; the theory and techniques of electron microscopy; diffraction of crystals; noncrystalline specimens. Prerequisite: PHY 481 or instructor approval.
- PHY 561 Nuclear Physics. (3)**
fa and spring
 Two-nucleon interaction, absorption, Gordan coefficients, intermediate forces; meson theory and high-energy scattering; nuclear binding energy; nuclear models; transition probabilities; nuclear reactions and beta decay. Prerequisite: PHY 576 or instructor approval.
- PHY 562 Nuclear Physics. (3)**
fa and spring
 Continuation of PHY 561. Prerequisite: PHY 561 or instructor approval.
- PHY 568 Elementary Particle Physics. (3)**
not regularly offered
 Classification of particles; phenomenology of strong, electromagnetic and weak interactions; cross sections and decay rates; spin and helicity symmetries; structure of reaction amplitudes. Prerequisite: PHY 577.
- PHY 569 Elementary Particle Theory. (3)**
not regularly offered
 Continuation of PHY 568. Prerequisite: PHY 568.
- PHY 571 Quantum Physics. (3)**
spring
 Reviews modern physics: chemistry, math. Differentiate equation, operator matrix formalism; free particle bound-state problems. Examines many differential equations and transformations.
- PHY 576 Quantum Theory. (3)**
fa and spring
 Abstract approach to quantum mechanics in Hilbert space; observables and their corresponding operators, eigenstates, and general quantum dynamics; approximation methods; systems of identical particles; angular momentum and group representation on theory of processes; relativistic quantum theory. Prerequisite: PHY 521.
- PHY 577 Quantum Theory. (3)**
fa and spring
 Continuation of PHY 576. Prerequisite: PHY 576.
- PHY 578 Relativistic Quantum Theory. (3)**
fa and spring
 Relativistic particle equations; Klein-Gordon equation, Dirac equation on 2D quantization, theory of scattering, S-matrix, Feynman diagrams; quantum electrodynamics, and renormalization procedures.
- PHY 579 Relativistic Quantum Theory. (3)**
fa and spring
 Continuation of PHY 578. Prerequisite: PHY 578.
- PHY 580 Practicum. (1-12)**
not regularly offered
 PHY 581 Solid-State Physics. (3)
- PHY 581 Solid-State Physics. (3)**
fa
 Quantum theory of solids including phonons; lattice specific heats; band structure; Fermi surfaces; thermal expansion; phonon interactions; scattering by lattice defects. Prerequisite: PHY 576.
- PHY 582 Solid-State Physics. (3)**
spring
 Elements of transport theory; thermal conduction; electron conduction in metals; mobility in semiconductors; Hall effect; magnetoresistance; and selected topics of current research. Prerequisite: PHY 581.
- PHY 587 Quantum Optics. (3)**
fa and spring
 Quantization of the electromagnetic field; Quantum theory of coherent atoms; Raman scattering. Prerequisite: PHY 576.
- PHY 588 Quantum Optics. (3)**
fa and spring
 Continuation of PHY 587. Prerequisite: PHY 587.
- PHY 592 Research. (1-12)**
not regularly offered
 PHY 598 Special Topics. (1-4)
fa and spring
 Possible topics: Quantum Mechanics (3)
- PHY 599 Thesis. (1-12)**
spring
 b) Quantum Physics (3)

NOTE: For the General Studies requirement courses and codes such as L, SQ, C, and H, see General Studies page 78. For graduation requirements see University Graduation Requirements page 74. For an explanation of additional courses offered but not listed in this catalog, see "Classification of Courses" page 51.

Department of Plant Biology

J. Kenneth Hooper
Chair
 (LSE 218 480/965-3414
 lifesciences.asu.edu/plantbiology

PROFESSORS

ARNTZEN, BACKHAUS, FRASCH HOOBER, KLOPATEK
 NASH SOMMERFELD TRELEASE, VERMAAS WEBBER

ASSOCIATE PROFESSORS

BRIGGS, CLARK DAY, MARTIN, PIGG RAMAKR SHNA
 ROBERSON, STROMBERG STUTZ SZAREK TOWELL

ASSISTANT PROFESSOR

RHOADS

RESEARCH PROFESSOR

WINCOV

ASSISTANT RESEARCH PROFESSORS

JOSH MOR

ASSOCIATE RESEARCH SCIENTISTS

BINGHAM, LOBRUTTO

ASSOCIATE RESEARCH SPECIALIST

SHARP

HERBARIUM CURATOR

LANDRUM

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, plant biochemistry and molecular biology, 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.

The Department of Plant Biology, in cooperation with the Department of Microbiology, administers the newly developed B.S. degree program in Molecular Biosciences/Biotechnology. This major is for students interested in molecular and cellular biology and its application to biotechnology. For more information about this area of study, see "Molecular Biosciences and Biotechnology," page 417.

General Program

The B.S. degree in Plant Biology consists of a minimum of 38 semester hours in plant biology and approved related fields.

PLB 101 Biology of Plant SQ	3
PLB 201 Biology of Plants Laboratory SQ	1
PLB 306 Plant Anatomy	4
PLB 305 Plant Physiology	4
BIO 321 Environmental Botany	3
or BIO 304 General Genetics 4	
BIO 353 Cell Biology	3
PLB 454 Plant Physiology	3
or PLB 499 Individualized Instruction 3	
total	22

Both PLB 101 and 201 must be taken to secure SQ credit

Additional life or physical science elective courses, total minimum 15 to 20 semester hours, are also required

Required supplemental courses in chemistry are as follows:

CHM 103 General Chemistry SQ	4
CHM 115 General Chemistry with Qualitative Analysis SQ	5
CHM 225 General Organic Chemistry course	
concentrations below	4 or 8
CHM 225 General Organic Chemistry SQ 3	
CHM 235 Fundamental Organic Chemistry Laboratory SQ 1	
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 225 and 235 must be taken to secure SQ credit

Courses meeting the university mathematical studies requirement are as follows:

MAT 25 Calculus for Life Sciences MA	3
PLB 433 Statistical Analyses in Environmental Science CS	3
or PLB 437 Computer Applications in Biology CS 3	
or BIO 455 Biometry CS 4	

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 a minimum of 44 semester hours in plant biology and approved related fields.

The required major courses are as follows:

BIO 327 Fundamental Ecology	3
CHM 225 between the general chemistry binomials below	4
GLG 101 Introduction to General Physical SQ 3	
GLG 103 Introduction to Cell Biology Laboratory SQ 1	
GLG 110 Environmental Cell Biology SQ 3	
GLC 111 Environmental Biology Laboratory SQ 1	
GLC 307 General Biology	3
or GLG 477 Herpetology 3	
PLB 101 Biology of Plants SQ	3
PLB 201 Biology of Plants Laboratory SQ	1

PLB 310 The Flora of Arizona	4
PLB 322 Environmental Science Major	3
PLB 421 Plant Ecology, Origins and Populations or PLB 422 Plant Ecology, Community and Ecosystems	3
PLB 484 Internship or PLB 499 Individualized Instruction	3
Total	7

- Both GLG 111 and 112 must be taken to secure SQ credit
- ² Both GLG 110 and 111 must be taken to secure SG credit
- ³ Both PLB 200 and 201 must be taken to secure SQ credit

Required supplemental courses in biology and chemistry are as follows:

CHM 113 General Chemistry SQ	4
CHM 115 General Chemistry with Qualitative Analysis SQ	5
CHM 231 Elementary Organic Chemistry SQ	3
CHM 235 Elementary Organic Chemistry Laboratory SQ	1
Total	3

* Both CHM 231 and 235 must be taken to secure SQ credit. Additional life or physical science elective courses totaling 16 semester hours are also required.

Courses meeting the university non-mathematical studies requirement are as follows:

MAT 251 Calculus for Life Sciences MA	3
PLB 450 Statistical Analysis in Environmental Science CS or PLB 452 Computer Applications in Biology CS	3

Plant Biochemistry and Molecular Biology. The B.S. degree in Plant Biology concentrating in biochemistry and molecular biology consists of 56 semester hours.

The required major courses are as follows:

BIO 553 Cell Biology	3
PLB 308 Plant Physiology	4
PLB 353 Applied Genetics	4
PLB 444 Plant Growth and Development	3
PLB 484 Internship or PLB 499 Individualized Instruction	3
Total	17

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

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

Choose between the course combinations below	4 or 9
BCH 361 Principles of Biochemistry	3
BCH 367 Fundamental Biochemistry Laboratory	1
BCH 461 General Biochemistry	3
BCH 462 General Biochemistry	3
BCH 467 Analytical Biochemistry Laboratory L	3
CHM 113 General Chemistry SQ	4
CHM 115 General Chemistry with Qualitative Analysis SQ	5
CHM 231 Elementary Organic Chemistry SQ ¹	3
CHM 235 Elementary Organic Chemistry Laboratory SQ	1
MBB 245 Cellular and Molecular Biology SQ ²	3
MBB 246 Cellular and Molecular Biology Laboratory SQ	1
PHY 113 General Physics SQ	3

NOTE. For the General Studies requirement courses and credits such as L, SQ, C and H see General Studies page 78. For graduation requirements see University Graduation Requirement page 74. For an explanation of additional majors courses offered but not listed in this catalog see Classification of Courses page 51.

PHY 113 General Physics Laboratory I SQ	1
Total	3 or 3

- ¹ Both CHM 231 and 235 must be taken to secure SQ credit
- Both MBB 245 and 246 must be taken to secure SQ credit
- Both PHY 113 and 113 must be taken to secure SQ credit

Courses meeting the university non-mathematical studies requirement are as follows:

BIO 406 Computer Applications in Biology CS	3
MAT 251 Calculus for Life Science MA	3
MAT 251 Mathematical Methods for Genetic Analysis CS	3

Urban Horticulture. The B.S. degree in Plant Biology concentrating in urban horticulture consists of a minimum of 46 semester hours in plant biology and approved related fields.

PLB 306 Plant Anatomy or PLB 308 Plant Physiology or BIO 72 Fundamentals of Ecology	4
PLB 202 Biology of Plants SQ ¹	3
PLB 211 Biology of Plants Laboratory SQ	3
PLB 266 Plants in Cities: Introduction to Urban Horticulture SQ	4
PLB 367 Landscape Plants	3
PLB 364 Urban Forestry	3
PLB 366 Interiorscape or PLB 372 Turf Management or PLB 472 Greenhouse/Nursery Management	3
PLB 357 Environmental Landscape Management	3
PLB 414 Plant Pathology L	3
PLB 484 Internship	3
PLB 498 PS Urban Horticulture	1

Total 30-31

Both PLB 202 and 201 must be taken to secure SQ credit

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

CHM 113 Introductory Chemistry SQ	4
CHM 115 Elementary Organic Chemistry SQ	3
CHM 235 Elementary Organic Chemistry Laboratory SQ ¹	1
Choose between the course combination below	4
ERS 250 Introduction to Environmental Science SQ	4
ERS 255 Soils	3
ERS 266 Soil Laboratory I	1
Total	12

Both CHM 231 and 235 must be taken to secure SQ credit. Additional elective courses from other disciplines totaling seven to eight semester hours are also required. A total of 54 semester hours are required for this curriculum option.

Courses meeting the university non-mathematical studies requirement are as follows:

PLB 430 Statistical Analyses in Environmental Science CS	3
or PLB 432 Computer Application in Biology CS 3	
or BIO 415 Biometry CS 4	
MAT 251 Calculus for Life Sciences WA	3
Total	6-7

PLANT BIOLOGY MINOR

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

PLB 200 Biology of Plants SQ*	3
PLB 201 Biology of Plants Laboratory SQ*	
PLB 306 Plant Anatomy	4
or PLB 305 Plant Physiology 4	
or PLB 311 The Flora of Arizona 4)	
Total	8

* Both PLB 200 and 201 must be taken to secure SQ credit.

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. The department participates in the interdisciplinary program for 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)

fa spring summer

Introduction to concepts of plant biology that are of human relevance using commercial, medicinal, and medicinal plants as examples. Not for majors in the biological sciences. 3 hours lecture 3 hours lab Fee

General Studies SQ

PLB 200 Biology of Plants. (3)

fa and spring

Analyzes the structure function interaction for plant cells and tissues and properties that emerge in whole plants. Prerequisites: high school biology and chemistry

General Studies SQ 1 credit also earned in PLB 201

PLB 201 Biology of Plants Laboratory. (1)

fa and spring

Laboratory experiments to teach techniques and protocols of the scientific process reinforces concepts from lecture by asking questions and solving problems. Lab Prerequisites: high school biology and chemistry

General Studies SQ 1 credit also earned in PLB 200

PLB 300 Comparative Plant Diversity. (4)

fa

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 Fee Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent

General Studies L/SG

PLB 302 Plants and Civilization. (3)

fa

Plants and plant products used by people throughout the world. Culture, evolution, processing, and uses in modern life: beverages, fibers, foods, medicine, and perfumes. Prerequisites: preferably both PLB 200 and 201 or 108 or on y B O 182 or its equivalent.

PLB 304 Biology of Algae and Fungi. (3)

spring

Ecology, economics, and evolutionary diversity of the algae and fungi. Traditional and modern biotechnology. 2 hours lecture 3 hours lab Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent

PLB 305 Desert Annuals and Cacti. (3)

fa

Adaptive biology of desert plants. Analysis of diverse traits permitting survival in deserts: reproduction, structure, and physiology. Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent

PLB 306 Plant Anatomy. (4)

fa I

Development and mature structure of tissues of vascular plants: pattern and modification of the leaf, stem, root, and flower. 3 hours lecture, 3 hours lab Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent

PLB 308 Plant Physiology. (4)

spring

Concepts of plant function: carbon metabolism, energy acquisition, regulation of growth and development, stress responses, and water and nutrient uptake. Fee Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent CHM 101 or 115 or 231

PLB 310 The Flora of Arizona. (4)

spring

Principles of taxonomy, identification of Arizona plants. 2 hours lecture, 6 hours lab Fee Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent

PLB 400 Lichenology. (3)

spring in odd years

Chemistry, ecology, physiology, and taxonomy of lichens. 2 hours lecture, 3 hours lab Prerequisites: preferably both PLB 200 and 201 or on y B O 182 (or its equivalent)

PLB 402 Mycology. (3)

spring

Fungal morphology and systematics with an introduction to fungicide biology, ecology, economic significance, and growth and development. 2 hours lecture 3 hours lab Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent or on y M C 206

PLB 404 Phycology. (4)

spring

Algae: both fresh water and marine forms, emphasizing field collection and identification of local representatives. Morphology, ecology, economic aspects of the algae. 3 hours lecture 3 hours lab Fee Prerequisites: preferably both PLB 200 and 201 or on y B O 182 (or its equivalent)

PLB 407 Plant Fossils and Evolution. (4)

spring in odd years

Broad survey of plant life of the past including the structure of plant fossils, the geographic ranges, geographic distribution, and paleoenvironment. 3 hours lecture 3 hours lab or field trip Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent

PLB 410 Angiosperm Taxonomy. (3)

spring

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

PLB 411 Trees and Shrubs of Arizona. (3)

fa

Identification of woody plants from desert, chaparral, and forest habitats. Arizona. 1 hour lecture, 3 hours lab or field trips Prerequisites: preferably both PLB 200 and 201 or on y B O 182 or its equivalent or on y instructor approval

PLB 412 Cytogenetics. (3)

not regularly offered

Chromosome bases of inheritance. Crossed as B O 441. Credit allowed for only B O 441 or PLB 412. Prerequisite: B O 340

PLB 413 Cytogenetics Laboratory. (2)*not regularly offered*

Microscopic analysis of meiosis and aberrant cell divisions over 6 hours. Lab. Cross-listed as BIO 442. Credit allowed for only BIO 442 or PLB 413. Prerequisite: BIO 441 or PLB 412.

PLB 414 Plant Pathology. (3)*spring*

Identification and control of biotic and abiotic factors that cause common disease problems in plants. Prerequisites: preferably both PLB 200 and 201 or only BIO 182 or its equivalent or on instructor approval.

*General Studies L***PLB 416 Medical Botany. (4)***summer*

Explores plants affecting human health: modern and folk usage, medicinal plants, quality control, evidence, plant chemistry and ethnopharmacology. 3 hours lecture, 3 hours lab. Prerequisites: preferably both PLB 200 and 201 or only BIO 182 or its equivalent or on instructor approval.

PLB 484 Internship. (3)*not regularly offered***PLB 498 Pro-Seminar. (1-7)***fall and spring*

Possible topics:

a. Plant Biology Internship 3

Apprenticeship for students on of PLB 108 to teach fifth grade children by planting gardens and conducting indoor plant experiments.

PLB 499 Individualized Instruction. (3)*not regularly offered***PLB 502 Perspectives in Plant Biology. (3)***fall*

Introduces major areas of research within the department with the goal of broadening knowledge to enable multidisciplinary research and communication. Prerequisite: instructor approval.

PLB 583 OTS: Fieldwork in Tropical Biology. (6-8)*spring and summer*

Intensive field-oriented courses with Organizational for Tropical Studies (OTS) in Costa Rica with emphasis on research in ecology and systematics. Lecture/lab/fieldwork. Cross-listed as BIO 583. Credit is allowed for only BIO 583 or PLB 583. Prerequisites: graduate standing, a course in basic ecology.

PLB 591 Seminar. (1)*fall and spring***ENVIRONMENTAL SCIENCE AND ECOLOGY****PLB 320 Environmental Science (Nonmajor). (3)***fall*

Environmental and biological concepts used to understand ecological systems with specific references to problems caused by humans. Can not be used for major credit in the biological sciences. Cross-listed as BIO 319. Credit is allowed for only BIO 319 or PLB 320.

*General Studies G***PLB 322 Environmental Science (Major). (3)***fall*

Nature of environmental and biological interaction: historical and modern examples: geology and global issues. Participation in environmental problem-solving activities. Lecture/lab. Prerequisites: preferably both PLB 200 and 201 or both GLG 110 and 111 or only GPH 111.

PLB 420 Plant Ecology: Organisms and Populations. (3)*spring, n odd years*

Factors and controls of the physiological, ecological and organization of plants and plant populations using empirical and theoretical approaches. 2 hours lecture, 3 hours lab. Fee. Prerequisite: BIO 320 or PLB 322 or its equivalent.

PLB 421 Plant Ecology: Communities and Ecosystems. (3)*spring, n even years*

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. Fee. Prerequisite: BIO 320 or PLB 322 or its equivalent.

PLB 422 Plant Geography. (3)*not regularly offered*

Plant communities of the world and their interpretation emphasizing North American plant associations. Cross-listed as GPH 422. Credit is allowed for only GPH 422 or PLB 422. Prerequisites: preferably both PLB 200 and 201 or only BIO 182 or only GPH 111.

PLB 430 Statistical Analyses in Environmental Science. (3)*spring*

ANOVAS: 1-way classification of factorial and partially hierarchical designs; introductory multivariate statistics. Prerequisite: MAT 210 or its equivalent.

*General Studies CS***PLB 432 Computer Applications in Biology. (3)***fall*

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 allowed for only BIO 406 or PLB 432. Prerequisite: both BIO 182 and MAT 117 or 210 or on instructor approval.

*General Studies CS***PLB 434 Landscape Ecological Analysis and Modeling. (3)***spring, n odd years*

Technical methods of landscape ecological analyses include mathematical and statistical examination and modeling of landscape ecological patterns and processes. Prerequisite: both BIO 320 and 406 or only PLB 432 or its equivalent.

PLB 520 Plant Structural Adaptation (1-3)*regularly offered*

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 its equivalent.

PLB 522 Plant Photosynthetic Adaptation. (1-3)*not regularly offered*

Evolution and ecology of C4 and CAM; adaptive traits: improving crop productivity in natural environments; comparative physiology of desert plants. Prerequisite: PLB 382 or instructor approval.

PLB 524 Methods in Environmental Plant Physiology. (3)*spring, n odd years*

Techniques to measure and quantify microclimate, mass transfer. Supporting principles: 2 hours lecture, 3 hours lab. Prerequisite: BIO 320 or PLB 308.

PLANT BIOCHEMISTRY AND MOLECULAR BIOLOGY**PLB 340 Plant Cell Physiology. (4)***spring, n odd years*

Structural and biochemical aspects of plant cell function and the relationships of cell function to whole plant processes. 3 hours lecture, 3 hours lab. Fee. Prerequisite: preferably both PLB 200 and 201 or only BIO 182 or its equivalent, CHM 111 or 115 or 231.

PLB 350 Applied Genetics. (4)*spring*

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. Cross-listed as MBB 350. Credit is allowed for only MBB 350 or PLB 350. Prerequisites: preferably both MBB 245 and 246 or only BIO 181 or its equivalent.

PLB 440 Photobiology. (3)*not regularly offered*

Principles underlying the effect of light on growth, development and behavior of plants, animals and microorganisms. Cross-listed as BIO 464. Credit is allowed for only BIO 464 or PLB 440. Prerequisites: CHM 231 or 331, 12 hours in sciences.

PLB 444 Plant Growth and Development (3)*spring*

Molecular basis of development: signaling, transduction pathways, gene regulation, control of organ formation, plant germination and growth. Prerequisite: BIO 353, PLB 340 recommended.

NOTE: For the General Studies requirement, courses and codes such as L, SQ, C, and H, see "General Studies," page 78. For graduation requirements, see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 51.

PLB 540 Plant Biochemistry. (3)

not regularly offered
 Structure and function of molecules emphasizing processes unique to plants carbon fixation synthesis of storage products pigments and secondary metabolite Prerequisites: BCH 361 and PLB 308 or by instructor approval

PLB 550 Plant Molecular Biology. (2)

spring odd year
 Biochemistry and molecular biology of plant organelles including protein targeting pathways and molecular design for plant improvements Prerequisite: instructor approval

PLB 552 Plant Genetic Engineering (3)

spring
 Plant transformation of transgenic plants using gene expression assays and application of plant genetic engineering. Prerequisite: instructor approval

PLB 553 Plant Genetic Engineering Laboratory. (2)

spring
 Practical demonstration of transgenic plants transformation expression assays and applications of plant genetic engineering. 6 hours lab Prerequisite: instructor approval

PLB 554 Plant Biotechnology. (3)

not regularly offered
 Aseptic culture propagation of plants and in vitro culture of organs and tissues. 2 hours lecture 3 hours lab Prerequisite: PLB 308 or 340 or 70

PLB 558 Molecular Mechanisms of Photosynthesis. (3)

spring
 Structure and function of photosynthetic complex mechanism of energy conversion in plant bacteria and mesophytes. Credits awarded for BCH 56 Prerequisite: instructor approval

URBAN HORTICULTURE

PLB 260 Plants in Cities: Introduction to Urban Horticulture. (4)

spring
 Principles and practice of horticulture emphasizing development growth and propagation of horticultural plants and environmental factors that affect these processes. 3 hours lecture 3 hours lab Fee. Prerequisite: prerequisite PLB 200 and 211 or 18 or only BIO 182 *General Studies SG*

PLB 360 Southwest Home Horticulture. (2)

fall and spring
 Multimedia resource on major surveying contemporary topics in Southwest horticulture including landscaping flower and vegetable gardening container ornamentals and other

PLB 362 Landscape Plants. (3)

fall
 Identification culture and use of ornamental plants in urban landscapes Fee Prerequisite: PLB 260 or equivalent

PLB 363 Golf Course Landscape Plants and Design. (3)

fall and spring
 Identification culture and use of plants in golf course setting Credits awarded for AGB 36 Prerequisite: AGB 367 PLB 363 Fee

PLB 364 Urban Forestry. (3)

fall
 Establishment care and maintenance of ornamental trees shrubs and vines Prerequisite: PLB 260 or equivalent

PLB 366 Intiorscape. (3)

fall even years
 Identification culture and use of indoor grown plants for interior environments Prerequisite: PLB 260 or instructor approval

PLB 370 Environmental Landscape Management. (3)

fall
 Installation irrigation and maintenance of ornamental plants in urban landscapes with emphasis on irrigated environments Credits awarded for AGB 36 Prerequisite: PLB 260 or its equivalent

PLB 372 Turf Management (3)

not regularly offered
 Site establishment and maintenance of turf grasses for lawn and sport areas. 2 hours lecture 3 hours lab Prerequisite: PLB 260 or its equivalent

PLB 472 Greenhouse/Nursery Management. (3)

spring, not even years
 Greenhouse structures environment and nursery operation design irrigation training and other principles relative to indoor grown species Fee Prerequisites: ERS 13 or 225 or 226 PLB 260

PLB 498 Pro-Seminar. (1-7)

not regularly offered
 Possible to a Urban Horticulture 1

Department of Political Science

Robert L. Youngblood

Chair

(SS 410) 480/965-6551

www.asu.edu/clas/polisci

PROFESSORS

BALL, BERMAN, CHAUDHURI, DAGGER, JONES, McDONOUGH, MCGOWAN, SMON, WALKER, YOUNGBLOOD

ASSOCIATE PROFESSORS

ASHLEY, CRITTENDEN, DANT, CO, DOTY, HERRERA, KAHN, KEATING, KENNEY, MTCHELL, SIMHONY, SPRUYT, WARNER

ASSISTANT PROFESSORS

C ELMAN, M ELMAN, KRUTZ

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 111 Political Ideology SB 3
POS 112 Governmental Politics SB 3
or POS 311 American National Government SB 3 3
POS 113 Comparative Government SB/G 3
or POS 163 China Politics SB/G 3
POS 311 Empire and Inquiry SB 3
Total 15

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 312. No more than six hours of POS 454 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,

ies, 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 10 Political Ideologies SB	3
POS 110 Government and Politics SB	3
or POS 31 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 CS	3
Total	15

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 319. No more than six hours of POS 484 Internship may be applied to the major.

B.S. in Political Science with a Concentration in Public Policy Analysis

This degree and concentration combination is intended for students with a strong interest in public policy. It is designed to help students develop perspectives and skills applicable to public policy analysis and program evaluation. This concentration consists of a minimum of 36 semester hours in political science and 12 hours in related fields.

Required Courses

POS 101 Political Ideologies SB	3
POS 110 Government and Politics SB	3
or POS 31 American National Government SB 3	
POS 150 Comparative Government SB/G	3
or POS 160 Global Politics SB/G 3	
POS 220 Political Issues and Public Policy SB	3
POS 301 Empirical Political Inquiry SB	3
POS 325 Public Policy Development SB	3
POS 401 Political Statistics CS	3
POS 426 Elements of Public Policy SB	3
POS 484 Internship ¹	1-6
POS electives ²	6-9
Electives ³	12

¹ As approved by the political science internship coordinator
² Additional POS elective courses are required
³ In closely related fields approved by a departmental academic advisor

B.S. in Political Science with a Concentration in Public Policy Advocacy and Lobbying

This degree and concentration combination is intended for students interested in affecting public policy. It is designed to help students develop perspectives and skills useful to those engaged as activists in shaping public policy. This concentration consists of a minimum of 36 semester hours in political science and 12 hours in related fields.

Required Courses

POS 101 Political Ideologies SB	3
POS 110 Government and Politics SB	3
or POS 31 American National Government SB 3	
POS 150 Comparative Government SB/G	3
or POS 160 Global Politics SB/G 3	
POS 220 Political Issues and Public Policy SB	3
or POS 325 Public Policy Development SB 3	
or POS 426 Elements of Public Policy SB 3	
POS 301 Empirical Political Inquiry SB	3
POS 313 The Congress SB	3
POS 323 Interest Groups SB	3
POS 401 Political Statistics CS	3
POS 484 Internship	1-6
POS electives	6-9
Electives ³	12

¹ As approved by the political science internship coordinator.
² Additional POS elective courses are required.
³ In closely related fields approved by a departmental academic advisor.

CERTIFICATES

Certificate in American Public Policy. The Certificate in American Public Policy is designed for undergraduate students who are anticipating careers in government, public service, or public administration and/or who are interested in understanding the dynamics of policy making and administration in American government.

Students majoring in any subject at the university may pursue the Certificate in American Public Policy. To be awarded the certificate, the student must complete at least 15 semester hours of political science courses as follows:

Choose one from the courses below	3
POS 110 Government and Politics SB	3
POS 310 American National Government SB 3	
Choose two or three from the courses below	6-9
POS 220 Political Issues and Public Policy SB 3	
POS 325 Public Policy Development SB 3	
POS 426 Elements of Public Policy SB 3	
Choose one or two from the courses below	3 or 6
POS 316 State and Local Government SB 3	
POS 320 Public Administration SB 3	
POS 411 Urban Government and Politics SB 3	
POS 422 Politics of Bureaucracy SB 3	
Choose up to one from the courses below	up to 3
POS 313 The Congress SB 3	
POS 314 American Presidency SB 3	
POS 484 Internship (up to 3 semester hours for a public administration related internship)	3
Total	15

Certificate students must have a minimum GPA of 2.00; only courses in which students have a grade of "C" or higher count toward the certificate.

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 324, for more information.

NOTE: For the General Studies requirement, courses and codes such as L, SQ, C and H see General Studies page 78. For graduation requirements see University Graduation Requirements page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses page 51.

Certificate in Civic Education. The Certificate in Civic Education is designed to contribute to the preparation of undergraduate students for

1. careers in primary and secondary education (where the teaching of government and civics may be involved);
2. careers or voluntary participation in politics, public service, and civic and social movements, and
3. further education in law, journalism, business, history, sociology, political science, and other fields where an understanding of questions of citizenship, leadership, community, democracy, public responsibility, and ethics is crucial.

The certificate does not substitute for degree requirements in any subject, including Political Science, rather, as a complement to the student's chosen major, the certificate program is intended to guide students to a variety of courses whose successful completion indicates their special accomplishment in the area of civic education.

Students majoring in any subject at the university may be awarded the Certificate in Civic Education upon completion of the following 15 semester hours of political science courses:

POS 101 Political Ideologies <i>SB</i>	3
POS 346 Problems of Democracy <i>HU</i>	3
POS 442 American Political Thought <i>HU</i>	3
Choose one from the courses below	3
POS 340 History of Political Philosophy I <i>HU, H</i>	3
POS 341 History of Political Philosophy II <i>HU, H</i>	3
POS 443 Topics in Contemporary Political Theory <i>HU</i>	3
Choose one from the courses below	3
POS 111 Government and Politics <i>SB</i>	3
POS 150 Comparative Government <i>SB</i>	3
POS 160 Global Politics <i>SB, G</i>	3
POS 270 American Legal System <i>SB</i>	3
POS 300 Contemporary Controversies in Global Politics	3
POS 313 The Congress <i>SB</i>	3
POS 314 The American Presidency <i>SB</i>	3
POS 315 The Supreme Court <i>SB</i>	3
POS 330 Contemporary Controversies in Domestic Politics <i>SB</i>	3
POS 332 American Political Parties <i>SB</i>	3
POS 333 Interest Groups <i>SB</i>	3
POS 370 Law and Society <i>SB</i>	3
POS 417 The Arizona Political System <i>SB</i>	3
POS 435 Women and Politics <i>SB</i>	3
POS 439 Minority Group Politics in America <i>SB, C</i>	3
Total	15

Certificate students must have a minimum GPA of 2.00; only courses in which students have a grade of "C" or higher count toward the certificate

Certificate in International Studies. The Certificate in International Studies is designed to prepare students for careers in government agencies, international governmental and nongovernmental organizations, multinational firms and banks, and for graduate studies in International Relations or Political Science. The certificate is not a substitute for degree requirements in any subject, including political science; rather, the required courses add an international and comparative dimension to the student's chosen major.

Requirements for the certificate are intended to provide an understanding of international relations and comparative

government, an awareness of global social and political economic processes, and sensitivity to foreign political systems and cultures. These objectives are met by a sequence of political science courses in the areas of international relations, comparative politics, and area studies.

Students majoring in any subject at the university may be awarded the Certificate of International Studies upon completion of the following 15 semester hours of political science courses:

Choose one from the courses below	3
POS 150 Comparative Government <i>SB, G</i>	3
POS 160 Global Politics <i>SB, G</i>	3
Choose one from the courses below	3
POS 361 American Foreign Policy <i>SB, G</i>	3
POS 364 U.S. National Security Analysis <i>SB</i>	3
Choose two from the courses below	6
POS 300 Contemporary Controversies in Global Politics	3
POS 465 International Organization and Law <i>SB, G</i>	3
POS 467 International Security <i>SB, G</i>	3
POS 486 International Political Economy <i>SB</i>	3
Choose one from the courses below	3
POS 350 Comparative Politics <i>SB, G</i>	3
POS 355 Russia and Successor States <i>SB, G</i>	3
POS 356 Western Europe <i>SB, G</i>	3
POS 357 South Asia Politics <i>SB, G</i>	3
POS 358 Southeast Asia <i>SB, G</i>	3
POS 359 African Politics and Society <i>SB, G</i>	3
POS 360 World Politics <i>SB, G</i>	3
POS 451 China, Japan, and the Koreans <i>SB, G</i>	3
POS 452 China <i>SB, G</i>	3
POS 453 South America <i>SB, G</i>	3
POS 454 Mexico <i>SB, G</i>	3
POS 455 Central America and the Caribbean <i>SB, G</i>	3
POS 459 South and Southern Africa <i>SB, G</i>	3
POS 463 Inter-American Relations <i>SB, G</i>	3
POS 468 Comparative Asian Foreign Policies <i>SB, G</i>	3
Total	15

Honors students who select an international topic for their theses may apply thesis credit toward the 15 hours of international course work for the certificate.

Depending upon their interests, certificate students are strongly advised to take 12 semester hours or more from appropriate courses in anthropology (ASB), economics (ECN), geography (GCU), history (HST), international business studies (IBS), and sociology (SOC). Knowledge of a modern foreign language equivalent to at least two years of college study is strongly recommended.

Certificate students must have a minimum GPA of 2.00; only courses in which students have a grade of "C" or higher count toward the certificate.

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 326, 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 <i>SB</i>	3
POS 110 Government and Politics <i>SB</i> or POS 310 American National Government <i>SB</i> (3)	3
POS 150 Comparative Government <i>SB, G</i>	3
POS 160 Global Politics <i>SB, G</i>	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" grade 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> or POS 310 American National Government <i>SB</i> (3)	3
POS 150 Comparative Government <i>SB, G</i> or POS 160 Global Politics <i>SB, G</i> (3)	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> or POS 310 American National Government <i>SB</i> (3)	3
POS 150 Comparative Government <i>SB, G</i> or POS 160 Global Politics <i>SB, G</i> (3)	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 446.

GRADUATE PROGRAMS

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

POLITICAL SCIENCE (POS)

POS 101 Political Ideologies. (3)

fall and spring
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)

fall and spring
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. Credit is awarded for only POS 110 or 310
General Studies SB

POS 150 Comparative Government. (3)

fall and spring
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)

fall and spring
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)

once a year
Contemporary social problems and political issues, particularly development of public policy
General Studies SB

POS 230 Current Issues in National Politics. (3)

fall and spring
Major issues facing national governments in the domestic field. Prerequisite: ENG 101 (or 105)
General Studies L/SB

POS 240 Introduction to Southeast Asia. (3)

fall
Interdisciplinary introduction to the cultures, regions, political systems, geography and history of Southeast Asia. Cross-listed as ASB 240, GCU 240, HST 240, REL 240. Credit is awarded for only ASB 240 or GCU 240 or HST 240 or POS 240 or REL 240
General Studies G

POS 260 Current Issues in International Politics. (3)

fall and spring
Analyzes major current problems in world politics. Prerequisite: ENG 101 (or 105)
General Studies L/SB, G

POS 270 American Legal System. (3)

fall and spring
Concepts, institutions, classifications, and functions of law. Role of the courts and impact of judicial decisions on making social change
General Studies SB

POS 300 Contemporary Controversies in Global Politics. (3)

fall and spring
Explores key controversies in global politics including security, economic stability, poverty, gender, race, and the environment
General Studies SB, G

NOTE: For the General Studies requirement courses, and codes such as L, SQ, C and H) see General Studies page 78. For graduate requirements, see "University Graduation Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses page 51.

POS 301 Empirical Political Inquiry. (3)*fall and spring*

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

POS 310 American National Government. (3)*fall and spring*

Powers, functions, and agents of American political institutions. Meets the federal government requirement for teacher certification. Credit is awarded for only POS 310 or 110
General Studies SB

POS 311 Arizona Constitution and Government (2)*fall and spring*

Constitution and government of the State of Arizona. Credit is awarded for only POS 311 or 316 or 417. Meets the Arizona constitution requirement for teacher certification. May not be counted for the major or a teaching major or minor. Political Science

POS 313 The Congress. (3)*once a year*

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

POS 314 The American Presidency. (3)*once a year*

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

POS 315 The Supreme Court. (3)*once a year*

Role of the Supreme Court in American society and political examination of decision-making process and impact of decisions; restraint versus activism
General Studies SB

POS 316 State and Local Government. (3)*once a year*

Survey of the operations, problems, and policies of state and local governments in the United States. Credit is awarded for only POS 316 or 311
General Studies SB

POS 320 Public Administration. (3)*once a year*

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)*once a year*

Examines one or more aspects of public policy development including agenda setting, policy formulation, policy implementation, and policy analysis.
General Studies SB

POS 330 Contemporary Controversies in Domestic Politics. (3)*fall and spring*

Explores key controversies in domestic politics including the environment, the economy, poverty, gender, race, and security
General Studies SB

POS 331 Public Opinion. (3)*once a year*

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

POS 332 American Political Parties. (3)*once a year*

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

POS 333 Interest Groups. (3)*once a year*

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)*once a year*

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)*once a year*

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

POS 341 History of Political Philosophy II. (3)*once a year*

Western political philosophy and their theories from the 17th to the 20th centuries
General Studies HU H

POS 346 Problems of Democracy (3)*once a year*

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)*once a year*

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

POS 351 Democratization. (3)*fall*

Examines the consolidation of democracy in postauthoritarian and postcommunist settings, e.g., Latin America, Eastern Europe. As a

POS 355 Russia and Successor States. (3)*once a year*

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

POS 356 Western Europe. (3)*once a year*

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)*once a year*

Analyzes the political culture, politics, and political systems of South Asia. Lecture, discussion
General Studies SB G

POS 358 Southeast Asia. (3)*once a year*

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

POS 359 African Politics and Society. (3)*not regularly offered*

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)*once a year*

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

POS 361 American Foreign Policy. (3)*once a year*

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

POS 364 U.S. National Security Analyses. (3)*once a year*

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

POS 370 Law and Society. (3)*once a year*

Analyzes debates among social scientists and legal theorists concerning the relationship between "law" and society
General Studies SB

POS 401 Political Statistics. (3)*fall and spring*

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

POS 410 Urban Government and Politics. (3)*once a year*

Governmental organizations decisions making structures and problems of urban political systems
General Studies SB

POS 417 The Arizona Political System. (3)*not regularly offered*

Contemporary political problems within the context of Arizona as constitutional political and social frameworks Meets the Arizona Constitution requirement for teacher certification Credits awarded for only POS 417 or 311

*General Studies SB***POS 422 Politics of Bureaucracy. (3)***not regularly offered*

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)*not regularly offered*

Policy process budgeting strategy used to influence public process recent reforms in public budgeting
General Studies SB

POS 426 Elements of Public Policy. (3)*once a year*

Each sector may cover relevant top concerns merit protection natural resource national environmental protection science and technology or theories of public policy May be repeated for credit when top concerns vary

*General Studies SB***POS 431 Campaigns and Elections. (3)***once a year*

Examines campaigns from a multitude of perspectives including election political campaign strategy and voter Lecture discussion

*General Studies SB***POS 433 Money and Politics (3)***once a year*

Role of money and special interests in election campaigns politics and public policy making in American politics Lecture discussion
General Studies SB

POS 434 Media and Politics. (3)*once a year*

Studies 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)*not regularly offered*

Women's roles various political contexts Focus varies with instructor
General Studies SB C

POS 439 Minority Group Politics in America (3)*not regularly offered*

Role of minority groups in American politics
General Studies SB C

POS 442 American Political Thought. (3)*once a year*

Political theories and movements from the 19th century to the present

*General Studies H***POS 443 Topics in Contemporary Political Theory (3)***once a year*

Major problems and the resolutions contemporary political thought
General Studies HU

POS 445 Asian Political Thought. (3)*once a year*

Contemporary political ideas and theories in selected Asian countries including the impact of Marxist and non-Marxist theories on contemporary processes

*General Studies SB G***POS 451 China, Japan, and the Koreans. (3)***once a year*

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)***once a year*

Background of the Communist revolution political processes and development of reforms in China from a comparative perspective
General Studies SB G

POS 453 South America. (3)*once a year*

Governmental institutions political processes and development of the South American state
General Studies SB G

POS 454 Mexico (3)*once a year*

Mexican federal state and congressional system
General Studies SB G

POS 455 Central America and the Caribbean. (3)*once a year*

Governmental institutions political processes and development of the state and dependent areas of Central America and the Caribbean
General Studies SB G

POS 459 South and Southern Africa (3)*once a year*

Political apartheid South African government and political South Africa and the African regional security and development
General Studies SB G

POS 463 Inter-American Relations (3)*once a year*

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

POS 465 International Organization and Law (3)*once a year*

History practical application of international law future of international relations international law regime and international law
General Studies SB G

POS 467 International Security. (3)*once a year*

Examines issues affecting international security of states and peoples segment of international human geographic environmental and demographic
General Studies SB G

POS 468 Comparative Asian Foreign Policies. (3)*once a year*

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

POS 471 Constitutional Law I (3)*once a year*

Development of the US Constitution national referendum decision of the Supreme Court and organization of the federal courts
 a review separation of powers federalism the federalism
 case election tax and spending power state power
General Studies SB

POS 472 Constitutional Law II (3)*once a year*

Development of the Constitution referendum decisions of the Supreme Court executive equality of law
 government
General Studies SB

POS 480 Methods of Teaching Government. (3)*not regularly offered*

Methods of instruction organization and presentation of subject matter
 national political science equipment 15 hours not a scene
 structural approach

POS 484 Internship. (1-12)*not regularly offered*

NOTE: For the General Studies equivalent courses and degrees such as SQ C and H see General Studies page 78 For graduate requirements see University Graduate Requirements page 74 For an explanation of additional minimums referred to in this catalog see Classification of Courses page 51

POS 485 Political Economy. (3)*once a year*

Problems, policies, and possibilities of various political-economic systems and the interrelationship of capitalism, socialism, and democracy.

*General Studies SB***POS 486 International Political Economy. (3)***once a year*

Contending approaches to historical and contemporary issues of international political economy including global welfare, equity, ecology and peace

*General Studies SB G***POS 498 Pro-Seminar. (3)***once a year*

Small group study and research for advanced students within their major area. Prerequisite: major in the department or instructor approval

*General Studies L***POS 499 Individualized Instruction. (3)***not regularly offered***POS 501 Methods of Political Science. (3)***not regularly offered*

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)*once a year*

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

POS 503 Empirical Political Inquiry. (3)*once a year*

Research methods and techniques of the discipline emphasizing empirical foundations and analytic methods employed in subfields. Prerequisites: POS 401 (or its equivalent) instructor approval

POS 530 American Politics. (3)*once a year*

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)*not regularly offered*

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

POS 550 Comparative Politics. (3)*once a year*

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

POS 560 International Relations. (3)*once a year*

Surveys major theoretical approaches and debates in international relations. Seminar

POS 563 Comparative Asian Security Policies. (3)*not regularly offered*

Analyze domestic and international constraints, belief systems, and economic components in security decisions by major powers and Asian nations. Seminar. Prerequisite: instructor approval.

POS 590 Reading and Conference. (1-12)*not regularly offered***POS 591 Seminar. (1-12)***once a year*

Possible topics

- (a) American Politics (3)
- (b) Comparative Politics (3)
- (c) Global Politics (3)
- (d) Political Theory (3)

POS 592 Research. (1-12)*not regularly offered***POS 598 Special Topics. (1-4)***once a year*

Possible topics

- (a) American Politics (3)
- (b) Comparative Politics (3)
- (c) Global Politics (3)
- (d) Political Theory (3)

POS 599 Thesis. (1-12)*not regularly offered***POS 601 Advanced Experimental Research. (3)***not regularly offered*

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

POS 602 Advanced Survey Research. (3)*not regularly offered*

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

POS 603 Polimetrics I. (3)*once a year*

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

POS 604 Polimetrics II. (3)*once a year*

Applies quantitative techniques to research topics producing publishable papers through exposure to time series, logit and probit, and simultaneous equations. Prerequisites: a combination of POS 401 and 503 and 603 or on your instructor approval

POS 606 Qualitative and Textual Analysis. (3)*spring in odd years*

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)*not regularly offered*

Introduction to comparative state policy emphasizing policy or performance differences among the states and the reasons for these differences. Seminar. Prerequisites: both POS 530 and 603 or on your instructor approval

POS 636 Electoral Behavior. (3)*not regularly offered*

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

POS 638 Law and Politics. (3)*not regularly offered*

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)*not regularly offered*

Examines contending approaches to national, social, and political change. Seminar. Prerequisite: instructor approval

POS 660 The Modern World System. (3)*not regularly offered*

Theoretical 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)*not regularly offered*

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

POS 662 International Organization. (3)*not regularly offered*

History, practice, political significance, and future of international institutions, international regimes, and other approaches to international organization. Seminar. Prerequisite: instructor approval

- POS 664 War, Peace, and Conflict Processes. (3)**
not regularly offered
 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)**
not regularly offered
 Examines foreign policy theory and methods. Development and critical question of research designs analyzing foreign policy processes within and among nations. Seminar. Prerequisite: instructor approval.
- POS 691 Seminar. (1-12)**
not regularly offered
- POS 790 Reading and Conference. (1-12)**
not regularly offered
- POS 792 Research. (3)**
fall and spring
 Projects in various areas of political science. Prerequisite: doctoral student.

Department of Psychology

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

REGENTS' PROFESSORS

C ALDIN, EISENBERG, RUSSO

PROFESSORS

AIKEN, BARRERA, BRAUN, BRAVER, CASTRO, CHASSIN, HOMA, KAROLY, KENRICK, KILLEEN, KINGHT, LANYON, LINDER, MacKINNON, MILLSAP, NEUBERG, OKUN, PARKINSON, PRESSON, REICH, SADALLA, SANDLER, SOMERVILLE, VAN ORDEN, WEST, WOLCHK, ZAUTRA

ASSOCIATE PROFESSORS

CASTANEDA, DAVIS, FABRICIUS, GOLDINGER, GONZALES, LESHOW, TZ, NAGOSH, NESEWANDER, NEMEROFF, SAENZ, STONE

ASSISTANT PROFESSORS

E AMAZEEN, P. AMAZEEN, CONRAD, KHOO, LUECKEN, McBEATH

SENIOR LECTURERS

BARTON, WEIGAND, WOSNICK

LECTURER

PALMER

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	3
	or PGS 341 Developmental Psychology SB (3)	
	or PGS 350 Social Psychology SB (3)	
PSY 230	Introduction to Statistics CS	3
PSY 290	Research Methods L/SG	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

Also required are one additional upper division PSY course (excluding PSY 484, 492, 493, 497, and 499); two additional upper division PGS or PSY courses; and two additional psychology courses, excluding PGS 194, 270, 484, or PSY 494 or 497. A maximum 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 or PSY 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 CS	3
CSE 185	Internet and the World Wide Web	3

See "College Degree Requirements," page 319

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	3
	or PGS 341 Developmental Psychology SB (3)	
	or PGS 350 Social Psychology SB (3)	
PSY 230	Introduction to Statistics CS	3
PSY 290	Research Methods L/SG	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

NOTE: For the General Studies requirement, courses and codes (such as L, SQ, C, and H) see "General Studies" page 78. For graduation requirements see "University Graduation Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Casual Catalog of Courses" page 51.

Also required are one additional upper division PSY course excluding PSY 484, 492, 493, 497, or 499 (two additional upper division PGS or PSY courses and two additional psychology courses excluding PGS 194, 271, 484, and PSY 484 or 497. A maximum of three semester hours of Supervised Research (PGS or PSY 399, PGS or PSY 499, or PSY 492) and a maximum of three hours of Honors Thesis (PSY 493) can be used to satisfy major requirements. Students may take a maximum of six hours of PGS or PSY 399 and six hours of PGS 499 and PSY 492 combined. Eighteen hours in courses related to psychology must be passed with a minimum grade of C- level, must be approved by an undergraduate advisor at the end of MAT 210 Brief Calculus or higher; one life science lab course (BIO or MIC), one physical science lab course (AS, CHM, GLG, or PHY), and one course from a list of the following:

- CSF 15 Computer Teac Center
- CSE 35 Internet and World Wide Web

Further, the science courses taken to satisfy the B.S. degree requirements cannot be used to meet the science requirement of the university General Studies requirement.

MINOR IN PSYCHOLOGY

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

- PGS 111 Introduction to Psychology
- PGS 315 Personality Theory and Research
- PGS 314 Developmental Psychology
- PGS 313 Social Psychology
- PSY 311 Introduction to Statistics
- PSY 312 Research Methods
- PSY 323 Sensation and Perception
- PSY 327 Learning and Motivation
- PSY 334 Memory and Cognition
- PSY 341 Developmental Psychology

Total

Two additional upper division PGS or PSY courses are required.

A maximum of three semester hours of Supervised Research (PGS or PSY 399, PGS or PSY 492), PSY 493 and a maximum of three hours of Honors Thesis (PSY 493) can be used to satisfy minor requirements. Students with a prerequisite equivalent course may elect PSY 303 from the requirements. All 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 departmental advisor.

Social Studies. See "Social Studies" page 440.

GRADUATE PROGRAMS

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

PSYCHOLOGY (PGS)

PGS 101 Introduction to Psychology. (3)

fall/spring/summer
Major prerequisite: a direct entry psychology. Requires participation in department sponsored research or educational equivalent activity.
General Studies SB

PGS 194 Special Topics. (1-4)

interim/summer offered

PGS 222 Human Sexual Behavior (3)

fall/spring
Prerequisite: sex behavior including variation and deviant sexual behavior, effects of sexual attraction, differences and sexual dysfunction and treatment. Prerequisite: PGS 111.
General Studies SB

PGS 270 Psychology of Adjustment. (3)

fall/spring/summer
Prerequisite: mental health adjustment factors and personal development from a human experiential research intended for a graduate education. Prerequisite: PGS 101.
General Studies SB

PGS 304 Effective Thinking. (3)

online
Underlying an improved intellectual and behavioral skills for mathematical analysis of a problem and decision making. Prerequisite: MAT 119 or PSY 200 or its equivalent.
General Studies

PGS 306 Environmental Psychology. (3)

fall/spring/summer
Concepts and strategies related to behavior and interaction with physical environment. Prerequisite: PGS 101.
General Studies SB

PGS 315 Personality Theory and Research. (3)

fall/spring/summer
Definition and description of personality terms of the relevant methodological approaches. Prerequisite: PGS 101 or PSY 290.
General Studies SB

PGS 341 Developmental Psychology. (3)

fall/spring
Analyze behavior development in terms of psychological principles. Content includes human development. Prerequisite: PGS 101 or PSY 290.
General Studies SB

PGS 344 Directed Child Study (3-4)

fall/spring/summer
This is a method of teaching with preschool children and supervised practice in the Child Study laboratory. 6-8 practice hours. Prerequisite: CDE 232, ECD 314 or PSY 290.

PGS 350 Social Psychology. (3)

fall/spring/summer
Human behavior and social concepts as aggression, attribution, conformity, group behavior, perception and persuasion. Prerequisite: PGS 111.
General Studies SB

PGS 351 Honors Social Psychology. (3)

interim/summer offered
Critical analysis of human behavior for honors student topics. Influence of attitudes, attraction, aggression on perception. Open only to student without previous credit for Psychology. Prerequisite: PGS 101 honors.
General Studies SB

PGS 365 Community Psychology (3)

fall/spring
Method and application of a well-being community emphasis. Research. Prerequisite: PGS 315 or PSY 290.
General Studies SB

PGS 394 Special Topics (1-4)

interim/summer offered

PGS 399 Supervised Research. (1-3)*fall spring summer*

Experience with the context of current faculty research projects. Student assignments responsibility depending on qualifications. Yearly grade only. May be repeated for a total of 6 hours. Prerequisite: approval of faculty member before registration. B average in major. Prerequisite: corequisite. PSY 230 or its equivalent.

PGS 414 History of Psychology. (3)*fall and spring*

Historical development of psychology from its philosophical beginnings to the present. Prerequisites: PGS 101, PSY 23, 290.

*General Studies: L/SB***PGS 427 Psychology of Aging. (3)***not regularly offered*

Analyses issues maintenance, and gain associated with cognitive and affective aging. Individual differences in coping with normative life transitions. Prerequisite: PGS 101, 341.

*General Studies: L/SB***PGS 430 Industrial Psychology. (3)***fall spring summer*

Organizations 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)*fall and spring*

Experimental and theoretical literature in child development and behavior. Prerequisite: PGS 341 or instructor approval.

*General Studies: L/SB***PGS 443 Abnormal Child Psychology. (3)***fall and spring*

Covers major disorders of childhood and adolescence e.g. autism hyperactivity phobias and delinquency including cause diagnosis treatment and prevention. Prerequisites: both PGS 101 and 315 or 341 or 350 or on instructor approval.

*General Studies: L/SB***PGS 444 Adolescent Psychology and Psychopathology. (3)***not regularly offered*

Advanced overview of normal adolescent psychological development and psychopathological disorders of this age period. Lecture/discussion. Prerequisites: PGS 101, 341, PSY 290.

*General Studies: L***PGS 445 Child Language and Drawing. (3)***fall*

Language acquisition and developmental changes in drawing considered in the context of cognitive developmental stages. Children's representation and communication of knowledge through language and drawing. Prerequisite: PGS 341.

*General Studies: SB***PGS 446 Social Development. (3)***not regularly offered*

Discusses theory, research and issues regarding social development. Example topics: format of attachments prosocial development, and gender role development. Lecture/seminar. Prerequisite: PGS 341.

*General Studies: L***PGS 450 Social Perception and Cognition. (3)***not regularly offered*

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: L***PGS 451 Stereotyping, Prejudice, and Discrimination. (3)***not regularly offered*

Critical investigation of the processes underlying and the factors contributing to stereotyping prejudice, and discrimination. Lecture/discussion. Prerequisites: PGS 101, 350.

*General Studies: L***PGS 452 Applied Social Psychology. (3)***fall*

Studies applications of social psychology theory and concepts in natural settings research design and data analysis. Lecture, laboratory activities. Prerequisites: PGS 101, 350, PSY 230.

*General Studies: L***PGS 453 Organizational Behavior. (3)***not regularly offered*

Survey of psychological theory and research as applied to the behavior of individuals in organizational settings. Lecture/discussion. Prerequisites: PGS 101, 350.

PGS 458 Group Dynamics. (3)*fall*

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

PGS 461 Interpersonal Influence. (3)*not regularly offered*

Principles and procedures that affect the process of social influence. Consideration of attitude, compliance, induction, and perceptual influences. Prerequisite: PGS 350.

*General Studies: SB***PGS 462 Health Psychology. (3)***fall and spring*

Contribution of psychology to health promotion and illness prevention on adaptation to acute and chronic stress and to the health care system. Prerequisites: PSY 230, 290.

PGS 463 Advanced Psychology of Adjustment. (3)*fall*

Critical analysis and effective expression of psychological theory and research of the topic of adjustment. Lecture/discussion, writing. Prerequisites: PSY 230, 290, completion of First Year Composition requirement. General Studies L course.

*General Studies: L***PGS 464 Minority Issues in Psychology. (3)***spring*

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

PGS 465 Psychology of Stress and Coping. (3)*fall*

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: L***PGS 466 Abnormal Psychology. (3)***fall, spring, summer*

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)***not regularly offered*

Psychological nature and bases of magical beliefs and their impact on health behaviors eating practices and interpersonal relations. Lecture/seminar. Prerequisites: a combination of PGS 315 and 466 and PSY 434 or on instructor approval.

*General Studies: L***PGS 468 Psychology and Law. (3)***fall and spring*

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)*spring*

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)*fall and spring*

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

NOTE: For the General Studies requirement courses, and codes such as L, SQ, C and H, see 'General Studies, page 78. For graduation requirements see 'University Graduation Requirements, page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see 'Classification of Courses, page 51.

PGS 484 Internship. (1–12)*not regularly offered***PGS 494 Special Topics. (1–4)***not regularly offered***PGS 499 Individualized Instruction. (1–3)***not regularly offered***PSYCHOLOGY (PSY)**

For more PSY courses, see the "Faculty of Applied Psychology under East College at ASU East"

M PSY 230 Introduction to Statistics. (3)*fa, spring, summer*

Basic concepts in descriptive and inferential statistics emphasizing applications to psychology. Self-paced. PS and lecture sections. Prerequisites: MAT 117, PGS 101
General Studies CS

M PSY 290 Research Methods. (4)*fall and spring*

Planning, execution, analysis, and reporting of experiments. Literature procedures, and instruments in representative areas of psychology research. 3 hours lecture, 3 hours lab. Prerequisites: ENG 114 (or 105), PSY 230
General Studies L/SG

M PSY 320 Learning and Motivation. (3)*fall, spring, summer*

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

M PSY 323 Sensation and Perception. (3)*fall and spring*

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

M PSY 324 Memory and Cognition. (3)*fa, spring, summer*

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

M PSY 325 Physiological Psychology. (3)*fa, spring, summer*

Relationships of physiological processes to behavior. Emphasis on nervous system functioning. Prerequisites: PSY 290 or 2 courses in biology/science; instructor approval

M PSY 330 Statistical Methods. (3)*spring*

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 CS

M PSY 390 Experimental Psychology. (3)*spring*

Continuation of concepts in PSY 290 with emphasis on multifactor designs and programmatic sequence of experiments. Lecture, lab. Prerequisite: PSY 290
General Studies L

M PSY 399 Supervised Research. (1–3)*fall, spring, summer***M PSY 420 Analysis of Behavior. (3)***not regularly offered*

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

M PSY 424 Genetic Psychology. (3)*spring*

Introduction to the concepts, methodologies, and findings of behavioral genetics for psychology majors. Prerequisites: PGS 101, PSY 230, 290
General Studies L

M PSY 425 Biological Bases of Behavior. (3)*not regularly offered*

Critical study of physiological psychology, brain mechanisms underlying motivation and learning. Prerequisite: PSY 325
General Studies L

M PSY 426 Neuroanatomy. (4)*not regularly offered*

Structure and function of mammalian brain including sheep brain dissection. 3 hours lecture, 3 hours lab. Prerequisite: PSY 325 or its equivalent

*General Studies L***M PSY 434 Cognitive Psychology. (3)***spring*

Human organization 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 L

M PSY 437 Human Factors. (3)*fa*

Emphasizes human factors in high technology systems. Specific topics include systems development, systems analysis, techniques of display and controls. Prerequisites: PSY 290 and upper division standing or on-line instructor approval.

*General Studies L***M PSY 470 Psychopharmacology. (3)***fa and spring*

Basics of drug action at physiological and behavioral levels. Psychopharmacology and medical applications and materials of drugs used in the treatment of mental illness. Prerequisites: PSY 325, 1 semester each of biology and chemistry

M PSY 484 Internship. (1–12)*not regularly offered***M PSY 492 Honors Directed Study. (1–6)***not regularly offered***M PSY 493 Honors Thesis. (1–6)***not regularly offered***M PSY 494 Special Topics. (1–4)***not regularly offered***M PSY 497 Honors Colloquium. (1–6)***not regularly offered***M PSY 498 Pro-Seminar. (1–7)***fa and spring*

Possible topics:
a. Behavioral Neuroscience Research (3)
General Studies L

M PSY 499 Individualized Instruction. (1–3)*not regularly offered***M PSY 501 Supervised Teaching. (4)***fa*

Experience and examination of perspectives in teaching undergraduate psychology. Prerequisites: graduate standing in psychology; instructor approval

M PSY 506 Survey of Research in Environmental Psychology. (3)*fa*

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

M PSY 512 Advanced Learning. (3)*not regularly offered*

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

M PSY 524 Advanced Physiological Psychology. (3)*not regularly offered*

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

M PSY 528 Sensation and Perception. (3)*not regularly offered*

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

M PSY 530 Analysis of Variance in Psychological Research. (3)*fa*

One-way and two-factor analysis of covariance, post hoc testing, probing of interaction, mixed designs, power, computer applications. Prerequisite: undergraduate statistics; instructor approval

M PSY 531 Multiple Regression in Psychological Research. (3)*spring*

Multiple regression and correlation, hierarchical regression, interaction, curvilinear relationships, categorical predictors, ANOVA, regression on designed statistics, regression graphs. Prerequisite: PSY 530 or instructor approval

M PSY 532 Analysis of Multivariate Data. (3)*fa*

Matrix algebra for multivariate procedures: component and factor analysis, canonical and discriminant analysis, classification MANOVA, logistic regression, hierarchical nearest mode. Prerequisite: both PSY 530 and 531 or only instructor approval

M PSY 533 Structural Equation Modeling. (3)*spr ng*

Path analysis: exploratory and confirmatory factor analysis: recursive and nonrecursive latent variable models: mean and covariance structures; latent growth models. Prerequisite: PSY 532 or instructor approval

M PSY 534 Psychometric Methods. (3)*fa and spr ng*

Theory and practice of psychometric measurement using classical and modern test theories. Reliability assessment: test validity: test construction: test usage. Prerequisites: both PSY 530 and 531 or only instructor approval

M PSY 535 Cognitive Processes. (3)*not regularly offered*

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

M PSY 536 Statistical Methods in Prevention Research. (3)*fa l and spr ng*

Statistical methods used in prevention research including epidemiological methods, logistic regression, program effect estimation, estimation and mediation analysis. Prerequisites: both PSY 530 and 531 or only instructor approval

M PSY 537 Longitudinal Growth Modeling (3)*not regularly offered*

Growth modeling methodology to describe individual variation in development over time. Employs multilevel and structural equation modeling frameworks. Prerequisite: PSY 533 or instructor approval

M PSY 538 Advanced Structural Equation Modeling. (3)*not regularly offered*

Mean and covariance structure analysis: includes multilevel group modeling: two-level hierarchical modeling: longitudinal growth modeling analysis with categorical outcomes. Prerequisite: PSY 533 or instructor approval

M PSY 539 Meta-Analysis I (1)*fa l*

Meta-analysis: searching the literature: coding study characteristics, computing effect sizes. Must be followed by PSY 540. Seminar. Prerequisites: both PSY 530 and 531 or only instructor approval

M PSY 540 Meta-Analysis II. (2)*spr ng*

Continuation of PSY 539. Meta-analysis: computing effect sizes and analyzing the heterogeneity of effect sizes. Seminar. Prerequisite: PSY 539

M PSY 541 Research in Cognitive Development. (3)*not regularly offered*

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

M PSY 542 Social Development (3)*not regularly offered*

Reviews and critiques major issues in the area of social development. Covers theory, research and content. Prerequisite: instructor approval

M PSY 550 Advanced Social Psychology (3)*fa and spr ng*

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

M PSY 551 Advanced Social Psychology. (3)*fa l and spr ng*

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

M PSY 553 Social Influence. (3)*not regularly offered*

Researches literature relevant to attitude formation and change, conformity, obedience, power, compliance, altruism, and others. Prerequisite: PSY 551 or instructor approval

M PSY 555 Experimental and Quasi-Experimental Designs for Research. (3)*not regularly offered*

Reviews research techniques: Analyzes laboratory and field research applications to specific topics. Prerequisite: instructor approval

M PSY 569 Advanced Study of Personality. (3)*not regularly offered*

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

M PSY 572 Psychological Assessment. (3)*fa*

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

M PSY 573 Psychopathology. (3)*fa l*

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

M PSY 574 Psychotherapy. (3)*spr ng*

Detailed survey of the theoretical and empirical literature relating to verbal psychotherapy and interviewing methods. Structured role playing practice in the major procedures. Prerequisite: admission to the clinical Ph.D. program or instructor approval.

M PSY 578 Child Psychopathology. (3)*not regularly offered*

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

M PSY 582 Community Psychology. (3)*summer*

Community systems: intervention techniques: consultation models: history and current status 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.

M PSY 588 Consultation Methods. (3)*not regularly offered*

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

M PSY 624 Clinical Neuroscience. (3)*spr ng*

Examines the biological underpinnings of psychological disorders at the molecular, cellular and system levels: schizophrenia, depression, anxiety, etc. Lecture plus seminar. Prerequisites: graduate standing; instructor approval

NOTE: For the General Studies requirement courses, and codes such as L, SQ, C and H see General Studies page 78. For graduation requirements see University Graduation Requirements page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses" page 51.

Department of Religious Studies

Joel Gereboff
Chair
 (ECA 377) 480/965-7145
www.asu.edu/clas/religious_studies

PROFESSORS

CADY, COUDERT, FELDHAUS, FOARD

ASSOCIATE PROFESSORS

CLAY, FESSENDEN, GEREBOFF, MOORE, MORRISON
 SCHOBBER, SWANSON, WOODWARD

ASSISTANT PROFESSORS

DAMREL, LEON, UMAR

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, or
4. in place of a second seminar, a student may take REL 499 to write an undergraduate thesis.

The Religious Studies major is an appropriate choice for students wishing to explore such areas as African or 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 324, or access the department Web site at www.asu.edu/clas/religious_studies.

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 "Russian and East European Studies," page 326.

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. See the *Graduate Catalog* for requirements.

RELIGIOUS STUDIES (REL)

REL 100 Religions of the World. (3)

fall/spring

Introduction to the history, religious traditions of the world including Buddhism, Christianity, Hinduism, Islam, Judaism, and others. Credit is awarded for only REL 100 or 200.

General Studies: HU/G

REL 200 The Study of Religious Traditions. (3)

not regularly offered

Writing intensive course introducing analytical skills necessary for understanding religious traditions, beliefs, practices and communities of several religious traditions of the world. Credit is awarded for only REL 200 or 100. Prerequisite: ENG 101 or 105.

General Studies: LHU/G

REL 201 Religion and the Modern World. (3)

once a year
Introduction to the nature and role of religious beliefs and practices, including the views of individuals and societies with particular attention to the modern world. Prerequisite: ENG 111
General Studies L/HU

REL 202 Religion and Popular Culture. (3)

once a year
Explores various interactions between religion and the popular media, including news, advertising, television, and the performing arts. Lecture/discussion.
General Studies HU C

REL 203 Saints and Sinners. Explorations in Sacred Biography. (3)

not regularly offered
Comparison of the role of biography as a religious statement with the process of categorizing people as saints or heretics. Lecture/discussion.
General Studies H H

REL 205 Living and Dying. (3)

not regularly offered
Ways that religions have understood bodily existence, death, and the passing of generations. Examines traditions through the words of lecturers. Discussion.
General Studies HU

REL 210 Introduction to Judaism. (3)

once a year
Beliefs, ceremonies, festivals, and institutions of Judaism, including the contemporary era. Assumes previous knowledge of Judaism. Prerequisite: ENG 111 or 105.
General Studies L/HU H

REL 225 African American Religion. (3)

not regularly offered
Introduction to the story and development of the African American religious tradition. Lectures, discussion, and AFH 225. Credits awarded by AFH 25 or REL 25.
General Studies HU C

REL 240 Introduction to Southeast Asia. (3)

fall
Interdisciplinary introduction to the cultures, religions, politics, and geography of Southeast Asia. Lectures, discussion, and AFH 240. Credits awarded by AFH 24 or REL 24.
General Studies G

REL 260 Introduction to Islam. (3)

spring
Examines Islamic beliefs, practices, and institutions. Assumes previous knowledge of Islam. Lecture/discussion. Credits awarded by HUM 260 or REL 260.
General Studies HU G

REL 270 Introduction to Christianity. (3)

once a year
Beliefs, ceremonies, festivals, and institutions of Christianity, including the contemporary era. Assumes previous knowledge of Christianity. Lecture/discussion.
General Studies HU

REL 301 Comparative Mysticism. (3)

once a year
Comparative examination of Eastern and Western mystical traditions from antiquity to the present. Lecture/discussion. Prerequisite: REL 100.
General Studies HU

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

fall and spring
Ritual, symbol, and myth as types of religious experience with examples selected from the non-terrestrial religions of the world.
General Studies L/HU

REL 310 Western Religious Traditions. (3)

fall and spring
Religious traditions of Judaism, Christianity, and Islam, comparing the traditions in their historical and contemporary contexts. Lecture/discussion.
General Studies HU H

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

once a year
Narrative content of the Hebrew Bible, including the historical and literary contexts. Lecture/discussion.
General Studies L/H H

REL 317 Introduction to Rabbinic Judaism. (3)

not regularly offered
History and development of the Halakha and the institution of the rabbinic tradition.
General Studies HU H

REL 318 Contemporary American Jewish Identity. (3)

spring
Analysis of the complexity and diversity of the contemporary American Jewish community. Includes a discussion of the role of the Jewish community in the United States. Credits awarded by REL 318 or SOC 37.

REL 320 American Religious Traditions. (3)

fall and spring
Examines the formation, development, and transformation of American religious traditions, including the religious African American and the American Evangelical.
General Studies L/HU C H

REL 321 Religion in America. (3)

fall and spring
Introduction to the American religious tradition, including the historical, cultural, and social contexts. Lecture/discussion.
General Studies HU C H

REL 322 Malcolm and Martin. (3)

not regularly offered
Examines and contrasts the lives, legacies, and legacies of Malcolm X and Martin Luther King Jr. Credits awarded by AFH 322 or REL 322.
General Studies H C

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

not regularly offered
Examines the experiences, lives, and contributions of African American religious figures. Includes a discussion of the role of African American religion in the United States. Credits awarded by AFH 323 or REL 323.
General Studies H

REL 324 Spirituals and the Blues. (3)

spring
Midwestern exploration of the African American religious and cultural traditions. Includes a discussion of the role of spirituals and the blues in the African American tradition.
General Studies HU

REL 330 Native American Religious Traditions. (3)

once a year
Presentation of the diverse religious traditions of the Native American tribes. Includes a discussion of the role of Native American religion in the United States.
General Studies H C

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

once a year
Review of the Native American religious traditions, including the historical and cultural contexts. Includes a discussion of the role of Native American religion in the United States.
General Studies L/HU C H

REL 332 South American Indian Religions. (3)

not regularly offered
Introduction to the sacred traditions, ceremonies, and beliefs of Native South American peoples. Includes a discussion of the historical and cultural contexts.
General Studies H G

NOTE: For the General Studies requirement courses and degrees such as L/SQ/C and H, see General Studies page 8. For graduation requirements see University Graduation Requirement page 74. For a comparison of additional non-business courses offered but not listed in this catalog see classification course page 51.

REL 344 Religion and Values in Japanese Life. (3)*once a year*

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

REL 345 Asian Religious Traditions. (3)*once a year*

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)*once a year*

Studies diverse forms of Hinduism through its institutions, literature, folkore, art, and architecture.
General Studies: L/HU, G, H

REL 351 Buddhism. (3)*once a year*

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

REL 355 Japanese Cities and Cultures to 1800. (3)*once a year*

Relations among ideas and theory, visual and performing arts of the ancient aristocracy, medieval samurai, and early modern townspeople. Cross-listed as HUM 310. Credit is allowed for only HUM 310 or REL 355.

*General Studies: L/HU, H***REL 365 Islamic Civilization. (3)***fall*

Global historical survey of Islamic cultures and societies up to the modern period. Lecture/discussion.
General Studies: HU, H

REL 366 Islam in the Modern World. (3)*spring*

Examines the worldwide transformations of Islam, religion, cultures and societies in the modern period. Lecture/discussion.
General Studies: HU, G, H

REL 371 New Testament. (3)*once a year*

Origins and literature of early Christian communities. Historical investigations of the types of oral and written tradition in the New Testament.
General Studies: HU

REL 372 Formation of the Christian Tradition. (3)*once a year*

Origins, development and expansion of Christianity: 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)***spring*

Studies the legal, social, and cultural status of Jewish women in various historical and contemporary societies. Cross-listed as WST 372. Credit is allowed for only REL 373 or WST 372.

REL 374 Witchcraft and Heresy in Europe. (3)*not regularly offered*

Background, origins and development of the Inquisition: persecution of women and marginalized groups. Cross-listed as HST 361. Credit is awarded for only HST 361 or REL 374. Prerequisite: upper division standing or instructor approval.

*General Studies: L, H***REL 377 Religion in Russia. (3)***not regularly offered*

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)***not regularly offered*

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)*once a year*

Manner in which human religiousness relates to social concerns, e.g. sexuality, the environment, bioethics, issues and violence.
General Studies: L, HU

REL 382 Religion, Magic, and Science. (3)*once a year*

Relationship and conflict between religion, magic and science in the West from antiquity to the present. Lecture/discussion.
General Studies: L/HU

REL 383 Origins, Evolution, and Creation. (3)*not regularly offered*

Examines scientific mythic and religious ideas relating to origins, particularly human. Place of evolutionism and scientific creationism in American culture. Lecture/discussion. Cross-listed as BIO 344, HPS 311, HUM 371. Credit is allowed for only BIO 344 or HPS 311 or HUM 371 or REL 383.

REL 385 Contemporary Western Religious Thought. (3)*not regularly offered*

Introduction to contemporary Jewish and Christian thought. Topics include religion and politics, problem of evil, interpretations of God and feminist theology.
General Studies: L/HU

REL 386 America and the Holocaust. (3)*fall*

Analyzes the historical and sociopolitical factors that shaped U.S. policy decisions regarding Germany's assault on Europe's Jews.

REL 390 Women and Religion. (3)*fall and spring*

Role of women in several organized religions and religious acts, including a study of myth and symbols as they are used to establish "mantine" and enforce sex-roles within specific religions.

*General Studies: HU, G***REL 405 Problems in Religious Studies. (3)***fall and spring*

Selected topics in religious studies involves 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)*not regularly offered*

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)***not regularly offered*

Examines some of the esoteric core of Judaism. Studies movements and literature such as Hasidism and Kabbalah.

*General Studies: HU***REL 420 Religion in American Life and Thought. (3)***not regularly offered*

Influence of religion on American society, culture and ideas; the distinctive character of religion in America. Prerequisite: REL 320 or 321 or its equivalent.

*General Studies: L/HU***REL 426 American Preachers and Preaching: The Sermon in America. (3)***not regularly offered*

Life and work of notable American preachers. Emergence of the preacher as representative of American religion. Prerequisite: REL 320 or 321 or its equivalent.

*General Studies: L/HU***REL 427 American Religious Thought. (3)***not regularly offered*

Thought of representative American religious thinkers, e.g. Jonathan Edwards, William E. Channing, Horace Bushnell, and Reinhold Niebuhr. Prerequisite: REL 320 or 321 or its equivalent.

*General Studies: HU, H***REL 444 Religion in Japan. (3)***once a year*

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)

not regularly offered
Issues in the interpretation and understanding of Islamic texts, history, society, culture, and rituals. Prerequisites: both REL 365 and Religion Studies major or on instructor approval.
General Studies: HU, G

REL 470 Religion in the Middle Ages. (3)

not regularly offered
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)

not regularly offered
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)

once a year
Explores the nature and role of religion in international politics in the modern period. Lecture/discussion.
General Studies: G

REL 483 Religion and Science. (3)

spring
Investigates the correlation between science and religion as an interdisciplinary study from a historical perspective. Readings from lecture/discussion. Prerequisite: junior or standing on instructor approval.

REL 486 Modern Critics of Religion. (3)

not regularly offered
Major theories and critiques of religion among modern social philosophers and religious thinkers.
General Studies: HU

REL 494 Special Topics in Religious Studies. (3)

fall and spring
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)

not regularly offered
For students with a major or minor emphasis in Religious Studies.

REL 499 Individualized Instruction. (1-3)

fall and spring

REL 501 Research Methods in Religious Studies. (3)

fall
Explores 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)

spring
Explores the major themes and methods in the study of religion with primary focus on contemporary texts. Lecture/discussion.

REL 591 Seminar. (3)

fall and spring
Topics on methodological issues in the study of religion. Prerequisite: Religious Studies graduate student or instructor approval.

REL 592 Research. (1-12)

fall and spring

REL 598 Special Topics. (1-4)

fall and spring
May be repeated for credit. Possible topics:

- a) Christianity (3)
- b) Islam (3)
- c) Judaism (3)
- d) Native American Religion (3)
- e) Problems in Religious Studies (3)
- (f) Religion in America (3)
- (g) Religion in East Asia (3)
- (h) Religion in South and Southeast Asia (3)
- i) Study of Religion: Comparative Religion (3)
- (j) Western Religious Thought/Ethics (3)

Department of Sociology

Verna M. Keith

Chair

(SS 321) 480/965-3546

www.asu.edu/cls/sociology

PROFESSORS

BOLIN, COBAS, GORDON, HACKETT, KRONENFELD, KULS, LANER, NAGASAWA, THOMAS, WEITZ

ASSOCIATE PROFESSORS

BENNETT, BLAIR, HARLAN, JACOBSON, KEITH, MILLER-LOESS, QIAN, SULLIVAN

ASSISTANT PROFESSORS

AGADJANIAN, GLICK, PADILLA

SENIOR LECTURER

FINE

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 101 Introductory Sociology <i>SB</i>	3
or SOC 301 Principles of Sociology <i>SB</i> (3)	
SOC 390 Social Statistics I <i>CS</i>	3
SOC 391 Sociological Research <i>SB</i>	3
SOC 483 History of Social Thought <i>L/SB</i>	3
or SOC 485 Sociology of Knowledge <i>L/SB</i> (3)	
or SOC 486 Contemporary Theory <i>SB</i> (3)	
Total	12

Sociology majors may complete the remaining 18 required hours through selecting one of two options. For a general sociology degree, students must choose six courses that sample at least three of the seven sociology content areas:

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

If majors desire a more focused preparation in a specialized area, they may complete the remaining 18 hours in one of five focus areas: family issues, urban issues, diversity issues, work/organizational issues, and health issues. Students choosing this option must complete two required

NOTE: For the General Studies requirement courses, and codes (such as L, SQ, C, and H) see "General Studies" page 78. For graduation requirements see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses" page 51.

focus area courses and select the remaining four courses from a list of optional courses within that focus area. SOC 484 Internships are available within the focus area option for those who qualify.

Information concerning the two options for fulfilling major requirements is available in the Department of Sociology office in SS 321, 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 <i>SB</i>	3
or SOC 301 Principles of Sociology <i>SB</i> (3)	
SOC 391 Sociological Research <i>SB</i>	3
or SOC 483 History of Social Thought <i>L/SB</i> (3)	
or SOC 485 Sociology of Knowledge <i>L/SB</i> (3)	
or SOC 486 Contemporary Theory <i>SB</i> (3)	
Total	6

The remaining four courses consist of sociology electives.



Marilyn Bloom, research specialist in microbiology, displays her collection of insects.

T. M. Trumble photo

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 and Ethnic Relations or SOC 474 African-Americans in Modern Society are required. The remaining 18 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 six 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.

GRADUATE PROGRAMS

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

SOCIOLOGY (SOC)

SOC 101 Introductory Sociology. (3)

fall, spring, summer

Fundamentals of sociology, organization of human groups and society, processes of interaction, and social change. Credit is allowed for only SOC 101 or 301. 2 hours lecture, 1 hour discussion.

General Studies: SB

SOC 301 Principles of Sociology. (3)

fall, spring, summer

Intensive and critical analysis of the concepts of sociology. Credit is allowed for only SOC 301 or 101.

General Studies: SB

SOC 312 Sociology of Adolescence. (3)

fall, spring, summer

Cultural values and the social processes that help explain the development of the phenomenon of modern adolescence, including investigation of adolescent subcultures and cross-cultural references.

Prerequisite: SOC 101 or 301 or instructor approval.

General Studies: SB

SOC 315 Courtship and Marriage. (3)

fall, spring, summer

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)

summer

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)

fall and spring

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)*fa a d spr ng*

Analyzes human organization response to population growth technological change and environmental stressors on both a national and global scale Prerequisite SOC 101 or 301 or instructor approval
General Studies SB G

SOC 332 Urban Sociology. (3)*fa and spr ng*

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

SOC 333 Population. (3)*fa and spr ng*

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

SOC 334 Technology and Society. (3)*fa l*

Development of technology in relation to society work science the environment public health, and cultural values related to social change Lecture/discussion Prerequisite SOC 101 or 301 or instructor approval

SOC 340 The Sociology of Deviance. (3)*fa l spr ng summer*

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)*fa spr ng summer*

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

SOC 352 Social Change. (3)*not regularly offered*

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)*fa and spr ng*

Interaction patterns between the sociocultural order and individual socialization processes norms roles and statuses collective behavior Prerequisite SOC 101 or 301
General Studies SB

SOC 361 Variant Sexuality. (3)*fa*

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

SOC 363 Men and Masculinity. (3)*not regularly offered*

Sociological analysis of how masculine identity defined negated and variously constructed depending upon class ethnicity age and sexual orientation Prerequisites SOC 301 WST 100 or 300
General Studies SB

SOC 365 The Sociology of Mass Communication. (3)*fa and spr ng*

Sociological explanation 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)*not regularly offered*

Examines routine everyday behavior as it relates to problems of social order control, change identity, and relationships Prerequisite SOC 101 or 301 or instructor approval

SOC 370 Contemporary American Jewish Identities. (3)*spr ng*

Analyzes the complexity and diversity of the contemporary American Jewish community in religious and secular affairs Lecture/discussion Cross-listed as REL 318 Credit is awarded for only REL 318 or SOC 370

SOC 390 Social Statistics I. (3)*fa spr ng summer*

Descriptive and inferential statistical methods for analysis of social data Computer applications Prerequisites SOC 101 or 301
General Studies MA course
General Studies CS

SOC 391 Sociological Research. (3)*fa spr ng summer*

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 instructor approval
General Studies SB

SOC 415 The Family. (3)*fa spr ng summer*

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)*spr ng*

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

SOC 417 Family Violence. (3)*fa and spr ng*

Current research and theories about domestic violence including child maltreatment spouse aggression, and courtship violence Prerequisite SOC 101 or 301 or instructor approval
General Studies SB

SOC 418 Aging and the Life Course. (3)*fa l and spr ng*

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

SOC 420 Sociology of Religion. (3)*not regularly offered*

Interaction of culture, society and religion religion and social stratification religious, economic, and political institutions social change and religion Emphasis on American society and institutions Prerequisites both ASB 102 or SOC 101 or 301 and an additional 3 hours in sociology or only instructor approval
General Studies L SB

SOC 421 Education and Society. (3)*fa*

Uses contemporary sociological perspectives to examine effects of schools and schooling on individuals and society Prerequisite SOC 101 or 301 or instructor approval
General Studies SB

SOC 422 Sociology of Complex Organizations. (3)*spr ng*

Sociological study 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 L/SB

SOC 423 Social Class and Stratification. (3)*spr ng*

Classical and contemporary theories about who gets what and why Examines social and economic inequalities by class, gender and race ethnicity Lecture/discussion Prerequisites both SOC 101 or 301 and an additional 3 hours in sociology or only instructor approval
General Studies L/SB

NOTE: For the General Studies requirement course and codes such as L SQ C and H), see "General Studies" page 78 For graduation requirements see University Graduation Requirements, page 74 For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses" page 51

SOC 424 Women and Health. (3)*spring in odd years*

Women as health care workers and issues of health care and health care for women Prerequisite: SOC 101 or 301 or instructor approval.

*General Studies L/SB***SOC 427 Sociology of Health and Illness. (3)***fall and spring*

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 L/SB***SOC 429 Sociology of Law. (3)***not regularly offered*

Examines law as an institution; its general operations and consequences Emphasis on contemporary legal issues and problems Prerequisite: SOC 101 or 301

*General Studies SB***SOC 433 Demographic Methods. (3)***spring*

Science of population analysis problems in measurements of size composition, and changes in population Prerequisite: SOC 101 or 301.

*General Studies SB***SOC 446 Sociology of Crime. (3)***not regularly offered*

Process of criminalization exploring the behavior of the definers of crime, and the behavior of those defined as criminals Prerequisites both SOC 101 or 301 and 340 or on y instructor approval.

*General Studies SB***SOC 448 Epidemics and Society. (3)***fall*

Provides a perspective on how epidemics occur, are perceived in society and affect it Prerequisite: SOC 101 or 301 or instructor approval.

SOC 451 Comparative Sociology. (3)*not regularly offered*

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)***not regularly offered*

Surveys 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)***not regularly offered*

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)***spring*

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 L/SB, C***SOC 470 Racial and Ethnic Relations. (3)***fall, spring, summer*

Problems of minorities in the United States and in other racially and ethnically heterogeneous societies Evaluates 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, C***SOC 474 African Americans in Modern Society. (3)***spring*

Social and cultural heritage of black Americans achievements and current trends Lecture discussion Prerequisite: SOC 101 or 301 or instructor approval

*General Studies L/SB, C***SOC 483 History of Social Thought. (3)***fall, spring, summer*

Social thought in human culture Background of modern sociology Prerequisite: SOC 101 or 301.

*General Studies L/SB***SOC 484 Internship. (1-12)***fall and spring*

See Department of Sociology advisor.

SOC 485 Sociology of Knowledge. (3)*not regularly offered*

Relationship between social conditions and the development of knowledge in modern society Prerequisite: SOC 101 or 301 or instructor approval.

*General Studies L/SB***SOC 486 Contemporary Theory. (3)***not regularly offered*

Contemporary issues and crises in social theory with major focus on particular theorists. sociological 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 500 Research Methods. (1-12)***not regularly offered***SOC 501 Practicum in Survey Research. (3)***fall and spring*

Research practicum in survey fieldwork analysis, and reporting in the Phoenix Area Study Prerequisite: SOC 391 or its equivalent

SOC 502 Practicum in Survey Research. (3)*fall and spring*

Continuation of SOC 501 Prerequisite: SOC 501

SOC 503 Sociology as a Profession I. (1)*fall*

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)*spring*

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)*fall and summer*

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

SOC 507 Social Statistics IIA: Categorical Data Analysis. (3)*fall*

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

SOC 508 Social Statistics IIB: Structural Equation Analysis. (3)*spring*

Teaches structural equation modeling 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 IIC: Event History Analysis. (3)*fall and spring*

Proportional hazards models and other methods for analyzing longitudinal data and establishing hazard rates of events for experimental variables Prerequisite: SOC 505 (or its equivalent)

SOC 515 Studies of the Family. (3)*spring*

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

SOC 585 Development of Sociology. (3)*fall*

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

SOC 586 Contemporary Sociological Theory. (3)*spring*

Analyses major theories, including structural functionalist, conflict, social exchange, symbolic interaction and role theory Prerequisite: instructor approval

SOC 587 Contemporary Issues in Sociology. (3)

spring
Philosophy of social science. Contemporary issues in sociology: the theory and methods. Prerequisite: instructor approval.

SOC 588 Methodological Issues in Sociology. (3)

spring
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.

SOC 599 Thesis (1-12)

not regularly offered

Department of Speech and Hearing Science

David Ingram
Chair
(LL 173A) 480/965-2374
www.asu.edu/clas/shs

PROFESSORS

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

ASSOCIATE PROFESSORS

LISS SINEX

ASSISTANT PROFESSORS

AZUMA GRAY, SHARMA

CLINICAL PROFESSOR

MATHY

CLINICAL ASSOCIATE PROFESSORS

C. BACON, BROWN, MINTZ, REMSON

CLINICAL ASSISTANT PROFESSORS

K. INGRAM, WEXLER

LECTURERS

BARTO 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
Choose two from the courses below	6
SHS 431 Developmental Speech Disorders (3)	
SHS 470 Developmental Language Disorders (3)	
SHS 485 Acquired Speech and Language Disorders (3)	
SHS 450 Observation	1

SHS 465 Speech and Language Acquisition <i>SB</i>	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>SG</i>	4
MAT 170 Precalculus <i>MA</i>	3
PGS 101 Introduction to Psychology <i>SB</i>	3
PHY 101 Introduction to Physics <i>SQ</i>	4
PSY 230 Introduction to Statistics <i>CS</i>	3
Total	17

PSY 290 Research Methods (4) is strongly recommended.

MINOR IN SPEECH AND HEARING SCIENCE

The minor in Speech and Hearing Science consists of 24 semester hours with the following classes required:

SHS 105 Introduction to Human Communication Disorders	3
SHS 250 Introduction to Phonetics	3
SHS 310 Anatomical and Physiological Bases of Speech	3
SHS 311 Physical and Physiological Bases of Hearing	3
Choose one from the courses below	3
SHS 367 Language Science <i>SB</i> (3)	
SHS 375 Speech Science (3)	
SHS 376 Psychoacoustics (3)	

The remainder of the 24 credits must come from the following courses:

SHS 320 Facilitating Speech and Language Development in Early Childhood	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 465 Speech and Language Acquisition <i>SB</i>	3
SHS 470 Developmental Language Disorders	3
SHS 485 Acquired Speech and Language Disorders	3
SHS 496 Aural Rehabilitation	3

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. See the *Graduate Catalog* for requirements.

SPEECH AND HEARING SCIENCE (SHS)

SHS 101 American Sign Language I. (4)

fall and spring
Basic receptive-expressive conversational skills, basic grammar and syntax rules. Orientation to deafness and deaf culture. Lecture/di-practice/lab.

SHS 102 American Sign Language II. (4)

fall and spring
Further development of receptive-expressive conversational skills in ASL finger spelling. Continued experiential deaf culture. Lecture, drill, practice/lab. Prerequisite: SHS 101.

NOTE: For the General Studies requirement courses and codes (such as L, SQ, C and H) see "General Studies" page 78. For graduation requirements see "University Graduation Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses" page 51.

SHS 105 Introduction to Human Communication Disorders (3)*fall and spring*

Introduction to hearing, language, and speech problems in children and adults. Lecture, demonstration.

SHS 201 American Sign Language III. (4)*fall and spring*

Continued development of fluency in ASL with emphasis on more abstract concepts and the ability to narrate events. Lecture, discussion, dramatization. Prerequisite: with a grade of "C" or higher SHS 102.

SHS 202 American Sign Language IV. (4)*fall and spring*

Further development of fluency in ASL with emphasis on literature, folklore, and signing narratives with multiple characters. Lecture, discussion, dramatization. Prerequisite: with a grade of "C" or higher SHS 201.

SHS 250 Introduction to Phonetics. (3)*fall*

Introduction to English phonetics with emphasis on phonetic transcription, articulation, phonology, and disorders of speech.

SHS 310 Anatomical and Physiological Bases of Speech. (3)*fall*

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)*fall*

Studies the physical characteristics of sound and 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)*fall and spring*

Speech and language development and strategies for facilitating communication skills in early childhood educational settings.

SHS 367 Language Science. (3)*fall*

Normative aspects and integration of language structure, comprehension, and production in children and adults. *General Studies: SB*

SHS 375 Speech Science. (3)*spring*

Normative aspects of speech, hearing, and language. Prerequisites: SHS 310, 311.

SHS 376 Psychoacoustics. (3)*spring*

Introduction to acoustic cochlear anatomy and physiology and the perception of sound. Prerequisite: SHS 311, instructor approval.

SHS 384 Hearing Disorders. (3)*fall*

Pathologies of the ear and associated peripheral and central hearing disorders, characteristics, management, and effects in communication. Prerequisite: SHS 311, 376.

SHS 401 Introduction to Audiologic Evaluation. (3)*fall*

Measurement of the basic audiologic test battery, including audiograms, immittance, masking, and speech recognition. Prerequisites: SHS 311 and 376 and 384, or the equivalent.

SHS 402 Modifying Communicative Behavior. (3)*fall*

Principles and techniques of modifying speech and language behavior. Prerequisite: SHS 250, or the equivalent.

SHS 431 Developmental Speech Disorders. (3)*fall*

Introduction to the nature of articulation, fluency, resonance, and vocal disorders in childhood. Prerequisites: SHS 250 and 310, or the equivalent.

SHS 450 Observation. (1)*fall and spring*

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)*spring*

Speech and language development in the normal child. Prerequisite: SHS 367, or the equivalent.

*General Studies: SB***SHS 470 Developmental Language Disorders. (3)***fall*

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)*fall*

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)*spring*

Introduction to acquired speech and language disorders across the lifespan. Prerequisites: SHS 250, 310.

SHS 494 Special Topics. (1-4)*fall and spring*

May be repeated for credit. Possible topics:

a. Hearing Disorders 3

b. Research 3

c. Speech and Language Disorders 3

Prerequisite: instructor approval.

SHS 496 Aural Rehabilitation. (3)*spring*

Approaches to aural rehabilitation for children and adults. Introduction to educational audiology and assistive listening devices. Prerequisites: SHS 375 and 376 and 401, or the equivalent.

SHS 501 Introduction to Audiologic Evaluation. (3)*fall*

Measurement of the basic audiologic test battery, including audiograms, immittance, masking, and speech recognition. Prerequisites: SHS 311 and 376 and 384, or the equivalent.

SHS 502 Differential Diagnosis for Audiology. (4)*fall*

Differential diagnosis of cochlear and retrocochlear disorders, and assessment of vestibular system. 3 hours lecture, 2 hours lab. Prerequisite: SHS 401 or 501, or the equivalent.

SHS 504 Hearing Aids. (4)*spring*

Operational application and fitting of a hearing aid. 3 hours lecture, 2 hours lab. Prerequisite: SHS 401 or 501, or the equivalent.

SHS 508 Pediatric Audiology. (3)*fall*

Audiologic assessment, screening, and development considerations for infants and young children. Prerequisite: SHS 401 or 501, or the equivalent.

SHS 511 Auditory Perception by the Hearing Impaired. (3)*fall*

Study how and why sensorineural hearing assess the perception of sound. Prerequisite: SHS 376, instructor approval.

SHS 512 Medical Aspects of Speech and Hearing. (3)*fall*

Interaction of histological, physiological, and pathological processes and test results in speech and hearing abnormalities.

SHS 515 Audiologic Instrumentation and Calibration. (3)*fall*

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

SHS 516 Auditory-Evoked Potentials. (4)*spring*

Continuation of SHS 502, including electrophysiological assessment of peripheral and central auditory nervous system. Lecture/lab. Prerequisite: SHS 502.

SHS 545 Speech Perception by the Hearing Impaired. (3)*fall*

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)*spring*

Studies the types of otoacoustic emissions, the theoretical implications, and application to clinical diagnostics. Lecture/discussion/lab. Prerequisite: SHS 376 or instructor approval.

SHS 555 Cochlear Implants. (3)*spring*

Current status of cochlear implant research and development Prerequisite: SHS 544 or SHS 545 or instructor approval

SHS 565 Speech and Language Acquisition (3)*spring*

Speech and language development in the normal child Prerequisite: SHS 367 or its equivalent

SHS 566 Psychology of Language. (3)*spring*

Psycholinguistic study of the production and comprehension of language across the lifespan

SHS 567 Neural Bases of Communication Disorders (3)*fa*

Neuroscience and its application to matters of normal and disordered communication Prerequisite: SHS 311 or its equivalent

SHS 570 Communication Disorders and Multicultural Populations. (3)*spring*

Studies racial and ethnic bases and the communication behaviors and disorders in various cultural groups.

SHS 571 Augmentative Communication and Language Programming. (3)*spring*

Focuses on individuals across the age span who are unable to communicate with spoken language. Lecture/lab

SHS 572 Language Assessment and Intervention in Early Childhood. (3)*fa*

Focuses on the birth to 5 year old population who are at risk for who have communication and language disorders Prerequisite: SHS 470 or its equivalent

SHS 573 Language Assessment and Intervention with School-Age Populations. (3)*spring*

Focuses on later language development linguistic demands of academic settings, assessment and intervention strategies for children and adolescents Prerequisite: SHS 565 or its equivalent

SHS 574 Fluency Disorders and Treatment. (3)*fa*

Presents phenomena etiology assessment, and theories of stuttering followed by various treatment procedures for children and adults who stutter Prerequisite: SHS 431 or its equivalent

SHS 575 Aphasia and Related Neurogenic Language Disorders. (3)*fa*

Assessment and treatment of acquired neurogenic communication Prerequisite: SHS 567

SHS 576 Neuromotor Speech Disorders. (3)*spring*

Evaluation and treatment of the dysarthrias and apraxia of speech Emphasizes acquired adult disorders

SHS 577 Craniofacial Disorders of Communication. (3)*summer*

Communication disorders related to anomalies of the craniofacial structures including clefting facial palsy and palate Prerequisite: SHS 310 or its equivalent

SHS 578 Disorders of Voice. (3)*spring*

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

SHS 579 Feeding and Swallowing Disorders Across the Lifespan. (3)*fa*

Focuses on individuals across the age span who have feeding and/or swallowing disorders Present assessment and treatment strategies Prerequisite: SHS 567

SHS 580 Clinical Practicum. (1-6)*fa spring summer*

Supervised practicum in audiology speech language pathology for staff and 3 hours of direct contact per week per hour of credit May be repeated for credit Prerequisite: instructor approval, student must not have previous admission status

SHS 581 Right Hemisphere Syndrome, Traumatic Brain Injury, and Dementia. (3)*spring*

Study the natural 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)*spring*

Procedures for assessing speech/language disorders in children and adults 3 hour lecture 2 hours lab Prerequisite: SHS 250 and 310 and 465 and 567 (or the equivalent)

SHS 584 Internship. (1-6)*fa spring summer*

Off campus directed experiences in audiology or speech language pathology and communication impairments accompanying right hemisphere damage TB and dementia Prerequisite: SHS 580 student must consult with coordinator before registration

SHS 585 Articulation and Phonology: Assessment and Intervention. (3)*spring*

Assessment and treatment of developmental articulation and phonology disorders Prerequisite: SHS 250 and 310 or the equivalent

SHS 591 Seminar. (1-12)*fa spring summer*

Possible topics

a Central Auditory Mechanisms and Learning Impairment 3

spring

b Cognitive Linguistic Interactions in Adult Neuropsychological Disorders 3

fa

c Fundamentals of Verbal Evaluation 3

fa

d Research Methods in Communication Disorders 3

*spring***SHS 596 Aural Rehabilitation. (3)***spring*

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

SHS 792 Research (1-12)*not regularly offered***SHS 799 Dissertation. (1-15)***not regularly offered*

NOTE: For the General Studies requirement courses, and code (such as L, SQ, C, and H), see "General Studies" page 78. For graduation requirements, see "University Graduation Requirements" page 74. For an explanation of additional non-business courses offered but not listed in this catalog, see "Classification of Courses," page 51.

Women's Studies Program

Kathleen J. Ferraro
Director
 (ECA 209) 480/965-2358
www.asu.edu/clas/womens_studies

CORE FACULTY

Professors: Kobitz Rothschild,
 Associate Professors: Ferraro Scheiner
 Assistant Professors: Anderson Leong Lind

AFFILIATED FACULTY

Anthropology

Professors: Brandt Koss Chono

Architecture

Assistant Professor: Ewan

Art

Professors Code, Fahlman Magenta
 Associate Professor Schelf

Art History

Associate Professor Wohlfahl

Chicana and Chicano Studies

Professor Ruiz
 Assistant Professor Gutierrez

Curriculum and Instruction

Professors: Ede sky Guzzett

English

Professors: Adams, Crowley, Gutierrez Lightfoot
 Nilsen, Rhodes, Richard, Sensibar;
 Associate Professors Chancy DeLamotte Horan Morgan,
 Pritchard, Tohe
 Assistant Professors Thompson, Webb Peterson,
 Senior Lecturer Obermeier
 Lecturers: Heenan, Norton

Exercise and Wellness (ASU East)

Assistant Professor Swan

Exercise Science and Physical Education

Professor Emeritus: Weiss

Family and Human Development

Professor: Marti

Geography

Professor Burns

History

Professors Fuchs, Giffen Lavrén Warncke
 Associate Professors Gray Guet Hendricks Stoner

Human Communication

Professors Carlson, Nakayama Valentne,
 Assistant Professors: Daviss, Martinez

Justice Studies

Professors: Jurk Romero, Zatz
 Assistant Professors: Adelman Bernstein Menjivar

Languages and Literatures

Professors Foster Losse
 Associate Professors: Pritchard Tompkins
 Assistant Professors: Cho, George Gruznska Rees,
 Assistant Research Professor Orlich

Management

Associate Professor Cook

Music

Professor Wiamson

Philosophy

Associate Professor: McGregor

Psychology

Regents' Professors Eisenberg, Russo
 Professor: Chassin

Associate Professor Saenz

Psychology in Education

Professors Bernstein Hackett, Kerr,
 Professors Emerit Mcsaac Wison
 Associate Professor Moore

Recreation Management and Tourism

Professor Alison

Religious Studies

Professor Feldhaus
 Associate Professor Fessenden

Social Work

Professors Coudrou Segal
 Associate Professors Brzuzy Gerdes
 Assistant Professor Hurdle

Sociology

Professors Gordon, Kronenfeld Kus, Laner, Weitz
 Associate Professors Benninger-Loessi,
 Assistant Professor Agadjanian

Theatre

Professor Knapp

Women's Studies (ASU West)

Professor Stage

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.

Women's Studies provides our students with an intensive interdisciplinary liberal arts education that enables them to write well, think critically, and analyze problems effectively. Our students take a variety of courses, including a capstone senior requirement on original research and writing, and an internship that helps them prepare for life after college. Original undergraduate research is encouraged, and some courses involve students in studying community problems and formulating policy solutions.

The B.A. degree in Women's Studies consists of 45 semester hours with a grade of "C" or higher, 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.

All Women's Studies majors must compile a portfolio to leave on file in the Women's Studies Program office upon graduation.

Required Courses. Students must complete the following courses:

WST 100 Women and Society <i>SB, C</i>	3
or WST 300 Women in Contemporary Society <i>SB, C</i> (3)	
WST 377 Creation of Feminist Consciousness <i>L, C</i>	3
WST 378 Contemporary Feminist Theory <i>L, C</i>	3
WST 484 Internship	3
WST 498 PS: Theoretical Issues in Women's Studies <i>L</i>	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.

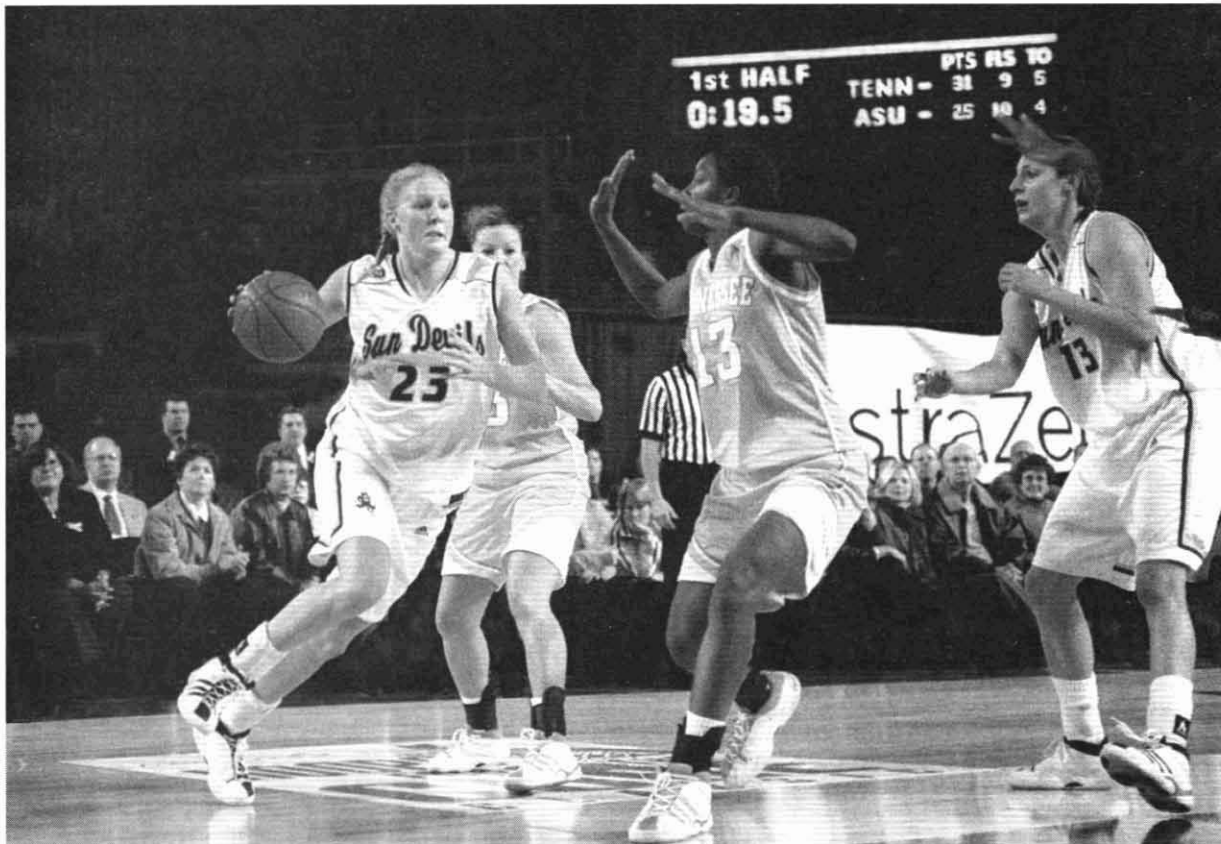
Electives in Closely Related Fields. Majors must complete 12 hours of courses in fields closely related to women's studies. These courses may be used to satisfy university General Studies requirements, and graduation requirements in the College of Liberal Arts and Sciences. WST and WSH courses may not be used as related fields.

MINOR IN WOMEN'S STUDIES

The Women's Studies minor consists of 18 semester hours, 12 of which must be in the upper division. The following courses are required:

WST 100 Women and Society <i>SB, C</i>	3
or WST 300 Women in Contemporary Society <i>SB, C</i> (3)	
WST 377 Creation of Feminist Consciousness <i>L, C</i>	3
or WST 378 Contemporary Feminist Theory <i>L, C</i> (3)	
Total	6

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



The ASU and University of Tennessee women's basketball teams faced-off in Bank One Ballpark, in downtown Phoenix, in the first-ever outdoor collegiate basketball game, raising money for women's breast cancer research.

Tim Trumble photo

NOTE: For the General Studies requirement, courses, and codes (such as L, SQ, C, and H), see "General Studies," page 78. For graduation requirements, see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 51.

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 18 semester hours, and is open to graduate as well as undergraduate students. Students pursuing a certificate must consult with the women's studies advisor. See "Women's Studies," page 327, 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 requirements for the major, minor, and certificate in Women's Studies is available each term in the program office, ECA 209.

WOMEN'S STUDIES HUMANITIES (WSH)

WSH 413 Lesbian Culture: Images and Realities. (3)

spring
Explores aspects of lesbian experience from sociological, psychological, historical, political, and literary/critical perspectives. Lecture/discussions. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: HU C

WSH 464 Voices and Visions. (3)

fall and spring
Explores the contributions of various women in the humanities. Topics vary from semester to semester. May be repeated for credit when topics vary. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: HU C

WSH 470 Women and Popular Culture. (3)

spring
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)

fall, spring, summer
Interdisciplinary introduction examining critical issues in women's studies. Credit awarded for only WST 100 or 300.
General Studies: SB C

WST 294 Special Topics. (1-4)

not regularly offered
Possible topics:
a. Women and Social Action
Fee

WST 300 Women in Contemporary Society. (3)

fall, spring, summer
Intensive interdisciplinary examination of such topics as gender roles, work education, sexuality, politics, health, and law. Credit awarded for only WST 300 or 100.
General Studies: SB C

WST 313 Women and Sexuality. (3)

fall and spring
Explores feminist theories about women's sexuality and the relationship of the theoretical and related research to women's experience. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: SB

WST 360 Women as Healers. (3)

spring
Examines the role of women as caregivers, healers, physical and mental, and nurses in different cultures and historical periods. Lecture/discussion.

WST 372 Women in Judaism. (3)

spring
Studies the legal, social, and cultural status of Jewish women in various historical and contemporary societies. Cross-listed as REL 373. Credit awarded only for REL 373 or WST 372.

WST 373 Latina/Chicana Issues. (3)

fall and spring
Examines the roles Mexican American, Chicana, and/or Latina migrant women play in history, society, and politics in the United States. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: SB C

WST 375 Women and Social Change. (3)

fall and spring
Combines research and theory on a contemporary social problem with a community-based experience focusing on women's social change initiative. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: SB C

WST 377 Creation of Feminist Consciousness. (3)

fall
Explores the development of feminist theory from its roots to 1960. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: L C

WST 378 Contemporary Feminist Theory. (3)

spring
Contemporary feminist theories and exploration of the intersection of gender, race, ethnicity, and class through critical analysis. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: L C

WST 380 Gender, Race, and Class. (3)

fall and spring
Explores cultural diversity, class, and gender issues in American society. Lecture/seminar analysis, paper, and writing. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: L/SB C

WST 457 Gender, Culture, and Development. (3)

fall and spring
Economic, cultural, and political contexts for understanding women's roles related to health, family, work, education, and politics in developing countries. Prerequisite: 6 hours of social science or instructor approval.
General Studies: L/SB G

WST 460 Women and the Body. (3)

fall and spring
Interdisciplinary look at how representation of woman as body permeates culture and affects woman's self-identity. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: SB C

WST 477 Women and Violence. (3)

fall
Global examination of forms of violence against women at the individual, national, and cultural levels and efforts to confront it. Lecture/discussion. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: SB C

WST 484 Internship. (1-3)

fall and spring
Practical experience to enhance the academic perspectives that emerge from women's studies instruction. Prerequisite: internship coordinator approval.

WST 498 PS: Theoretical Issues in Women's Studies. (3)

fall and spring
Reading and research on important theoretical issues in women's studies. Prerequisite: WST 100 or 300 or instructor approval.
General Studies: L

College of Nursing

Barbara Durand, Ed.D., Dean

www.asu.edu/nursing



Nursing student Mia Kilmartin Smitt (left), listens to the heartbeat of a child at the Community Services Health Clinic, as Collette Toronto, a nurse practitioner, supervises.

Dave Tevis photo

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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 practices, 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. provide the highest-quality health care to individuals, groups, and communities and who critically examine and effectively respond to the changing health care needs of society;
2. conduct research and creative activity that strengthen the knowledge base of the discipline, improve theory-based nursing practice, and benefit the health of individuals, groups, and communities; and
3. provide service to the community through a range of nursing activities with diverse populations in a variety of settings.

The continuing and extended education program facilitates lifelong learning by providing opportunities for registered nurses (RNs) to enhance 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 (B.S.N.) degree, a graduate program leading to an M.S. degree with preparation for advanced practice in nursing, and continuing and extended education opportunities for RNs, which include RN-B.S.N. and RN-B.S.N.-M.S. programs.

The college also participates with the University of Arizona in offering the Master of Public Health degree.

ADMISSION

Preprofessional Admission. Students are admitted into the College of Nursing as "premajor Nursing" students. Admission to ASU as a premajor Nursing student does not guarantee admission into the professional 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.

Premajor Nursing 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.

Transfer Credits. While the university accepts transfer credit from other accredited institutions, all transfer credit may not apply toward a 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 prerequisite courses and to apply to the professional program. The college may not accept transfer credit (especially science) completed more than 10 years before the date of application.

Professional Program Admission. Individuals interested in applying to the professional program must receive advising from a College of Nursing academic advisor and may be required to attend an application workshop. Contact the Student Services Office in the College of Nursing at 480-965-2987 for details. Students are eligible for consideration for admission to the professional program if they meet the following criteria:

1. regular admission to the College of Nursing at ASU Main as a premajor Nursing student,
2. good standing with ASU and the College of Nursing,
3. minimum prerequisite GPA of 2.75;
4. completion of designated prerequisite courses with an earned grade of "C" or higher in each course,
5. completion of all application materials;
6. submission of required health and immunization information;
7. a Test of English as a Foreign Language (TOEFL) score of 550 or higher, for international students, and
8. submission of 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 program are required to meet the following additional 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 health and immunization information;
4. eligible for class one fingerprint clearance card,
5. removal of all admission deficiencies, and
6. other required material.

Professional 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 program on the campus assigned upon admission.

Professional Program Transfer. Students requesting to transfer into the professional 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 within the past two years may apply for admission into the professional program. To be considered for admission to the professional program, transfer students must first be admitted to ASU as premajor Nursing students (see "Undergraduate Admissions," page 54) and must also meet all professional program admission requirements. To be considered for advanced standing in the professional program courses, petitions for each course must be completed by the student with accompanied course descriptions and syllabus materials and be approved by the College Standards Committee.

Admission of Registered Nurses (RNs). All RN students are admitted into the College of Nursing as premajor Nursing students. An RN must submit a photocopy 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. Alternatives are available to RNs to facilitate their progress in the program, including credit by examination and substitution of previously completed nursing courses for specified ASU nursing courses, and transfer of general education course work completed at other accredited colleges and universities. All RN students must consult with an advisor in planning their program of study. See "Professional Program Admission," page 456, for admission criteria into the B.S.N. professional program. Registered nurses are admitted into the RN B.S.N. program twice a year, in January and in August.

Additional admission criteria required for application to the RN B.S.N. M.S. program track include submission of

1. GRE scores
2. current resumé;
3. statement of career goals,
4. letters of reference;
5. interview;
6. minimum prerequisite GPA of 3.0, and
7. other required materials.

RNs are accepted into the RN B.S.N. M.S. program track once a year (in January).

Readmission to the Professional Program. Students who have not been in continuous enrollment must file a petition requesting readmission to the professional 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 455.

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 approved nursing program. Arizona

State law prohibits an individual convicted of a felony from applying for nursing licensure or certification until five years after the date of absolute discharge of the sentence. Application for, and passage of, the NCLEX RN is the sole responsibility of the student.

College Health Requirements. Students admitted/enrolled in the professional 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 program courses. These health policies include the following requirements:

1. proof of measles (rubeola), mumps, and rubella immunization (MMR);
2. proof of annual tuberculosis screening;
3. completed series of hepatitis B vaccine;
4. current American Heart Association Level C CPR Certification;
5. proof of tetanus, diphtheria immunization (TD);
6. proof of varicella (chicken pox) immunization, and
7. proof of negative drug screen.

An annual flu vaccine is recommended and other health information may also be required.

A Nursing student may not participate in any clinical experience without meeting these requirements.

Essential Functions. Students admitted to the professional program are 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 54, and "Immunization Requirements," page 60.

Professional Liability Insurance. It is highly recommended that students carry their own 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

While the College of Nursing provides academic advising, it is ultimately the responsibility of each student to fulfill academic and program requirements. Advisors are available by appointment in the College of Nursing Student Services Office. Visit NUR 108, or call 480 965 2987. 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, obtaining the necessary signatures or computer verifications required by the university, and following university procedures for matriculation.

Mandatory Advising. All premajor Nursing students are required to meet with an academic advisor before registering for each semester of classes. In general, all students are encouraged to meet with an advisor each semester. All students on probation are required to meet with an advisor to plan strategies for improving their academic standing.

Program of Study. Students following the curriculum requirements of the 1994–1996 or earlier catalog editions must file a program of study during the first semester of enrollment in the professional program and before registration for professional program Junior Two (JR2) level courses.

Declaration of Graduation. Students following the curriculum requirements of the 1996–1998 or later catalog editions must file a Declaration of Graduation form using the Degree Audit Reporting System during enrollment in the second semester of the professional program.

Student Employment. Each of the four semesters in the professional program is composed of 16 semester hours. Seven to eight of these semester hours reflect two to three days in practicum experience. The remaining eight semester hours reflect classroom hours requiring preparation and study. It is suggested that any additional activities or employment be kept at a minimum.

DEGREES

Nursing—B.S.N.

The completion of the curriculum leads to a Bachelor of Science in Nursing (B.S.N.) degree. 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 students with 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

NOTE: For the General Studies requirement courses and codes (such as L, SQ, C, and H), see General Studies page 78. For graduation requirements, see University Graduation Requirements, page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see Classification of Courses page 51.

1. combine theoretical knowledge from the sciences, humanities, and nursing as a base for critical thinking in professional nursing practice and develop an understanding of client, healthy environment, and nursing;
2. organize the nursing process to provide safe, competent, and effective nursing care using principle based communication, technical psychomotor, teaching management, and therapeutic skills;
3. design and generate comprehensive therapeutic nursing care in partnership with individuals, families, groups, and communities, including those who are culturally diverse and/or vulnerable;
4. generate their own professional practice that focuses on health promotion, health restoration, health maintenance, and illness care from a holistic perspective;
5. analyze and apply research findings to nursing practice and identify nursing research problems;
6. display values and behavior consistent with the culture of professional nursing;
7. display personal and leadership characteristics appropriate for professional nursing practice;
8. display 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. analyze current nursing and health care services and trends, and identify future health care needs.

Nursing—RN Programs

Courses have been designed to expand the knowledge base of the RN. Practice experiences in home health, community health, and leadership prepare RNs for roles on the cutting edge of health care. Programs of study are developed and implemented that reflect individual capabilities, prior educational learning experiences, and career goals of RNs. Faculty and academic advisors work with RN students to maximize learning experiences and plan the program that meets their unique needs and interests.

Two program tracks are available for RNs. The RN B.S.N. *only* and the RN B.S.N.-M.S. program tracks are structured to provide an accessible, accelerated, and predictable pathway through the program.

RN-B.S.N. only. The RN B.S.N. *only* program track offers RNs the opportunity to complete remaining degree requirements in one calendar year in a program featuring reasonable costs, predictable year-round course scheduling, reduced in-class time, and a variety of instructional delivery methods including Web-enhanced and Web-based courses. Satisfactory completion of all general education and nursing prerequisite courses with a grade of “C” or better and an earned minimum prerequisite GPA of 2.75 is required. RNs are accepted into the RN B.S.N. *only* program track twice a year (January and August). See “Admission of Registered Nurses (RNs),” page 456.

RN-B.S.N.-M.S. The RN B.S.N.-M.S. program track, designed for highly motivated and experienced RNs, reflects an expansion of the RN B.S.N. *only* option. It provides for more rapid progression to graduate education that builds on

the existing undergraduate curriculum and enables RN students to take selected graduate courses, earning a grade of “B” or greater that apply toward their baccalaureate degree. Satisfactory completion of all general education and nursing prerequisite courses with a grade of “C” or better and an earned minimum prerequisite GPA of 3.00 is required. See “Admission of Registered Nurses (RNs),” page 456.

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, 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 504—and contact the College of Nursing Student Services Office.

PUBLIC HEALTH—M.P.H.

The School of Health Administration and Policy and the College of Nursing, at ASU, in conjunction with the University of Arizona and Northern Arizona University, offer courses leading to the Master of Public Health degree. Two concentrations are offered at ASU: (1) Community health practice is coordinated by the College of Nursing, and (2) health administration and policy is coordinated by the School of Health Administration and Policy. For more information, 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 74.

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 program.

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 “General Studies,” page 75. 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 Courses” table, page 81, in the course descriptions, in the *Schedule of Classes*, and in the *Summer Sessions Bulletin*.

COLLEGE DEGREE REQUIREMENTS

College requirements for graduation are consistent with those of the university. The B.S.N. degree requires 120 semester hours.

Prerequisite Course Requirements

The following courses must be completed before enrolling in the professional program. Completion of these courses does not ensure admission to the professional program. RN students should refer to "RN B.S.N. Degree Requirements (RN's)," on this page.

BIO 201 Human Anatomy and Physiology I SG	4
BIO 202 Human Anatomy and Physiology II	4
CDE 232 Human Development SB	3
CHM 101 Introductory Chemistry SQ	4
ENG 101 First Year Composition	3
ENG 102 First Year Composition	3
HCR 210 Clinical Health Care Ethics HU	3
HCR 220 Health Care Organizations L	3
HCR 230 Culture and Health C G	3
HCR 240 Human Pathophysiology	4
MAT 117 College Algebra MA	3
MIC 205 Microbiology SG	3
MIC 206 Microbiology Laboratory SG	1
NTR 241 Human Nutrition	3
PGS 101 Introduction to Psychology SB	3
PHI 103 Principles of Sound Reasoning L/HU	3
C, H elective	3
CS statistics elective	3
Total prerequisite	36

MAJOR REQUIREMENTS

The Nursing major requirements are completed after admission to the professional program. RN students should refer to "RN B.S.N. Degree Requirements (RN's)," on this page.

Nursing Core Courses

Junior Year

First Semester

NUR 341 Theory I: Health Integrity	4
NUR 351 Pharmacology in Nursing	3
NUR 36 Professional Development I	2
NUR 38 Nursing Practice I	7

Total 16

Second Semester

NUR 342 Theory II: Health Integrity and Alterations	5
NUR 36 Professional Development II: Nursing Research L	3
NUR 38 Nursing Practice II	5

Total 16

Senior Year

First Semester

NUR 44 Theory III: Health Integrity and Alterations	6
NUR 46 Professional Development III: The Art of Nursing HU	3
NUR 461 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.

RN—B.S.N. DEGREE REQUIREMENTS (RN's)

Prerequisite Course Requirements

BIO 201 Human Anatomy and Physiology I SG	4
BIO 202 Human Anatomy and Physiology II	4
CDE 232 Human Development SB	3
CHM 101 Introductory Chemistry SQ	4
ENG 101 First Year Composition	3
ENG 102 First Year Composition	3
HCR 240 Human Pathophysiology	4
MAT 117 College Algebra MA	3
MIC 205 Microbiology SG	3
MIC 206 Microbiology Laboratory SG	1
NTR 241 Human Nutrition	3
NUR 341 Theory I: Health Integrity*	4
NUR 342 Theory II: Health Integrity and Alterations*	5
NUR 351 Pharmacology in Nursing	3
NUR 361 Professional Development I	2
NUR 381 Nursing Practice I*	7
NUR 382 Nursing Practice II*	8
PGS 101 Introduction to Psychology SB	3
C, H elective	3
CS statistics elective	3
HU elective	3
Total prerequisites	76

* For alternates, see an advisor.

General Education Courses

Electives upper division	6
General course upper division	3

Total 9

Professional Nursing Courses for RN's. The following nursing courses are listed in order of course progression and are taught one day a week over a period of 12 months. Practice course scheduling may vary (e.g., day of week, time of day).

NUR 362 Professional Development II: Nursing Research L	3
NUR 391 Registered Nurse Mobility I: Professional Development L	3
NUR 392 Registered Nurse Mobility I: Health and Wellness	3
NUR 441 Theory III: Health Integrity and Alterations	6
NUR 442 Theory IV: Health Integrity and Alterations	3
NUR 443 Theory V: Leadership and Management	3
NUR 461 Professional Development III: The Art of Nursing HU	3
NUR 462 Professional Development IV	2
NUR 495 Community Health Home Health Nursing Practice	4

NOTE: For the General Studies requirement, courses and code requirements see University Graduate Requirements on this catalog, see Classification of Courses page 51 such as L, SQ, C, and H see "General Studies" page 78. For graduation page 74. For an explanation of additional omnibus courses offered but not listed

NUR 496 Leadership and Management Practice for RNs	3
Total	39
General elective total	9
Nursing core RN total	44

RNs interested in pursuing the RN M.S. track should contact an advisor in the College of Nursing Student Services Office.

ACADEMIC STANDARDS

Students are admitted into the College of Nursing as pre-major Nursing 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 program.

Consideration for admission into the professional program is contingent on achieving at least a "C" in all prerequisite courses and earning a minimum GPA of 2.75 in pre-requisite courses. In addition, a grade of "C" or higher is required in all course work for the degree except in nursing practice courses where a designation of a passing grade is required.

Once admitted into the professional program, students are allowed only one nursing course failure within the program. The second 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 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.

Any petition for curriculum adjustment, course substitution, overload, readmission to a nursing course, or readmission to the professional program must be approved by the College Standards Committee.

Withdrawals in accordance with the withdrawal policy of the university. Students are responsible for completing the university withdrawal procedure. To be considered for reenrollment in a professional program course, a completed petition must be submitted and approved by the College Standards Committee. See an academic advisor for assistance.

An incomplete in a required nursing course must be satisfactorily removed before progression in the professional program is permitted. A grade of "I" is not allowed in clinical courses. See "Grading System," page 67 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 effectively 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.

Information may also be presented in writing with out 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 experiential settings such as home visits to clients. Extensive travel may be required for selected clinical experiences.

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 341, 342, 381, 382, 441, 442 and 481. Consult with an advisor for information on laboratory fees for Nursing courses. 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 program; however, opportunities are available in lower division courses. For students pursuing upper division honors work, this enriched learning experience begins in the first year. Honors course work, consisting of at least 8 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 advising in the College of Nursing Student Services Office. Once admitted to the professional program, students receive advising from the honors coordinator.

For more information, call 480-965-2987 or stop by the Student Services Office at NUR 118. Interested students should also call the Barrett Honors College at 480-965-2359.

ASU West. ASU West hosts the professional program courses. To be eligible to enroll in the professional courses at ASU West, students must be admitted to the College of Nursing at ASU Main, submit all required material for admission to the professional program, and be admitted to the College of Nursing undergraduate professional program.

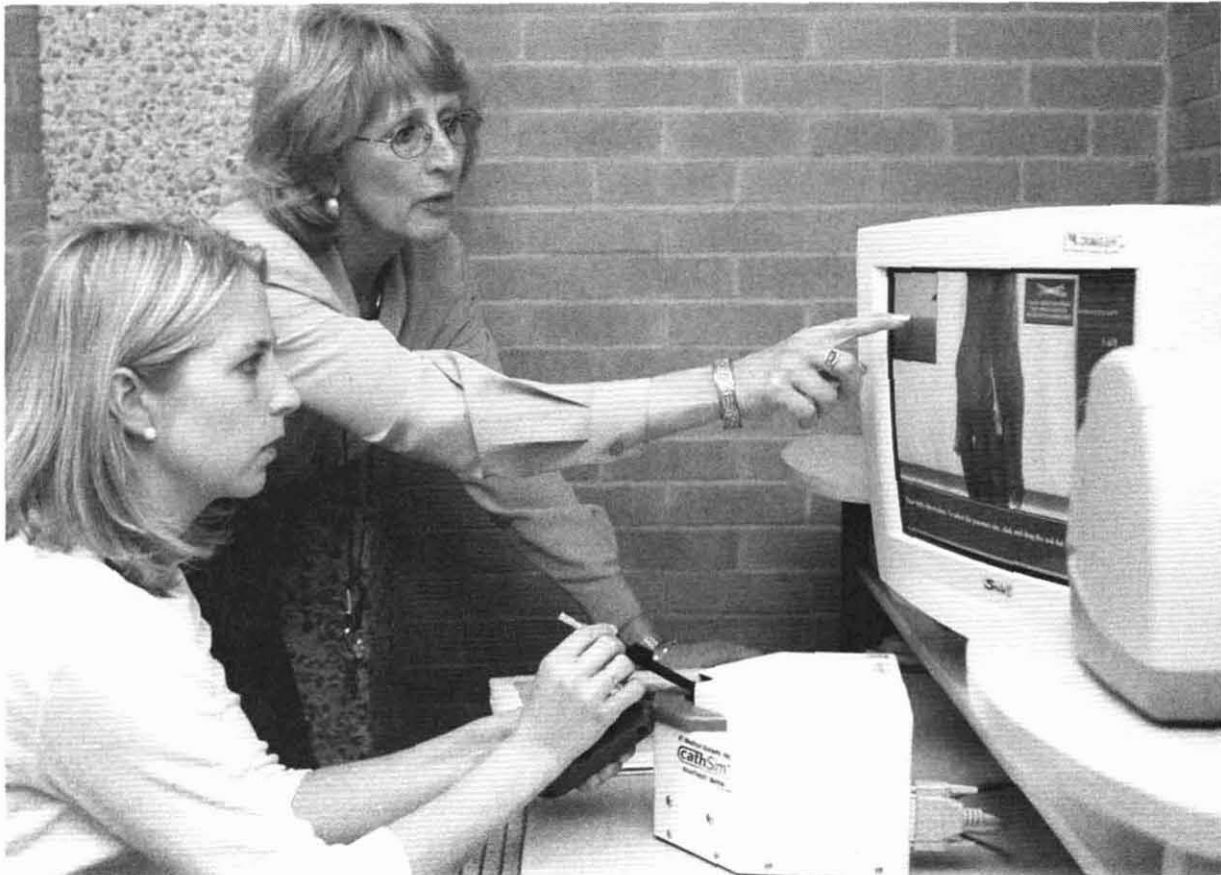
Continuing and Extended Education Program. The Continuing and Extended Education Program presents a variety of credit and noncredit offerings at ASU campuses and other off-campus locations. Instruction is also available via the Internet, CD-ROM, and other technology-based means. These offerings are designed 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. Some offerings are multidisciplinary and are open to non-RNs. The program also delivers on-site education. For descriptions of continuing and extended education offerings, call the Continuing and Extended Education Program, College of Nursing, at 480/965-7431, send e-mail to conceep@asu.edu, or access the program's Web site at www.asu.edu/nursing/ce.

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 health examinations and immunizations required for admission to the professional 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.



Student learning a computer-simulated method of locating and inserting IV needles. Feedback from the machine allows students to learn without discomfort to human subjects.

Tom Trumble photo

NOTE: For the General Studies requirement, courses, and codes (such as L, SQ, C, and H), see "General Studies," page 78. For graduation requirements, see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 51.

Scholarship and Financial Aid. For information regarding scholarships and loans, see "Financial Aid," page 48. 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 clinical simulation laboratory, and audiovisual media, a variety of computers, and computer software related to nursing and health care. The LRC is staffed for student use during regular semester schedules.

Clinical Facilities. Learning experiences with patients, clients, and families are provided under the supervision of qualified faculty in cooperation with a variety of federal, state, county, private health, and other agencies. The College of Nursing has contracts with over 250 agencies to provide clinical and practicum experience for Nursing students, operates its own unique nurse managed clinic in a community setting, and offers experiences in a variety of other nurse managed health services facilities. 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 College Council of Nursing Students (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 Nurses' 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 program, 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 International. The Beta Upsilon chapter of Sigma Theta Tau International (STT) was chartered at

the College of Nursing in 1976. Membership in STT 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 programs 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, GALE K. DD, PERRY, THURBER

ASSOCIATE PROFESSORS

ADAMS, ALPERS, BAGWELL, BRILLHART, CESAROTTI,
DIRKSEN, SMEURT, KILLEEN, KOMNEN, CH. MATTSO,
McCARTHY, PRIMAS, RODRIGUEZ

ASSISTANT PROFESSORS

LONG, McGRATH, PCKENS, SEHESTED,
SOUSA, ZUNKEL

CLINICAL ASSOCIATE PROFESSORS

BECK, BELL, FARGOTSTEIN, HAGLER, JASPER,
KASTENBAUM, MORRIS, STELWELL, WHITE

CLINICAL ASSISTANT PROFESSORS

P. JOHNSON, W. JOHNSON, NUNEZ, SAYLES,
SHEARMAN, WOTRING

INSTRUCTORS

ROSDAHL, SHEARER

COMMUNITY HEALTH PRACTICE (CHP)

See the *Graduate Catalog* for the CHP courses.

HEALTH CARE RELATED (HCR)

HCR 210 Clinical Health Care Ethics. (3)

fall, spring, summer

Health care ethics emphasizing analysis and ethical decisions on making
at national and health policy decisions for health care professionals. Pre-
requisites: ENG 101, 102

General Studies: HU

HCR 220 Health Care Organizations. (3)

fall and spring

Overview of United States health care delivery systems, financing,
health policy, basic principles of budgeting, cost-benefit analysis, and
resource management. Cross-listed as HSA 20. Credit is awarded for
only HCR 220 or HSA 220. Prerequisites: ENG 101 or 105, 1, 2

General Studies: L

HCR 230 Culture and Health. (3)*fa and spring*

Cultures of diverse groups and health needs. Cross-cultural communication on awareness of own cultural influences and genetic and aetiological health practices.

*General Studies C G***HCR 240 Human Pathophysiology. (4)***fa and spring*

Chemical, biological, chemical, and physiological processes used in study of structural and functional alterations in health with selected therapeutic interventions. Prerequisites: BIO 201 and 202 and MIC 205 and 206 or their equivalents.

NURSING (NUR)**NUR 314 Health Assessment for Registered Nurses. (3)***summer*

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

NUR 341 Theory I: Health Integrity. (4)*fa and spring*

Concepts related to health integrity with focus on individual clients. Fee. Prerequisite: admission to professional Nursing program. Pre- or corequisites: NUR 351, 361, 381.

NUR 342 Theory II: Health Integrity and Alterations. (5)*fa and spring*

Concepts related to selected alterations in health integrity with focus on individual families and groups. Fee. Prerequisite: Jun or courses. Pre- or corequisite: NUR 362, 382.

NUR 351 Pharmacology in Nursing. (3)*fa and spring*

Foundations of pharmacology and interventions. Prerequisite: admission to professional Nursing program.

NUR 361 Professional Development I. (2)*fa and spring*

Introductory professional nursing roles and responsibilities. Prerequisite: admission to professional Nursing program.

NUR 362 Professional Development II: Nursing Research. (3)*fa and spring*

Introduction to concepts and issues in nursing research. Emphasis on quantitative and qualitative research processes, examination of nursing research literature. Prerequisite: Jun or I. *General Studies L*

NUR 381 Nursing Practice I. (7)*fa and spring*

Apples health assessment, nursing process, and basic skills to promote and maintain health integrity of individual clients. Lab clinical experience. Fee. Prerequisite: admission to professional Nursing program. Pre- or corequisites: NUR 341, 351, 361.

NUR 382 Nursing Practice II. (8)*fa and spring*

Apples nursing process with selected individual families and groups experiencing alterations in health integrity. Lab clinical experience. Fee. Prerequisite: Jun or I. Pre- or corequisites: NUR 342, 362.

NUR 391 Registered Nurse Mobility I: Professional Development. (3)*fa and spring*

Historical philosophy and theoretical base for professional nursing practice. Enhancement of critical inquiry skills through exploration of selected issues. Prerequisite: admission to professional Nursing program. *General Studies L*

NUR 392 Registered Nurse Mobility II: Health and Wellness. (3)*fa and spring*

Concepts of health integrity and community-based practice and professional nursing roles. Prerequisite: NUR 391.

NUR 441 Theory III: Health Integrity and Alterations. (6)*fa and spring*

Concepts related to health integrity and alterations with focus on individual families, groups, aggregates, and communities. Fee. Prerequisite: Jun or I. Pre- or corequisite: NUR 461, 481.

NUR 442 Theory IV: Health Integrity and Alterations. (3)*fa and spring*

Advanced concepts related to health integrity and alterations in health integrity with focus on selected client populations. Fee. Prerequisite: Senior. Pre- or corequisites: NUR 443, 462, 482.

NUR 443 Theory V: Leadership and Management. (3)*fa and spring*

Selected theories and concepts of organizations, management, leadership with focus on nursing management and leadership in health care organizations. Prerequisite: Senior. Pre- or corequisites: NUR 442, 462, 482.

NUR 450 School Nursing Practice. (3)*summer*

Role of the professional nurse in planning, implementation, and evaluation of the school health program. Prerequisite: RN license.

NUR 451 Health Assessment of the Child. (3)*summer*

Maintenance of good health in the school-aged child using health assessment and promotion techniques. Lecture, discussion, self-study demonstration. Prerequisite: RN license.

NUR 452 Nursing of Children with Developmental Disabilities. (3)*summer*

Conceptual and acquired physical and mental developmental disorders including the evaluation of child and family and community resources. Prerequisite: RN license.

NUR 461 Professional Development III: The Art of Nursing. (3)*fa and spring*

Expresses the aesthetics, ethics, and personal patterns of nursing. Prerequisite: Jun or I. *General Studies HU*

NUR 462 Professional Development IV. (2)*fa and spring*

Focuses on role transition to professional nursing. Prerequisite: Senior.

NUR 481 Nursing Practice III. (7)*fa and spring*

Apply concepts and clinical practice related to health integrity and alterations with focus on individual families, groups, aggregates, communities. Lab clinical experiences. Fee. Prerequisite: Jun or I. Pre- or corequisites: NUR 441, 461.

NUR 482 Nursing Practice IV. (8)*fa and spring*

Capstone course with focus on synthesis and application of patterns of knowledge and leadership, management concepts in collaborative nursing practice. Lab clinical experiences. Prerequisite: Senior. Pre- or corequisites: NUR 442, 443, 462.

NUR 494 Special Topics. (1-4)*fa, spring, summer*

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

NUR 495 Community Health/Home Health Nursing Practice. (4)*fa and spring*

Theoretical content related to community and home health care. Clinical practice with individual family aggregates. 1-hour lecture, 3 hours lab. Prerequisite: NUR 392. Corequisite: NUR 362.

NUR 496 Leadership and Management Practice for RNs. (5)*fa and spring*

Capstone leadership and management experience for the RN student that utilizes patterns of knowledge in nursing practice. Clinical lab. Prerequisite: NUR 362, 392, 443, 461. Corequisite: NUR 495.

NUR 500 Research Methods. (3)*fa and spring*

Research methods in understanding research conceptualization and design in nursing. Prerequisite: admission to graduate Nursing program. Graduate-level inferential statistics course.

NOTE: For the General Studies requirement courses and codes such as L, SQ, and H, see General Studies page 78. For graduation requirements, see University Graduation Requirements page 74. For an expanded addition of minor bus courses offered but not listed in this catalog, see "Classification of Courses" page 51.

NUR 501 Advanced Adult Health Assessment/Promotion: Advanced Theory. (4)

fa

Expands adult health assessment/promotion skills through knowledge strategies essential for developing and interpreting data. Lecture demonstration. Prerequisites: a core and flexible core courses except thesis project. Corequisite: NUR 580

NUR 502 Management and Maintenance of Adults with Chronic Health Alterations: Advanced Theory. (4)

spring

Includes theory research that guides the management/maintenance of adults with chronic health alterations. Emphasizes psychophysiology characteristics of illnesses. Lecture, seminar. Prerequisites: NUR 501 a core and flexible core courses except thesis project. Pre or corequisite: NUR 580

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

spring

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

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

fa

Theories related to holistic health assessment for the promotion of physical psychosocial health. Develops skill in mental health assessments. Lecture seminar. Prerequisite: a core and flexible core courses except thesis project.

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

fa

Analyzes issues, theories, and research in restoration and promotion of mental health. Emphasizes developing conceptual framework for psychiatric nursing. Prerequisites: NUR 521; a core and flexible core courses except thesis project. Corequisite: NUR 580

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

spring

Focuses on development of theoretical basis for intervention and a knowledge base for collaboration and consultation in the mental health area. Prerequisites: NUR 522, a core and flexible core courses except thesis/project. Corequisite: NUR 580

NUR 524 Psychoneuroimmunology Approaches to Practice. (3)

summer

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

NUR 525 Neonatal/Pediatric Physiology/Embryology. (3)

fa

Prepares advanced practice nurses to use embryology, genetics, and physiology concepts within the nursing process: the care of pediatric and neonatal patients. Lecture/discussion/participative dialogues/casestudies. Prerequisites: undergraduate anatomy and physiology courses

NUR 526 Advanced Neonatal Physical Assessment. (4)

fa

Develops assessment skills related to neonate/infant including history taking, physical development, behavior, culture, and genetic assessment to provide comprehensive advanced practice neonatal nursing care. Lecture seminar/discussion/casestudies. Prerequisite: instructor approval. Corequisite: NUR 525

NUR 527 Neonatal and Pediatric Pharmacology in Nursing Practice. (3)

spring

Examines and discusses the rationale, action, and therapeutic effect for using each class of medications employed in neonatal and pediatric health care. Lecture seminar/discussion/casestudies. Pre or corequisites: both NUR 525 and 526 or 558 or ony instructor approval.

NUR 528 Advanced Developmental and Family-Centered Nursing Care. (4)

spring

Provides the foundation for providing advanced nursing care of children that is developmentally supportive, family centered, and culturally competent. Lecture seminar/discussion/sk laboratory/cnca. Pre or corequisites: both NUR 525 and 526 (or 558) or ony instructor approval.

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

fa

Focuses on current practices, research, and issues related to health promotion and disease prevention for children and adolescents. Lecture seminar. Prerequisite: a core and flexible core courses except thesis/project. Corequisite: NUR 580

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

spring

Focuses on concepts, theories, and research as a basis for strategies related to management of illness and health maintenance for children. Lecture seminar. Prerequisites: NUR 531 a core and flexible core courses except thesis project. Corequisite: NUR 580

NUR 533 Nursing of Children with Special Needs: Advanced Theory. (3)

spring

Focuses on concepts, theories, and research related to acute and chronic health deviations of children. Lecture seminar. Prerequisites: NUR 531 or instructor approval; a core and flexible core courses except thesis project. Corequisite: NUR 580

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

fa I

Focuses on theories, principles, and research related to managing the health of normal/pregnant women and families. Cooperative learning strategies. Prerequisite: a core and flexible core courses except thesis project. Corequisite: NUR 580

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

spring

Focuses on management of nursing care for high risk/pregnant women and women with common health problems. Cooperative learning strategies. Prerequisites: NUR 534 a core and flexible core courses except thesis project. Corequisite: NUR 580

NUR 551 Theoretical Foundations of Advanced Practice Nursing. (3)

fa I and spring

Facilitates student exploration and examination of the foundations of advanced nursing practice. Lecture seminar. Prerequisite: admission to graduate Nursing program.

NUR 552 Health Care Issues and Systems. (3)

fa and spring

Analyzes organization, financing, service delivery, and outcomes of the health system. Emphasizes policy issues and challenges for nurses. Lecture seminar. Prerequisite: admission to graduate Nursing program

NUR 553 Life Span Development. (3)

fa I

Critical examination of concepts, theories, issues, and research related to developmental periods throughout the life span. Analyzes biological and health/cognitive/psychosocial and sociocultural influences. Lecture/discussion. Prerequisite: admission to graduate Nursing program

NUR 554 Population-Based Health Care. (3)

fa I and spring

Identification and assessment of specific community health needs and health care patterns of target populations. Addresses promotion, protection, and improvement of health when planning health care services. Lecture, seminar. Prerequisite: admission to graduate Nursing program

NUR 558 Advanced Pediatric Health Assessment. (3)

spring

Expansion of basic health assessment skills and development of clinical problem-solving skills for advanced practice nurses. Includes assessments of infants, children, and adolescents. Lecture/lab. Prerequisites: admission to graduate Nursing program under graduate health assessment within the last five years.

NUR 559 Advanced Health Assessment. (3)*spring*

Expans on of bas c hea th asse sment sk s and deve opment of c n ca prob em-so v ng sk s for advanced pract ce nurses nc udes assessments of nfants ch dren ad escents and adu ts Lecture lab Fee Prerequ s tes ad ss n to graduate Nurs ng program undergraduate health assessment w th n t e last f ve year

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

Focuses on the exam nat on and mp ementat on of the ro e of the advanced practice nur e, emphas z ng major components and sub components of the ro e Lecture sem nar Prerequ site adm ss on to graduate Nurs ng program or nstr ct or approva

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

F rst d dact c ro e spec a ty cour e. Focuses on concepts and strate g es to *promote manage and ma nta n hea th of c d adu t and fam y*. Prerequ s te a core and flex ble core c urses except thes s/ project Corequisite. NUR 580

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

Second d dact c ro e spec a ty course ut z ng know edge from prev ous c urses to formu ate therapeut c promot on management and ma ntenance for nd v dua s ac oss the fe span. Prerequ s tes: NUR 562; a core and flex ble core c urses except thes s pr ject Corequ site: NUR 580

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

L fe span course for advanced nurse pract t oner to expand know edge of pharmacotherapeut c concepts and pr nc p es Lecture d s cuss on case stud es Prerequ s te adm ss on to graduate Nurs ng program.

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

Advanced nurse pract t oner course des gned to expand prev ous y acqu red anatomy and phys o gy kn w edge and d scern patho gy ca alterat ons across the fe pan Lecture, seminar case stud es Pre requ s tes: adm ss on to graduate Nurs ng program undergraduate anatomy and phys o gy

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

Ana yzes the patterns of hered ty, ce u ar d fferent at n and the development of systems in the infant to ado escent Prerequis te adm ss on to graduate Nurs ng program

NUR 571 Teaching in Nursing Programs. (3)*not regularly offered*

Ana yzes theor es ssues and re ear h re ated to teach ng n nurs ng. *Focuses on the process of teach ng/ earn ng Sem nar, cooperat ve learn ng.* Prerequ s te graduate stand ng.

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

Introduc on to theory and methodo gy of Gesta t therapy and ts uses for mental hea th promot on and restorat on

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

Focuses on f rther deve opment of Gesta t therapy and ts app cat on in work ng w th various c ent popu at ons Prerequ s te NUR 578.

NUR 580 Practicum (Electives). (1-4)*not regularly offered*

C n ca app cat on of theor es concepts, and pr nc p es such as hea th promot on hea th management hea th ma ntenance, teach ng management and specia c n a stud es Fee

NUR 580 Advanced Nurs'ng Practicum I, II. (1-12)*fall and spring*

C n ca app cat on of theor es, c ncepts and pr nc p es n areas of con entrat on Conferen es Poss b e top cs

- a Adu t Hea th Nurs ng 2-6)
- b Community Hea th Nurs ng 2-6
- c Commu ty Menta Hea th Psych atric Nurs ng 2-6
- d Fam y Hea th Nurs g 2-6
- e) Parent Ch d Nurs ng w th the Track of the Ch dbear ng Fam y and Nurs ng of Ch dre 2-6
- f Women s Hea th N rs ng 2-6

Prerequ s te adm ss on to graduate Nurs ng program Corequ s te NUR 501 or 502 or 503 or 522 or 523 or 531 or 532 or 533 or 534 or 535 or 562 or 563

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

Ana yzes ma or the r es and concepts of human physio gy Exp ores nterrelat onsh p of phys o gy and hea th Prerequ s te adm ss on to graduate Nurs ng program

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

Students operat ona ze commu ty hea th nurs ng/pub l c hea th content n eadersh p ro es n a variety of commu ty agenc es C n ca nternsh p Prerequ s te NUR 580

NUR 585 Stress Reduction. (3)*not regularly offered*

Theory, app cation and eva uat on of m nd/body re axat on methods ncl uding phys o gy ca effects Emphas ze research find ngs Da y st dent pract ce Prereq isite graduate stand ng or nstructor approva

NUR 586 Advanced Pathophysiology. (3)*spring*

Man festat on of altered human phys o gy and d sease Uses systems theory to ana lyze the re at onsh ps of d sease and phys o gy Prereq u s tes NUR 582 adm ss n to graduate Nurs ng program

NUR 589 Research Utilization. (3)*fall and spring*

Emphasizes the synthes s and app cat on of research to an dent f ed c nca nurs ng problem Prerequ s te a core and flex ble core courses except thes s/project Corequ s te NUR 593

NUR 591 Seminar. (2-4)*not regularly offered*

Advanced top cs nc ud ng curr cu um deve opment and hea th promo t on Prerequ s te: nstructor approva n selected courses

NUR 593 Applied Project. (1)*fall and spring*

Preparat on of a superv sed app ed project that s a graduat on requ rement n some profess ona majors. Prerequ s te a core and flex ble core courses Corequ s te NUR 589

NUR 598 Special Topics. (1-4)*not regularly offered*

Spec a study, nc ud ng ssues n hea th care and organ zat ons, man agement n nurs ng eth ca ssues, and c nca nurse specia st ro e Poss b e top cs:

- a Advanced Neo ata Theory 4
fall
Fee
- b Advanced Neonata Theory I 3
spring
- (c) Ep dem o gy 2
- d Nurs ng of Ch dren w th Development D sab t es (3)
- e Schoo Nurs ng Pract ce (3)

NUR 599 Thesis. (1-6)*fall spring summer*

Research proposa deve opment data c ect on and ana ysis thesis wr t ng and thes s ora defense S x hours requ red Prerequ s te a core and flex ble core courses

NOTE. *For the Genera Stud es requ rement courses, a d codes such as L, SQ, C and H see 'Genera Stud es' page 78. For graduation requ rements see "Un vers ty Graduat on Requ rements" page 74. For an exp anat on of add t onal omn bus courses offered but not sted n th s catalog see 'Class f cat on of Courses' page 51.*

College of Public Programs

Anne L. Schneider, Ph.D., Dean

www.asu.edu/copp



Hugh Downs, for whom the School of Human Communication is named

Tam Tumble photo

American Indian Studies Program	470
Asian Pacific American Studies Program	472
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Walter Cronkite School of Journalism and Telecommunication	477
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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- 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 eight academic units, each administered by a chair or director:

- American Indian Studies Program
- Asian Pacific American Studies Program
- Department of Recreation Management and Tourism
- Hugh Downs School of Human Communication
- 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 54. Those who meet the minimum university admission requirements will be admitted to the undergraduate academic unit of the college as a *premajor* in that respective academic unit.

Major Status Admission Requirements. Entry to any undergraduate academic unit of the college with status as a major requires

1. the completion of at least 56 semester hours with a minimum cumulative GPA of 2.50;
2. the university First-Year Composition requirement and the university mathematical studies requirement (see "University Graduation Requirements," page 74); and
3. the College of Public Programs writing competence, communication, and computer requirements (see "College Degree Requirements," page 468).

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 to 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. students with admissions competency deficiencies,
2. all freshmen,
3. transfer students in their first semester at ASU;
4. readmitted students,
5. students on probation,
6. students who have been disqualified
7. students with special admissions status; and
8. all Social Work undergraduate majors.

Course Load. A normal course load per semester is 15 to 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 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 to 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 undergraduate academic instruction in five departments or schools. 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, on this page.

College of Public Programs Baccalaureate Degrees and Majors

Major	Degree	Concentration	Administered By
American Indian Studies	B.S.		American Indian Studies Program
Broadcasting	B.A.	Broadcast journalism, business/management	Walter Cronkite School of Journalism and Telecommunication
Communication	B.A., B.S.		Hugh Downs School of Human Communication
Journalism	B.A.	News editorial, public relations, visual journalism	Walter Cronkite School of Journalism and Telecommunication
Justice Studies	B.S.		School of Justice Studies
Recreation	B.S.	Recreation management, tourism	Department of Recreation Management and Tourism
Social Work	B.S.W.		School of Social Work

GRADUATE PROGRAMS

Master's degree programs are offered by all of the academic units of the College of Public Programs and four of the units offer doctoral degrees. See the "College of Public Programs Graduate Degrees and Majors" table, page 469.

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

ASU EXTENDED CAMPUS

The College of Extended Education was created in 1990 to extend the resources of ASU throughout Maricopa County, the state, and the region. The College of Extended Education is a university-wide college that oversees the ASU Extended Campus and forms partnerships with other ASU colleges to meet the instructional and informational needs of a diverse community.

The ASU Extended Campus goes beyond the boundaries of the university's three physical campuses to provide access to quality academic credit and degree programs for working adults through flexible schedules, a vast network of off-campus sites; classes scheduled days, evenings, and weekends; and innovative delivery technologies including television, the Internet, and independent learning. The Extended Campus also offers a variety of professional continuing education and community outreach programs.

For more information, see "ASU Extended Campus," page 683, or access the Web site at www.asu.edu/xed

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 Writing Programs Office.

General Studies Requirement

All undergraduate students in the College of Public Programs are required to complete the university General Studies requirement 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 parts of the General Studies requirement, see "General Studies," page 75, 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 80.

College Degree Requirements

In addition to the university General Studies requirement, the College of Public Programs has requirements in communication, computer science, 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 L	3
COM 230 Small Group Communication SB	3
COM 241 Introduction to Oral Interpretation L/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 computer (CS) 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.

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 language other than English under the B.A. Proficiency is defined as completing the second semester intermediate level, or higher, of a language other than English.

Writing Competence Requirement

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

BUS 301 Fundamentals of Management Communication L	3
ENG 255 Strategies of Academic Writing L	3
ENG 216 Persuasive Writing on Public Issues L	3
ENG 217 Writing Reflective Essays L	3
ENG 215 Writing About Literature L	3
ENG 301 Writing for the Professions L	3
JRN 201 Journalism Newswriting L	3
TCM 201 Radio Television Writing L	3

The writing competence course may be counted as fulfilling the university General Studies literacy and critical inquiry (L) 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.

Limit 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.

College of Public Programs Graduate Degrees and Majors

Major	Degree	Concentration	Administered By
Communication	M.A.		Hugh Downs School of Human Communication
	Ph.D.	Communicative development, intercultural communication, organizational communication	Hugh Downs School of Human Communication
Justice Studies	M.S.		School of Justice Studies
	Ph.D.	Criminal and juvenile justice; dispute resolution; law, justice, and minority populations; law, policy, and evaluation; women, law, and justice	Committee on Law and Social Sciences
Mass Communication	M.M.C.		Walter Cronkite School of Journalism and Telecommunication
Public Administration	M.P.A.	Public information management, public management, public policy analysis and evaluation, urban management and planning	School of Public Affairs
	D.P.A.		School of Public Affairs
Recreation	M.S.		Department of Recreation Management and Tourism
			School of Social Work
Social Work	M.S.W.	Advanced direct practice; planning, administration, and community practice	School of Social Work
	Ph.D.		School of Social Work

* This program is administered by the Graduate College

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, 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 re-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 call this office for advising at 480.965.1034.

NOTE: For the General Studies requirement course and codes (such as L, SQ, C, and H) see "General Studies" page 78. For graduate requirements, see "University Graduate Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses" page 51.

SPECIAL PROGRAMS

Craig and Barbara Barrett Honors College

The College of Public Programs cooperates with the Barrett Honors College, which affords superior undergraduates opportunities for special classes taught by selected faculty. Honors students receive special advising and priority pre-registration 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 Barrett Honors College can be found in the "The Craig and Barbara Barrett Honors College" section, page 112.

For more information, visit the College of Public Programs Student Services Office at WILSON 207, call 480-965-1058. For more information about the Barrett Honors College, call 480-965-2359.

College of Public Programs Council

The College of Public Programs Council is a unit of Associated Students of Arizona State University and serves as the coordinating body of student activities in the college. The council fosters communication, cooperation, and understanding among undergraduate students, faculty, staff, and the official representatives of student organizations 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.

Center for Nonprofit Leadership and Management

The mission of the Center for Nonprofit Leadership and Management is "to improve the quality of life in communities by enhancing the performance of nonprofit organizations." Varied strategies accomplish this mission and include coordination of educational offerings, selected technical assistance to nonprofits, support for research projects for faculty and students, and the convening of nonprofit leaders and managers through a variety of training opportunities. The center supports the activities of three complementary nonprofit management education programs: the Nonprofit/Youth Agency Administration, an Asian Humanities Certificate (undergraduate), the Nonprofit Management Certificate (extended education), and the Nonprofit Leadership and Management Certificate (graduate). For more information, call 480-965-6667.

Center for Urban Inquiry

The Center for Urban Inquiry focuses on civic involvement. The center's mission is to enhance the unique features of the new urban West in the United States, particularly intersections of growth and development with globalization and community building. By harnessing the unique resources of the university, the center engages in partnerships with urban citizens, including efforts to increase awareness, promote inclusion, and address needs. Center programs include seed grants to students working on teams in pursuit of urban research and community service; experiential learning that involves students in community building, technical assistance to neighborhood organizations, schools, and hospitals; and the production of works that appeal broadly to urban audiences, including performances, exhibits, and videos.

For more information, call 480-965-9716, or access the Web site at www.asu.edu/copp/urban.

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** *Special Topics* (1-4)
not regularly offered
- CPP 294** *Special Topics* (1-4)
not regularly offered
- CPP 394** *Special Topics* (1-4)
not regularly offered
- CPP 484** *Internship* (1-12)
not regularly offered
- CPP 494** *Special Topics* (1-4)
not regularly offered
- CPP 498** *Pro Seminar* (1-7)
not regularly offered
- CPP 499** *Individualized Instruction* (1-3)
not regularly offered
- CPP 580** *Practicum* (1-12)
not regularly offered
- CPP 583** *Field Work* (1-12)
not regularly offered
- CPP 584** *Internship* (1-12)
not regularly offered
- CPP 590** *Reading and Conference* (1-12)
not regularly offered
- CPP 591** *Seminar* (1-12)
not regularly offered
- CPP 593** *Applied Project* (1-12)
not regularly offered
- CPP 594** *Conference and Workshop* (1-12)
not regularly offered
- CPP 598** *Special Topics* (1-4)
not regularly offered
- CPP 690** *Reading and Conference* (1-12)
not regularly offered
- CPP 691** *Seminar* (1-12)
not regularly offered

American Indian Studies Program

Carol C. Lujan

Director

(AG 372) 480/965-3634

Fax 480-965-2216

www.asu.edu/copp/americanindian

ASSOCIATE PROFESSOR

LUAN

ASSISTANT PROFESSOR

MILLER

The American Indian Studies Program emphasizes the political and cultural experience 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 corelates on the practical applications of professional career development, preparation for advanced degree programs, and preparation for service to Indian communities.

and reservations. It emphasizes scholarly expertise in selected fields of study and its practical application to community service.

AMERICAN INDIAN STUDIES—B.S.

Students pursuing a B.S. degree in American Indian Studies gain a broad knowledge of American Indian nations and peoples, with particular emphasis on Southwest American Indian nations. The degree program offers courses that provide students with intellectual and practical knowledge pertaining to American Indian cultures, history, law, literature, language, art, and government.

Students are required to take 42 semester hours, including 24 hours of required courses and 18 hours in one of two areas of emphasis: 1) legal policy, community, and economic development; or 2) arts, languages, and cultures. Contact the program office for a current listing of elective courses. The following courses are required for all students majoring in American Indian Studies.

AIS 180 Introduction to American Indian Studies C	3
AIS 280 American Indian Law and Society C	3
AIS 370 American Indian Languages and Culture	3
AIS 380 Contemporary Issues of American Indian Nations	3
AIS 385 Federal Indian Policy	3
AIS 394 ST Basic Statistical Analysis*	3
AIS 420 American Indian Studies Research Methods	3
AIS 498 Pro-Seminar in American Indian Studies	3

* Until American Indian Studies is able to offer its own course in statistical research methods, students must take JUS 307 or a comparable course, in consultation with an advisor.

The minor in American Indian Studies is designed for students interested in developing an understanding of American Indian issues and analyzing issues through critical inquiry. Fifteen semester hours are required, including AIS 180, 380, and 385 and six elective semester hours from the two areas of emphasis. No pass/fail or credit/noncredit course work may be applied to the minor. A minimum of nine hours must be in resident credit at ASU Main. Students must receive a minimum grade of "C" for all courses in the minor and meet all course eligibility requirements.

CERTIFICATE IN AMERICAN INDIAN STUDIES

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

To this end, the American Indian Studies Certificate program seeks to address the myriad of contemporary social, political, and economic problems and issues impacting American Indian people.

The program provides students with

- 1) useful knowledge pertaining to American Indian sovereignty, government, law, history, economic development, and culture;
- 2) practical experience in the form of an internship working in an American Indian government, a com-

munity program, an educational entity, an urban program, or a state/federal agency; and

- 3) educational skills so that graduates can pursue jobs with an American Indian focus.

For more information, call the director of the American Indian Studies Program at 480-965-6977.

AMERICAN INDIAN STUDIES (AIS)

AIS 180 Introduction to American Indian Studies. (3)

once a year
Introduction to the study of American Indian issues from an interdisciplinary perspective. Primary topics include sovereignty, law and culture.
General Studies C

AIS 194 Special Topics. (1-4)

fall and spring

AIS 280 American Indian Law and Society. (3)

fall and spring
Examines the sovereign status of American Indians and legal relationships between the tribes and the U.S. government. Lecture, studio, televised presentation.
General Studies C

AIS 294 Special Topics. (1-4)

not regularly offered

AIS 370 American Indian Languages and Cultures. (3)

fall

Emphasizes understanding of Indian language families and the relationship of oral traditions to culture. Prerequisite: AIS 180.

AIS 380 Contemporary Issues of American Indian Nations. (3)

spring

Survey of legal, socioeconomic, political, and educational state of contemporary reservation and urban Indians. Prerequisite: AIS 180.

AIS 385 Federal Indian Policy. (3)

spring

Historical overview of political and legal frameworks executive policies and judicial decisions in the context of Indian affairs. Prerequisite: AIS 180.

AIS 394 Special Topics. (1-4)

fall and spring

Possible topics:

- a) American Indian World Views and Philosophies

AIS 420 American Indian Studies Research Methods. (3)

fall

Survey of diverse research methods including statistical, historical, interpretive, and narrative approaches. Prerequisite: AIS 180.

AIS 484 Internship. (1-12)

not regularly offered

AIS 494 Special Topics. (1-4)

fall and spring

AIS 498 Pro-Seminar. (1-7)

not regularly offered

AIS 499 Individualized Instruction. (1-3)

not regularly offered

NOTE: For the General Studies requirement courses and codes such as L, SQ, C, and H, see "General Studies" page 78. For graduation requirements see "University Graduation Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses" page 51.

Asian Pacific American Studies Program

Thomas K. Nakayama
Director

(AG 352) 480/965-9711
Fax 480/727-7911

www.asu.edu/copp/asianamerican

PROFESSOR
NAKAYAMA

ASSISTANT PROFESSORS
de JESÚS ROSA

PURPOSE

Asian Pacific American Studies is an interdisciplinary undergraduate program that examines the experiences of Asian Americans and Pacific Islanders within the United States particularly in the Southwest. The program is designed to help students of all ethnicities to

1. appreciate the diversity of Asian American and Pacific Islander cultures, experiences, and histories;
2. understand the U.S. experience in new ways; and
3. participate more effectively in an increasingly diverse society.

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.

Certificate in Asian Pacific American Studies

Course Requirements. The certificate program requires 18 semester hours. Twelve core hours must be fulfilled by the following courses:

APA 200 Introduction to Asian Pacific American Studies <i>HU SB C</i>	3
APA 360 Asian Pacific American Experience <i>HU SB C</i>	3
APA 450 Asian Pacific American Contemporary Issues <i>SB C</i>	3
APA 484 Internship	3

The remaining six semester hours must be filled by courses from an approved list including any additional courses with an APA prefix as well as ASB 242, COM 263, MCO 460, and SOC 470.

Students must apply for the certificate program through the Asian Pacific American Studies Program office.

For more information, call the program director at 480 965 9711.

ASIAN PACIFIC AMERICAN STUDIES (APA)

APA 194 Special Topics. (1-4)

fa and spring

APA 200 Introduction to Asian Pacific American Studies. (3)

fa and spring

Examination of historical and contemporary issues facing Asians and Pacific Islanders in the United States. Lecture/discussion. *General Studies HU SB C*

APA 210 Introduction to Ethnic Studies in the U.S. (3)

fa and spring

Covers diversity, experience, and relations among racial and ethnic groups in the United States. Lecture/discussion. Cross-listed as AFH 210, CCS 210. Credits allowed for only AFH 210 or APA 210 or CCS 210.

General Studies C

APA 294 Special Topics. (1-4)

fa and spring

Open to all students. May be repeated for credit. Possible topics: Introduction to Ethnic Studies.

APA 310 Asian Pacific American Arts and Cultures. (3)

fa and spring

Exploration of Asian Pacific American cultural expressions in narrative, film, theatre, dance, and music. Lecture/discussion.

General Studies HU, C

APA 315 Asian Pacific American Literature. (3)

fa

Exploration of the literary history, critical theory, and major themes in Asian Pacific American poetry, fiction, and prose. Lecture/discussion.

General Studies HU, C

APA 340 Asian Pacific Americans and Media. (3)

fa

Analysis of social construction of Asian Pacific American images and resistance to those images in various historical contexts. Lecture/discussion.

General Studies HU, C

APA 360 Asian Pacific American Experience. (3)

fa and spring

Historical and contemporary experiences of an Asian Pacific American racial/ethnic group in the United States. Lecture/discussion. Possible topics:

- a. Chinese
- b. Filipino
- c. Japanese
- d. Korean
- e. Pacific Islander
- f. South Asian
- g. Southeast Asian

General Studies HU, SB, C

APA 394 Special Topics. (1-4)

fa and spring

Open to all students. May be repeated for credit. Possible topics:

- a. Asian Pacific American Immigration Issue
- b. Asian Pacific American Legal History
- c. Asian Pacific American Women's Issues and Identities

APA 450 Asian Pacific American Contemporary Issues. (3)

fa and spring

Focuses on issues shaping Asian Pacific American communities including immigration, postsecondary education, health, family, gender, youth, inter-racial relations, and other contemporary topics. Lecture/discussion. Prerequisite: APA 200 or instructor approval.

General Studies SB, C

APA 484 Internship. (1-12)

fa and spring

APA 494 Special Topics. (1-4)

fa and spring

Open to all students. May be repeated for credit. Possible topics:

- a. Asian Pacific American Communities
- b. Asian Pacific American Leadership
- c. Voices and Visions: Asian Pacific American Women's Issues, and Identities

APA 498 Pro-Seminar. (1-7)

fa and spring

APA 499 Individualized Instruction. (1-3)

fa and spring

Hugh Downs School of Human Communication

Jess K. Alberts
Director
 (STAUF A412) 480/965-5095
 Fax 480/965-4291
 com.pp.asu.edu

PROFESSORS

ALBERTS, ARNOLD BROOME, CANARY,
 CARLSON, JANE MARTIN, McPHEE,
 NAKAYAMA, VALENTE

ASSOCIATE PROFESSORS

BULEY, COREY CORMAN CRAWFORD DAVEY
 GUERRERO MAYER TROST

ASSISTANT PROFESSORS

BROOKEY, BROUDER DAVES, FLOYD MARTINEZ
 MESSMAN PARK FULLER, TRACY TRETHERWEY

INSTRUCTIONAL PROFESSIONAL

OLSON

ASSISTANT INSTRUCTIONAL PROFESSIONAL

McDONALD

PURPOSE

The Hugh Downs School of Human 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. Employers have ranked interpersonal, analytical team work, computer, and verbal communication skills as the top five skills desired for new hires. The curriculum is designed so that majors are proficient in each of these areas upon graduation. Courses are not offered in broadcasting or journalism.

GENERAL INFORMATION

A minimum GPA of 2.5 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 prema or 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 466), and (2) completion of 12 semester hours of Communication major core course requirements (COM 100, 207, 225, 308) with a minimum grade of "C" in each.

Students may reach major status upon successful completion of COM 308; they do not need to apply for major status.

DEGREE REQUIREMENTS

B.A. and B.S. Degrees

Students may choose to complete either a Bachelor of Arts or Bachelor of Science degree in Communication. The B.A. degree requires a minimum of 51 semester hours, including six hours of related area courses and a capstone course (COM 404, 407, or 484). The B.S. degree requires a minimum of 51 semester hours, including a General Studies CS (statistics) course, COM 408, and a capstone course (COM 404 or 407).

Both degree options require that students take four core courses (COM 100, 207, 225, and 308) plus 15 semester hours (five courses) where introductory courses are paired with advanced courses described below.

Students must choose three of the following courses for a total of nine semester hours:

COM 100 Elements of Interpersonal Communication <i>SB</i>	3
or COM 310 Relational Communication 3)	
COM 241 Introduction to Oral Interpretation <i>L/HU</i>	3
COM 250 Introduction to Organizational Communication <i>SB</i>	3
COM 263 Elements of Intercultural Communication <i>SB C G.</i>	3
COM 321 Rhetorical Theory and Research <i>L/HU H</i>	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 400 Interpersonal Communication Theory and Research <i>SB</i>	3
COM 421 Rhetoric of Social Issues <i>HU</i>	3
COM 441 Performance Studies <i>HU</i>	3
COM 450 Theory and Research in Organizational Communication <i>SB</i>	3
COM 463 Intercultural Communication Theory and Research <i>SB G</i>	3

Another 15 semester 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 Hugh Downs School of Human Communication. For descriptive information on university requirements, refer to "General Studies," page 78, and "University Graduation Requirements," page 74. Students in the College of Public Programs are required to take an advanced composition course (which meets the General Studies L requirement). Although many Communication courses meet the university General Studies requirements for literacy and critical inquiry (L), students must take an advanced composition course from the list provided by the College of Public Programs.

Students should consult the school for current information concerning College of Public Programs and Hugh Downs School of Human Communication requirements.

NOTE: For the General Studies requirement courses and codes such as SQ, C, and H, see General Studies page 78. For graduation requirements see University Graduation Requirements page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Course page 51.

Communication Internships

Internships (COM 484) consist of supervised field experiences and are available to upper level undergraduate students with major status and a GPA higher than 2.50. Students must also have completed or be concurrently enrolled in COM 410, 421, 441, 450, or 463. An application for internship must be completed in the semester before the intended term for an internship. Contact the school for specific deadline dates. Internships must receive prior approval from the internship programs coordinator *before* student registration for the course. Internships may be taken for up to six semester hours.

MINOR IN COMMUNICATION

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

GRADUATE PROGRAMS

In addition to offering an M.A. degree program, the Hugh Downs School of Human Communication also offers an interdisciplinary Ph.D. degree program in Communication. See the *Graduate Catalog* for the requirements and areas of concentration.

HUGH DOWNS SCHOOL OF HUMAN COMMUNICATION (COM)

COM 100 Introduction to Human Communication (3)

fall spring summer

Topics oriented introduction to basic theories, dimensions, and concepts of human communication, interaction and behavior.

General Studies SB

COM 110 Elements of Interpersonal Communication. (3)

fall spring summer

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)

fall spring summer

Bases of inquiry into human communication including introduction to notions of theory, philosophy, problems, and approaches to the study of communication. Prerequisites: COM 100 2.5 GPA

COM 222 Argumentation. (3)

fall and spring

Philosophical and theoretical foundations of argumentation including a comparison of modes of advocacy and evidence. Prerequisite: ENG 101 (or 105)

General Studies L

COM 225 Public Speaking. (3)

fall spring, summer

Verbal and nonverbal communication patterns, speaking disciplines and practice in vocal and physical delivery and purposeful organization and development of public communication. Prerequisite: ENG 101 or 105

General Studies L

COM 230 Small Group Communication. (3)

fall spring summer

Principles and processes of small group communication attitudes and skills for effective participation and leadership in small groups.

General Studies SB

COM 241 Introduction to Oral Interpretation. (3)

fall spring summer

Communication of literary materials through the mode of performance. Verbal and nonverbal behavior, techniques of interpretation with literature and audience and rhetorical and dramatic analysis of literary modes.

Prerequisites: ENG 101 or 105 2.25 GPA

General Studies L, HU

COM 250 Introduction to Organizational Communication. (3)

fall spring summer

Introduction to the study of communication in organizational context. Student familiarization with variables, roles and patterns influencing communication in organizations. Prerequisite: 2.25 GPA

General Studies SB

COM 251 Interviewing (3)

not regularly offered

Principles and techniques of interviewing including practice through real and simulated interviews in information, persuasive and employee related situations. Not open to freshmen.

COM 259 Communication in Business and the Professions. (3)

fall spring, summer

Interpersonal 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)

fall, spring, summer

Basic concepts, principles and skills for improving communication between persons from different minority racial, ethnic and cultural backgrounds. Lecture/discussion. Cross-listed as AFR 263. Credit awarded for only AFR 263 or COM 263. Prerequisite: 2.25 GPA.

General Studies SB, C, G

COM 271 Voice Improvement. (3)

not regularly offered

Intensive personal and group experience to improve oral communication skills including articulation and pronunciation.

COM 281 Communication Activities. (1-3)

fall spring summer

Nongraded participation in forums or interpretation occurrences. Activities. Maximum 3 semester hours each semester. Prerequisite: student registration.

COM 294 Special Topics. (3)

fall spring summer

Examination and analysis of communication in the context of other academic disciplines. May be repeated for credit. Open to B.I.S. majors only. Prerequisite: both COM 100 and 225 or only COM 259 2.00 GPA

COM 301 Introductory Theories and Principles of Communication: Communication in Relationships, Organizations, and Public Contexts. (3-9)

once a year

Integrated introduction to the theories and principles of communication in interpersonal and organizational contexts. Lecture, discussion, online component.

COM 308 Advanced Research Methods in Communication. (3)

fall spring summer

Advanced communication research methods including quantitative and critical analysis. Prerequisite: minimum cumulative ASU GPA of 2.50. Prerequisites with a grade of C or higher: COM 207, MAT 114 or higher level MAT course.

General Studies L

COM 310 Relational Communication (3)

fall and spring

Exploration of communication issues in the development of personal relationships. Current topics concerning communication in friendship, romantic and workplace relationships. Prerequisites: COM 100 minimum cumulative ASU GPA of 2.50

COM 312 Communication, Conflict, and Negotiation. (3)

fall and spring

Theories and strategies of communication relevant to the management of conflicts and the conduct of negotiations. Prerequisites: COM 100 minimum cumulative ASU GPA of 2.5

COM 316 Gender and Communication. (3)

fall and spring

Introduction to gender-related communication. Verbal, nonverbal, and paralinguistic differences and similarities are examined within social, psychological, and historical perspectives. Prerequisite: minimum cumulative ASU GPA of 2.50

General Studies SB C

COM 317 Nonverbal Communication. (3)

fall and spring

Study of communication's spatial, temporal, and facial expressions in touch, appearance, movement, objects, voice, and gender. Cultural variables. Not open to student with credit. COM 294 ST Beyond Words. Prerequisite: minimum cumulative ASU GPA of 2.50

COM 319 Persuasion and Social Influence. (3)

fall spring summer

Variables that influence and modify attitudes and behavior of message senders and receivers including a variety of theories, research, and current problems. Prerequisites: COM 207 or its equivalent. Minimum cumulative ASU GPA of 2.50. Prerequisite for non-major POS 401 or PSY 230, QBA 221 or SOC 390 or STP 226

General Studies SB

COM 320 Communication and Consumerism (3)

once a year

Critical evaluation of messages designed for public consumption. Perceptive evaluation, and reporting. Practical and commercial communication. Prerequisite: minimum cumulative ASU GPA of 2.50

General Studies SB

COM 321 Rhetorical Theory and Research. (3)

fall and spring

Historical development of rhetorical theory and rhetorical criticism from classical antiquity to the present. Prerequisites: COM 100 minimum cumulative ASU GPA of 2.50

General Studies HU H

COM 323 Communication Approaches to Popular Culture. (3)

fall spring summer

Critical analysis of popular culture with theoretical and practical texts. Emphasis on multicultultural influences and representations in everyday life. Lecture/discussion. Prerequisite: COM 100 minimum cumulative ASU GPA of 2.50

General Studies C

COM 325 Advanced Public Speaking. (3)

fall and spring

Social and pragmatic aspects of public speaking as a communicative system. Strategies of rhetorical theory and the presentation of forms of public communication. Prerequisite: COM 215 minimum cumulative ASU GPA of 2.50

General Studies L

COM 341 Social Contexts for Performance (3)

not regularly offered

Adaptation and performance literature for the community outside the university. Research into the practical uses of performance literature. Prerequisite: minimum cumulative ASU GPA of 2.50

COM 344 Performance of Oral Traditions. (3)

not regularly offered

Cultural beliefs and values through ethnographic research and performance of personal narrative, folk legends, and other oral traditions. Lecture/discussion. Research paper. Prerequisite: minimum cumulative ASU GPA of 2.50

General Studies, HU, C

COM 357 Communication Technology and Information Diffusion. (3)

fall

Impact of new information technology on society organizations and individuals. Hands-on experience plus critical analysis of theory and research. Requires both COM 250 or MGT 301 or PGS 410 or SO 318 and CS 18 or its equivalent or any instructor approved minimum cumulative ASU GPA of 2.50

General Studies SB

COM 371 Language, Culture and Communication. (3)

fall and spring

Cultural influence of language on communication including social functions of language, bilingualism and biculturalism. Letter grades. Cross-listed as AFR 371. Credits allowed for only AFR 71 or COM 371. Prerequisite: COM 263 or AFR 263 or instructor approved minimum cumulative ASU GPA of 2.50

General Studies SB C, G

COM 382 Classroom Apprenticeship. (1-3)

fall spring summer

Nongraded credit for students extended the experience with a on-the-job by assisting with instructor supervision. Not for COM students. Maximum 3 semester hours each semester. Prerequisites: 2.5 GPA, written instructor approval

COM 394 Special Topics. (1-4)

fall spring summer

Prerequisite: minimum cumulative ASU GPA of 2.50.

COM 400 CIP Communication in Professions. (3)

fall spring summer

Specialized study of communication processes in professional and organizational settings. May be repeated for credit. Open to B.S. majors only. Lecture/discussion. Prerequisites: both COM 100 and COM 250 or only COM 259, 2.00 GPA

General Studies HU C

COM 404 Research Apprenticeship. (3)

fall and spring

Direct research experience on faculty project. Student/faculty match based on interests. Elective apprenticeship. Prerequisites: COM 308 or instructor approved minimum cumulative ASU GPA of 2.50. Application required.

COM 407 Advanced Critical Methods in Communication. (3)

spring

Examinate and fortify approaches relevant to communication including textual, cultural, literary, and ethnographic. Lecture/discussion. Prerequisite: COM 380 minimum cumulative ASU GPA of 2.50

COM 408 Quantitative Research Methods in Communication. (3)

fall and spring

Advanced design measurement technique and methods of data analysis of communication research. Prerequisites: COM 318 and a general statistics course: EDP 454 or POS 401 or PSY 230 or QBA 210 or SOC 390 or STP 610 minimum cumulative ASU GPA of 2.50

COM 410 Interpersonal Communication Theory and Research. (3)

fall, spring, summer

Survey and analysis of major research topics, paradigms, and theories dealing with message exchanges between and among social peers. Prerequisite: COM 110 or 310, 308 minimum cumulative ASU GPA of 2.50

General Studies SB

COM 411 Communication in the Family. (3)

once a year

Breakdown of communication issues found in marriage and family. The focus on recent topics concerning communication in the family. Prerequisites: COM 110 or 310, 207 minimum cumulative ASU GPA of 2.50

General Studies SB

COM 414 Crisis Communication. (3)

not regularly offered

Role of communication in crisis development and intervention. Prerequisite: minimum cumulative ASU GPA of 2.50

NOTE: For the General Studies requirement courses and courses such as L, Q, and H see General Studies, page 78. For graduate requirements, see University Graduate Requirements, page 74. For an expansion of additional omnibus courses offered but not listed in this catalog see Catalogation of Courses, page 51.

COM 417 Communication and Aging. (3)*not regularly offered*

Critical study of changes in human communicative patterns through the later adult years with attention on intergenerational relationships and self-concept functions. Prerequisite: minimum cumulative ASU GPA of 2.50

COM 421 Rhetoric of Social Issues. (3)*fall and spring*

Critical rhetorical study of significant speakers and speeches on social issues of the past and present. Prerequisites: COM 308, 321, or 323. *General Studies: HU*

COM 422 Advanced Argumentation. (3)*not regularly offered*

Advanced study of argumentation theories and research as applied to public forum, adversary scholarly, and legal settings. Prerequisites: COM 222. Minimum cumulative ASU GPA of 2.50

COM 426 Political Communication. (3)*fall*

Theories and critical forms of political communication including campaigns, mass persuasion, propaganda, and speeches. Emphasis on rhetorical approaches. Prerequisite: minimum cumulative ASU GPA of 2.50

*General Studies: SB***COM 430 Leadership in Group Communication. (3)***not regularly offered*

Theory and process of leadership in group communication emphasizing philosophical foundations, contemporary research, and applications to group situations. Prerequisites: COM 230. Minimum cumulative ASU GPA of 2.50

COM 441 Performance Studies. (3)*fall, spring, summer*

Theory, practice, and critical forms of texts in performance. Emphasis on the interaction between performer, text, audience, and context. Prerequisites: COM 241, 308. Minimum cumulative ASU GPA of 2.50. *General Studies: HU*

COM 445 Narrative Performance. (3)*not regularly offered*

Theory and practice of performing narrative texts, e.g., prose fiction, oral histories, dramas, essays, letters, and video script. Directed reading and the rhetorical analysis of storytelling. Prerequisites: COM 241. Minimum cumulative ASU GPA of 2.50

*General Studies: HU***COM 446 Interpretation of Literature Written by Women. (3)***not regularly offered*

Explores through performance and critical writing, literature written by women. Prerequisite: minimum cumulative ASU GPA of 2.50

*General Studies: HU, C***COM 450 Theory and Research in Organizational Communication. (3)***fall, spring, summer*

Critical review and analysis of the dominant theories of organizational communication and the primary research strategies. Prerequisites: COM 250, 308. Minimum cumulative ASU GPA of 2.50

*General Studies: SB***COM 453 Communication Training and Development. (3)***one a year*

Examination of the procedures and types of communication training and development in business, industry, and government. Prerequisites: COM 250. Minimum cumulative ASU GPA of 2.50

COM 463 Intercultural Communication Theory and Research. (3)*fall, spring, summer*

Survey and analysis of major theories and research dealing with communication between people of different cultural backgrounds, primarily in international settings. Lecture/discussion seminar. Cross-listed as AFR 463. Credit awarded for only AFR 463 or COM 463. Prerequisites: both COM 263 or AFR 263 and 308 or only instructor approval. Minimum cumulative ASU GPA of 2.50

*General Studies: SB, G***COM 465 Intercultural Communication Workshop. (3)***not regularly offered*

Experiential study of communication between members of different cultures designed to help students improve their intercultural communication skills. Prerequisites: minimum cumulative ASU GPA of 2.5. Instructor approval

COM 484 Communication Internship (1–6)*fall, spring, summer*

Fee. Prerequisites: COM 225, 308. Minimum cumulative ASU GPA of 2.50. Application required. Prerequisite: COM 410 or 421 or 441 or 450 or 463

COM 494 Special Topics. (1–3)*fall, spring, summer*

Prerequisite: minimum cumulative ASU GPA of 2.50

COM 501 Research Methods in Communication. (3)*fall*

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

COM 504 Theories and Models in Communication. (3)*fall*

Theory construction, meta-theoretical concerns, models, construction, and comparative analysis of current theories in communication. Prerequisite: instructor approval

COM 508 Quantitative Research Methods in Communication. (3)*fall*

Empirical research designs, measurements, and statistical strategies and techniques in analyzing and evaluating experimental and descriptive research in communication. Prerequisites: both COM 501 and 504 or ony instructor approval

COM 509 Qualitative Research Methods in Communication. (3)*spring*

Qualitative research methods including interviewing, field methods, and other nonquantitative techniques for analyzing communication. Prerequisites: both COM 501 and 504 or ony instructor approval

COM 510 Interpersonal Communication Theory and Research. (3)*once a year*

Contemporary theories and research in interpersonal communication. Prerequisites: both COM 501 and 504 or ony instructor approval

COM 512 Death, Society, and Human Experience. (3)*not regularly offered*

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

COM 521 Rhetorical Criticism of Public Discourse. (3)*not regularly offered*

History and significance of rhetorical theory and critical forms in the analysis of public discourse. Prerequisites: both COM 501 and 504 or ony instructor approval

COM 584 Communication Internship. (1–12)*fall, spring, summer*

Fee

COM 596 Pro-Seminar in Communication. (0)*fall*

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

COM 604 Theory Construction in Communication. (3)*fall*

Review and analysis of philosophical problems inherent in communication research and of meta-theories designed to deal with these problems. Prerequisite: COM 504 or instructor approval

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

Analysis of issues in the practice of rhetorical communication research including critical forms and scholarship. Seminar

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

Statistical analysis of multivariate research data. Multivariate procedures used in communication research and methods of causal analysis. Prerequisites: COM 501 and 508 or the equivalent

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

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

COM 680 Practicum: Research in Communication. (3)

spring
 Guided practice in the conduct of communication research. Topics defined by format, procedures, formats, and ethics of publishing. Prerequisite: COM 604

COM 691 Seminar. (1-12)

fall, spring, summer
 Lecture, discussion on possible topics:
 (a) Current Organizational Approaches to Communication 3
 (b) Examination of Privacy and Disclosure 3
 (c) Intercultural Aspects of Communication 3
 (d) Interpersonal and Relational Communication 3
 (e) Research in Performance Studies 3
 (f) Rhetorical Issues 3
 (g) Social Influence 3
 Prerequisite: instructor approval.

COM 792 Research. (1-12)

not regularly offered

COM 799 Dissertation. (1-15)

not regularly offered

Walter Cronkite School of Journalism and Telecommunication

Joe S. Foote
Director
 (STAUF A231) 480/965-5011
 Fax 480/965-7041
www.asu.edu/cronkite

PROFESSORS

CRAFT CRONKITE DOG, FOOTE, GODFREY
 HALVERSON, MERRILL, SYLVESTER, WATSON YOUNG

ASSOCIATE PROFESSORS

ALLEN, BARRETT, BRAMLETT SOLOMON, GALIC AN
 HOY LENTZ MATERA, RUSSELL, RUSSOMANNO

CLINICAL PROFESSORS

ITULE, LEIGH

LECTURERS

CASAVANTES, NICHOLS WONG

SENIOR ADMINISTRATIVE PROFESSIONAL

LEIGH

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; KASC radio; KAET TV; KAET TV Cactus State

Poll; and "Newswatch," a weekly student produced cable television news magazine program; and

3. off campus media work opportunities, including internships in print, broadcast, public relations, and visual journalism.

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

ADMISSION

Preprofessional Admission

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

Professional Program Admission

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

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. have met 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	SB	3
or MCO 190 Media and Society	SB	3
TCM 200 Fundamentals of Radio Television		3
TCM 201 Radio Television Writing	L	3

NOTE: For the General Studies requirement courses and codes such as L, SQ, C, and H) see General Studies page 78. For graduation requirements see "University Graduation Requirements" page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see "Classification of Courses," page 51.

TCM 235 Production Techniques	1
Total	1

* TCM 235 may be in progress at the time of application but must be completed before entering the professional program.

Journalism preprofessionals must complete the following courses:

JRN 201 Journalism Newswriting L	3
MCO 111 Introduction to Mass Communication SB or MCO 12 Media and Society SB	3
Total	6

To be considered for admission to the school's upper division professional program students must obtain an application form from the school office in STALF 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 concentrations in the broadcasting program: broadcast journalism or business management. Students select one of three areas of concentration 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 Accreditation Council

on Education in Journalism and Mass Communication its students are required to take a minimum of 90 semester hours in courses outside the majors 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.

B.A. REQUIREMENTS

All students are required to demonstrate proficiency in a language other than English: a spoken language or American Sign Language. Proficiency is defined as completing the second semester intermediate level, or higher, of a language other than English 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 111 Introduction to Mass Communication SB or MCO 120 Media and Society SB	3
MCO 401 Mass Communication Law L	3
TCM 201 Fundamentals of Radio Television	3
TCM 202 Radio Television Writing L	3
TCM 235 Production Techniques	3
Total	15

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

These courses are in addition to other degree requirements. See "University Graduation Requirements," page 74.

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 L	3
JRN 301 Reporting L	3
JRN 312 Introduction to Editing	3
MCO 101 Introduction to Mass Communication SB	3
MCO 120 Media and Society SB (3)	
MCO 402 Mass Communication Law L	3
MCO 418 History of Mass Communication SB, H	3
or MCO 421 News Problems (3)	
or MCO 430 International Mass Communication G (3)	
MCO 450 Visual Communication HU (3)	
Total	18

The student also must choose one concentration 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," page 74.

Related Field. Each student is required to complete a 12 semester hour related field to complement the courses taken in the major concentration 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 L...	3
JRN 301 Reporting L...	3
JRN 313 Introduction to Editing	3
JRN 351 Photojournalism I...	3
MCO 111 Introduction to Mass Communication SB or MCO 120 Media and Society SB	3
MCO 402 Mass Communication Law L	3
Approved elective	3
Total	18

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 L...	3
JRN 301 Reporting L	3
JRN 313 Introduction to Editing	3
JRN 351 Photojournalism	3
MCO 111 Introduction to Mass Communication SB or MCO 120 Media and Society SB	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 "General Studies," page 78, and the College of Public Programs course requirements found under "College Degree Requirements," page 468. 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.

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 the required course MCO 120 Media and Society and 12 additional semester hours of upper division ASU Main campus resident credit taken from a list of approved courses. The following courses are included:

MCO 408 History of Mass Communication SB, H	3
MCO 400 International Mass Communication G	3
MCO 450 Visual Communication HL	3
MCO 456 Political Communication SB	3
MCO 461 Race, Gender, and Media C	3
MCO 494 Special Topics	3

To take upper division courses, the student must be at least a sophomore (25 semester hours). To pursue the minor in Mass Communication, the student must maintain a minimum 2.00 overall GPA, 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. degrees 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)

fall, spring, summer
Writing news for the print media. Prerequisite: ENG 101 or 105, MCO 110 or 120. Successful completion of English proficiency requirement; demonstrated typing ability of 30 words per minute. *General Studies L*

JRN 301 Reporting. (3)

fall and spring
Fundamentals of news gathering, interviewing and in-depth reporting. Prerequisites: JRN 201, professional program admission school major. *General Studies*

JRN 313 Introduction to Editing. (3)

fall and spring
Copyediting and headline writing. Electronic editing on personal computer terminals. Prerequisites: RN professional program admission.

JRN 351 Photojournalism I. (3)

fall and spring
Taking developing and printing picture for newspaper and magazine production. A dead-line basis. Student should have their own camera. Prerequisites: JRN 201 (instructor approval), professional program admission.

JRN 401 Public Relations Techniques. (3)

fall and spring
Theory and practice of publicity, public relations and related techniques and procedure. Prerequisites: JRN 301 or TCM 315, professional program admission.

NOTE: For the General Studies requirement courses, and course numbers such as L, SQ, C, and H, see General Studies page 78. For graduation requirements, see "University Graduation Requirements" page 74. For an explanation of additional non-business courses offered but not listed in this catalog, see Classification of Courses page 51.

JRN 412 Editorial Interpretation. (3)*not regularly offered*

The press as a influence on public opinion. Role of the editor in analyzing and interpreting current events. Prerequisites: JRN 301 professional program admission

JRN 413 Advanced Editing. (3)*fa and spring*

Theory and practice of newspaper editing, layout and design, picture and story selection. Prerequisites: JRN 313 professional program admission

JRN 414 Electronic Publication Design. (3)*fa and spring*

Theory, organization and practice of layout, typography and design in traditional and multimedia publishing. Prerequisites: JRN 401 professional program admission

JRN 415 Writing for Public Relations. (3)*fa and spring*

Development of specific writing techniques for the practitioner in public relations agencies and divisions of major organizations. Prerequisites: JRN 401, professional program admission

JRN 417 Public Relations Campaigns. (3)*fa*

Theory, principles and literature of public relations and how they relate to audiences, campaigns, and ethics. Prerequisites: both JRN 401 and 415 or ony instructor approval professional program admission

JRN 420 Reporting Public Affairs. (3)*fa and spring*

Instruction and assignments in reporting the courts, schools, government, city hall, social problems, and other areas involving public issues. Prerequisites: JRN 301 professional program admission

JRN 440 Magazine Writing. (3)*fa and spring*

Writing and marketing magazine articles for publication. Prerequisites: JRN 301 or instructor approval professional program admission

JRN 451 Photojournalism II. (3)*fa and spring*

Theory and practice of photojournalism with emphasis on shooting, lighting and layout for the media. Prerequisites: JRN 351 professional program admission

JRN 452 Photojournalism III. (3)*fa and spring*

Advanced theory and practice of photojournalism with emphasis on the photo essay and illustrations in black and white and color. 2 hours lecture, 2 hours lab. Prerequisites: JRN 451 professional program admission

JRN 465 Precision Journalism. (3)*spring*

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, lab. Prerequisites: JRN 301 or instructor approval professional program admission

JRN 470 Depth Reporting. (3)*fa and spring*

Introduces strategies for writing in-depth newspaper or magazine articles. Lecture, lab. Prerequisites: JRN 301 professional program admission instructor approval

MASS COMMUNICATION (MCO)**MCO 110 Introduction to Mass Communication. (3)***fa and summer*

Organization, function and responsibilities of the media and adjunct services. Primary emphasis on newspapers, radio, television and magazines. Credit is awarded for only MCO 110 or 120. Prerequisites: ENG 101 or 105 or 107.

*General Studies SB***MCO 120 Media and Society. (3)***fa and spring*

Role of newspapers, magazines, radio, television, and motion pictures in American society. Credit is awarded for only MCO 120 or 110. Designed for nonmajors.

*General Studies SB***MCO 402 Mass Communication Law. (3)***fa spring summer*

Legal aspects of the rights, privileges and obligations of the press, radio, and television. Prerequisites: 7 hours major professional status in Broadcasting or Journalism.
General Studies L

MCO 418 History of Mass Communication. (3)*fa and spring*

American journalism from the 18th and 19th centuries 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)*spring*

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

MCO 430 International Mass Communication. (3)*fa and spring*

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)***fa and spring summer*

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)***fa and spring*

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)***spring*

Reading seminar designed to give students a probing examination of the interface between AHANA Americans and the mass media in the United States. Lecture/discussion. Cross-listed as AFR 460. Credit is awarded for only AFR 460 or MCO 460.

*General Studies C***MCO 463 Introduction to Media Statistics. (3)***fa and spring*

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

MCO 470 Issues Management and Media Strategy. (3)*fa*

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 Special Topics. (3)*not regularly offered***MCO 501 Newswriting and Reporting. (3)***fa*

Designed for graduate students in the M.M.C. program who have undergraduate degrees in journalism areas. Objective is to teach fundamentals of writing and reporting. Lecture/lab. Prerequisite: acceptance into M.M.C. graduate program.

MCO 503 Press Freedom Theory. (3)*spring*

Examine 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)*fa and spring*

Identifies research problems in mass communication. Overview of quantitative research construction. Attention to survey history, content analysis, experimental, and legal research methods.

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

Analyzes 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)

spr ng
 Mas med a as soc a nst tut ons part cu ar y nteract on w th govern ment and pub c Emphas s n cr t c sm and normat ve statements

MCO 530 Media Ethics. (3)

fa
 Eth ca convent ons and pract ces of pr nt and e ect onic med a as they relate to the government and pr vate sectors of the soc ety

MCO 531 Broadcast Journalism. (3)

spr ng
 News and nformat n pract ces of networks stat ons and ndustry Pract ce n wr t ng report ng and ed t ng w th emphas s on v deo Lec ture ab Prerequ s te MCO 501

MCO 540 Historical/Legal Methods. (3)

spr ng
 troduction to ega and h st r ca meth ds necessary to conduct qua tat ve ma s commun cat on research Prerequ s te M M C. grad uate student

MCO 560 Arizona Med'a Law. (3)

fa
 Case study approach of fr st amendment ssues, med a access, be confident a ty and nvas on of pr vacy as app ed to media organ za t ons n Ar zona Lecture sem nar

MCO 593 Applied Project. (1-12)

not regular y offered

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

fa and spr ng
 Structures and ut zat on of cab e ndustr a and nstruct ona te ev s on sate te and v deocassetes. Prerequ s tes: TCM 200 profes s na program adm ss on

TCM 437 Advanced TV Production. (3)

fa and spr ng
 Emphasizes d v dua p duct on projects of the student's own c n cept on and des gn ut zing stud o fed and postproduct on tech n ques Prerequ s tes TCM 235 profess onal program adm ss on

TCM 472 Broadcast Station Management. (3)

fa, spr ng summer
 Management princ p es and pract ces, nc ud g organ zat on proce dures po ces persone prob ems, and financ a aspects of stat on management Prerequ s tes TCM 332 profess ona program adm s so

TCM 475 Television Newscast Production. (3)

fa and spr ng
 Wr t ng report ng and product on of the te ev s on newscast Cap stone course of the broadcast journa sm emphas s. Prerequ s tes: profess onal program adm ss on n tructor approval

TELECOMMUNICATION (TCM)

TCM 200 Fundamentals of Radio-Television. (3)

fa spr ng summer
 Structure of te ecommun cat ons n the Un ted States h story regu a t on, organ zat on, w th emphas s on broadcast ng Re at onsh p to advert s g research and government agenc es Prerequ s tes MCO 110 r 120 , successfu comp et on of Eng sh pr fic ency requ re ment

TCM 201 Radio-Television Writing. (3)

fa spr ng summer
 Wr t ng for e ectron c med a news, and cont nu ty Prerequ s tes MCO 110 or 120 successfu comp et on of Eng sh prof ency requ re ment demonstrated typ ng ab l ty of 30 words per m nute
Genera Stud es L

TCM 235 Production Techniques. (3)

fa spr ng summer
 troduction to bas c concepts of aud o and v deo product on. ntro du es operat on of portab e cameras recorders m cr phones, ghts, ed t ng and postproduct on equ pment Prerequ s tes TCM 200, suc ce sfu comp et o f Eng sh prof c ency requ rement

TCM 300 Advanced Broadcast Newswriting. (3)

fa and spr ng
 Techn que and pract ce n news w t ng for br adcast and cab e app cat ons Prerequ s tes TCM 201; profess ona program adm ss on

TCM 315 Broadcast News Reporting. (3)

fa and spr g
 News and nformat on pract ces of networks, stat ns and ndustry Pra tce n wr t ng report ng and ed t ng w th emphas s on aud o Pre requ s tes: TCM 201, profess ona program adm ss on
Genera Stud es L

TCM 330 Advanced Broadcast Reporting. (3)

fa and spr ng
 News and nformat on pract ces f networks stat ons and ndustry Advanced pract ce n wr t ng report ng and ed t ng w th emphas s on v deo Prerequ s tes: TCM 300, profess onal program adm ss on.

TCM 332 Broadcast Programming. (3)

fa spr ng summer
 Programm g theory and eva uat on regu ation eth cs and respons b l ty es and bas cs of aud ence psychograph cs and effects Prerequ s tes. TCM 2 0 profess onal program adm ss: n

TCM 433 Broadcast Sales and Promotion. (3)

fa and spr ng
 Bas cs f e ectron med a market ng pract ces nc ud ng commerc a tme sa es techn ques and rad o/TV promot on fundamentals Prerequ s tes TCM 200 pr fess ona program adm ss on

School of Justice Studies

David Altheide
Interim Director
 (WILSN 331) 480/965-7682
 Fax 480/965-9199
www.asu.edu/copp/justice

REGENTS' PROFESSOR
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 ROMERO SCHNE DER ZATZ

ASSOCIATE PROFESSORS

BORTNER, LUJAN, R DING N

ASSISTANT PROFESSORS

ADELMAN BERNSTE N, HANSON, MENJ VAR

MISSION

Students pursuing the B.S. degree in Justice Studies 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 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 focus on theories of ustice and injustice in three principal areas.

1. crime and criminology,
2. law and society, and
3. social and economic justice

NOTE: For the General Stud es requ rement courses, and codes such as L SQ C and H see Genera Stud es " page 78 For graduat on requ rements see Un vers ty Graduat on Requ rements " page 74 For an exp anat on of addit ona omn bus courses offered but not sted n th s catalog see "Class f cat on of Courses " page 51

Courses are designed to provide students with a comprehensive understanding of the substantive issues with each of these three areas and of the interrelationship and continuity among them. 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 and sexuality, race and ethnicity, and social class.

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. Faculty members are 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 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.

Justice Studies students may achieve major status by (1) meeting the College of Public Programs major status admission requirements (see "Admission," page 466), and (2) completing all of the following courses with a 2.50 minimum average GPA and a minimum grade of "C" in each.

Choose between the course combinations below	6 or 3
ENG 101 First Year Composition I	3
ENG 102 First Year Composition II	3
— or —	
ENG 105 Advanced First Year Composition I	3
JUS 105 Introduction to Justice Studies	3
or JUS 303 Principles of Justice Studies	3
JUS 301 Research in Justice Studies	3
JUS 302 Basic Statistical Analysis: Justice Studies CS	3
JUS 303 Justice Theory	3
College writing competence requirement	3

ADVISING

Justice Studies students admitted as premajors are advised by one of the school's academic advisors. All students are encouraged to seek advising 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 more information, call the school at 480-965-7687.

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 JUS course work is required, including JUS 105 or 303 and JUS 303. No pass/fail or credit/non-credit course work may be applied to the minor. A minimum of three semester hours must be resident credit at ASU Main, 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 award 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 credits;
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., electives); 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, see "General Studies," page 78. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses. The school implements the ASU core nucleus enrollment policy for First Year Composition and the university mathematics MA requirement.

MAJOR REQUIREMENTS

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	.3
or JUS 303 Principles of Justice Studies	3	
JUS 301 Research in Justice Studies	3	

JUS 302 Basic Statistical Analysis Justice Studies CS	5
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. The faculty encourage students interested in criminal justice issues and career areas to take JUS 100 The Justice System

Electives. The faculty encourage students 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. Specifically, the faculty suggest that students take a minimum of one course in American government, behavioral psychology, and sociology.

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.

GRADUATE PROGRAMS

The faculty in the School of Justice Studies offer a M.S. degree in Justice Studies, which can be earned with a current M.A. degree in Anthropology. The faculty in the School of Justice Studies are also the primary contributors to the interdisciplinary Ph.D. degree in Justice Studies. For more information, see the *Graduate Catalog*.

JUSTICE STUDIES (JUS)

JUS Note 1. For Justice Studies students to take an unreduced 300 level JUS course they must have at least a C- grade. If the required JUS courses JUS 105 or 305, 301, 302, and 303 and a minimum average GPA of 2.50 for these four cases. Freshman Justice Studies students to take a 300 level JUS course they must have a minimum of 56 earned semester hours or status and a minimum cumulative GPA of 2.00. Non Justice Studies students may take JUS 301, 302, and 303 with approval.

JUS Note 2. For non Justice Studies students to take a 400 level JUS course they must have a minimum of 56 earned semester hours (junior or status) and a minimum cumulative GPA of 2.5.

JUS 100 The Justice System. (3)

fall, spring, summer
 Overview of the justice system. Role of law enforcement personnel, the courts, and correctional agencies. Philosophy and ethical views in historical perspective.
General Studies SB

JUS 105 Introduction to Justice Studies. (3)

fall, spring, summer
 Introductory overview to the study of justice from a social science perspective. Primary topics include justice theories and justice research. Credits awarded for only JUS 105 or 305 or AFR 305. Appropriate for freshmen and sophomores. Lecture/discussion. Cross-listed as AFR 105. Credits awarded for only AFR 105 or JUS 105.

JUS 200 Topics in Concepts and Issues of Justice. (3)

once a year
 Uses critical thinking skills to analyze and comprehend controversial issues. Examples include abortion, affirmative action, capital punishment, estate tax, and immigration. May be repeated for credit when topics vary.
Lecture/discussion
General Studies SB

JUS 294 Special Topics. (1-3)

fall, spring, summer
 Topics chosen from various fields of justice studies.

JUS 301 Research in Justice Studies. (3)

fall, spring, summer
 Focus on developing and evaluating research designs, data collection, and the relationship between validity and reliability. Strategies meet with research. Prerequisite: Justice Studies 101.

JUS 302 Basic Statistical Analysis in Justice Studies. (3)

fall, spring, summer
 Introduction to the fundamentals and application of descriptive and inferential statistics with emphasis on the utility area. Prerequisite: Intermediate Algebra or higher.
General Studies CS

JUS 303 Justice Theory. (3)

fall, spring, summer
 Examines classic and contemporary philosophies and theories of justice. Includes Hegel, Rawls, and criminal justice. See US Note 1.

JUS 305 Principles of Justice Studies. (3)

fall, spring, summer
 Introduction to the study of justice from a social science perspective. Primary topics include theories and justice research. Credits awarded for only JUS 305 or 305 or AFR 105. Appropriate for juniors and seniors. Lecture/discussion. Cross-listed as AFR 305. Credits awarded for only AFR 305 or JUS 305. See US Note 1.

JUS 306 Police and Society. (3)

once a year
 Focus on community policing, racial inquiry of administrative decision-making perspectives, police/citizen violence, street practices, urban policing, lecture/discussion. See US Note 1.

JUS 308 Courts and Society. (3)

once a year
 History and development of courts. Relationship between dispute resolution, norms and cultural structures/practices in which they are embedded. Lecture/discussion. Prerequisite: Justice Studies 101. See US Note 1.

JUS 310 Corrections and Justice. (3)

once a year
 Examines the United States prison conditions of offenders, issues, and gangs, drunk driving, racial discrimination, and intermediate punishment. Lecture/discussion. See US Note 1.

JUS 311 Crime, Prevention, and Control (3)

once a year
 Examines prevention and control of crime. Overview of contemporary theories, justice agency procedures, and social policy. Lecture/discussion. See US Note 1.

JUS 320 Community and Social Justice. (3)

once a year
 Discusses and analyzes definition of community, impact of various models of behavior, process of community organization for empowerment. Lecture/discussion. See US Note 1.
General Studies SB C

JUS 321 Wealth Distribution and Poverty (3)

once a year
 Examines wealth and income distribution in the United States and analyzes demographic and political forces producing an increasingly unequal society. Lecture/discussion. Cross-listed as AFR 321. Credits awarded for only AFR 321 or JUS 321. See US Note 1.
General Studies SB C

JUS 329 Domestic Violence. (3)

once a year
 Legal, historical, theoretical, and treatment aspects of domestic violence. Includes child abuse, woman battering, incest, and marital rape. Lecture/discussion. See US Note 1.

NOTE: For the General Studies requirement codes and codes such as L, SQ, C, and H, see General Studies page 78. For graduate requirements, see University Graduate Requirements, page 74. For an explanation of additional minimum business courses offered but not listed in this catalog, see Catalog of Courses' page 51.

JUS 335 Organized Crime. (3)*once a year*

Nature of organized crime and its legal activities theories of containment and efforts by state agencies to counter its dominance in society. Lecture/discussion See JUS Note 1

JUS 345 White Collar Crime. (3)*once a year*

Basic white collar crimes and categories causes and effects mechanism and contexts of operation; social and criminological responses. Lecture/discussion See JUS Note 1

JUS 350 Immigration and Justice. (3)*fall spring, summer*

Examines immigration policy history of immigration, refugee issues, labor force participation gender family children social networks, and transnationalism. Lecture/discussion See JUS Note 1

*General Studies SB C***JUS 360 Law and Social Control. (3)***once a year*

Resolution of social issues through the application of law as an agent of social control. Natural sanctions and limits of law. Categories of law and schools of jurisprudence. Lecture/discussion See JUS Note 1

*General Studies SB***JUS 365 Substantive Criminal Law. (3)***once a year*

Criminal law: personal property, and society. Legal analysis: primary appellate judicial process; substantive criminal law issues trial court determinations. Lecture/discussion See JUS Note 1

JUS 368 Procedural Criminal Law. (3)*once a year*

Due process with respect to individual liberty privacy and government. *power emphasis* *nbad* *deas of potica* and *soc a theory*. Lecture/discussion See JUS Note 1

JUS 375 Crime and the Mass Media. (3)*once a year*

Surveys the impact of mass media and popular culture on crime. Processes and dynamics. Lecture/discussion See JUS Note 1

*General Studies SB***JUS 385 Justice and Everyday Life. (3)***once a year*

Justice and justice in everyday life and how small things can be meaningful. Role of language and interaction in social order. Lecture/discussion See JUS Note 1. Prerequisites: JUS 105 or 305/301/302/303

*General Studies SB***JUS 394 Spec a Top cs. (1-3)***once a year*

Topical issues from various fields of justice. Lecture/discussion See JUS Note 1

JUS 404 Imperatives of Proof. (3)*once a year*

Scientific evidence of proof establishing fact and identity in the justice system. Lecture/discussion See JUS Note 2

*General Studies***JUS 405 Economic Justice. (3)***fall and spring*

Addresses economic issues and justice implications including the interplay among economic conditions race ethnicity class and gender. *rdw de* *ecture* *dscuss on* See JUS Note 2

*General Studies SB G***JUS 410 Punishment: Logic and Approach. (3)***once a year*

Analyses form of punishment how and why they have changed. Areas include philosophy history and social structure of punishment. Lecture/discussion See JUS Note 2

JUS 415 Gender and International Development. (3)*once a year*

Examines the ways in which international development is gendered as well as women's rights as human rights. *n b th nat na and interna* *to a arena*. Lecture/discussion See JUS Note 2

*General Studies L G***JUS 420 Women, Work, and Justice. (3)***once a year*

Examines gender inequality in the workplace including the nature of women's work the related issues and models for promoting gender justice at work. Lecture/discussion See JUS Note 2

*General Studies SB C***JUS 422 Women, Law, and Social Control. (3)***once a year*

Examines social economic and legal factors that are relevant to mechanisms of social control of women including formal legal control and informal control through violence. See JUS Note 2

JUS 425 Race, Gender, and Crime. (3)*once a year*

Critical examination of theories research findings policies and controversies concerning race ethnicity gender, and crime. Lecture/discussion See JUS Note 2

*General Studies L/SB C***JUS 430 Social Protest, Conflict, and Change. (3)***fall spring summer*

Analyses historical and contemporary protest movements advocating equity based on race gender and sexual orientation. Lecture/discussion See JUS Note 2

*General Studies L/SB C***JUS 440 Administration and Justice. (3)***once a year*

Diversity: sue/procedure justice and service delivery relationships between state and economic forces including processes of regulation state administrative apparatuses. Lecture/discussion See JUS Note 2

*General Studies L***JUS 450 Alternatives to Incarceration. (3)***once a year*

Investigates various alternatives to incarceration advantages and disadvantages major issues including net widening cost effectiveness risk assessment, community crime prevention. Lecture/discussion See JUS Note 2

*General Studies L***JUS 460 Feminism and Justice. (3)***once a year*

Explores feminist thought and critiques traditional patriarchal theories. Examines issues of racism sexuality and the law. Lecture/discussion See JUS Note 2

JUS 463 Discretionary Justice. (3)*once a year*

Use abuse key issues manifestatons *fdscrt n n* *ega system and* other societal institutions. Theoretical empirical linkages between discretion and discretionary based on race ethnicity and gender. Lecture/discussion See JUS Note 2

*General Studies SB***JUS 465 Death Penalty in the United States. (3)***fall spring summer*

Focuses on capital punishment in the United States. Explores negotiation of law politics morality, public policy and culture. Lecture/discussion See JUS Note 2

*General Studies L***JUS 469 Political Deviance and the Law. (3)***once a year*

Examines the controversies created by political and deviant behavior including a review of law as an agent of social control. Lecture/discussion See JUS Note 2

*General Studies L/SB C***JUS 470 Alternative Dispute Resolution. (3)***once a year*

Critical examination of the tenets of a tentative dispute resolution movement explores the programs of ADR including community and court-based. Lecture/discussion See JUS Note 2

*General Studies SB C***JUS 474 Legislation of Morality. (3)***once a year*

Addresses historical and contemporary issues related to social justice movements. Law and morality in a pluralistic society. Issues include AIDS burials rights of the disabled poverty prostitution and racial discrimination. See JUS Note 2

General Studies L/SB C

JUS 477 Youth and Justice. (3)*once a year*

Critical examination of youth-related social issues including economic justice, violence against youth, delinquency and the juvenile justice system. Lecture, group work, film. See JUS Note 2.

*General Studies L/SB***JUS 479 Law and Disputing. (3)***fall and spring*

Critical analysis of the controversies created by disputes, law and other forms of social control. Lecture, discussion. See JUS Note 2.

*General Studies SB***JUS 484 Internship. (3-6)***fall, spring, summer*

Assignments in a justice-related placement designed to further the student's integration of theory and practice. Internships are arranged through consultation of students with placements. Students must consult with the chair for appropriate application and registration procedures. May be repeated for credit for a total of 12 semester hours if which a maximum of 6 are applied to the major. Fee. See JUS Note 2.

Prerequisites: major status, Justice Studies student

JUS 494 Special Topics. (1-3)*once a year*

Topics chosen from various fields of justice studies. Lecture, discussion. See JUS Note 2.

JUS 498 Pro-Seminar. (1-3)*fall, spring, summer*

Small group study and research for advanced students. May be repeated for credit for a total of 9 hours of which a maximum of 3 are applied to the major. See JUS Note 2. Prerequisites: major status, minimum cumulative GPA of 3.0, instructor approval.

JUS 499 Individualized Instruction. (1-3)*fall, spring, summer*

Organized study or investigation in the advanced student's field of interest under the supervision of a faculty member. May be repeated for credit for a total of 6 hours as applicable to the major. Readings, conferences, tutorials. Prerequisites: major status, minimum GPA in JUS courses of 3.0, senior standing; instructor approval.

JUS 500 Justice Research Methods. (3)*once a year*

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

JUS 501 Justice Theory. (3)*once a year*

Theories and philosophy of social economic, political, and criminal justice. Applications of the relevant to contemporary justice issues. Lecture, discussion.

JUS 503 Crime and Social Causation. (3)*once a year*

Theories of deviance and crime as they relate to social policies and specific responses. Interdisciplinary complex.

JUS 509 Statistical Problems in Justice Research. (3)*once a year*

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

JUS 510 Understanding the Offender. (3)*once a year*

Survey of emerging personality and biological theories of causation and their relevance to understanding criminal and delinquent behavior.

JUS 514 Justice Policy. (3)*once a year*

Assessment of the political aspects of justice policy as well as an understanding of the basic available to social scientists for analyzing the formation, implementation and evaluation of justice policy.

JUS 515 Comparative Justice. (3)*once a year*

Focuses on justice, equality and human rights cross-culturally. Examines both the theoretical and methodological issues. Seminar.

JUS 520 Qualitative Theory and Data Collection. (3)*once a year*

Basic theoretical 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)*once a year*

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)*once a year*

Provides a broad overview of American Indian and Alaskan Native issues of justice and justice in contemporary society.

JUS 547 Program Evaluation. (3)*once a year*

Nature and types of program evaluation, program monitoring, impact and process assessment, evaluability assessment, methods, utilization and politics of evaluation. Lecture, lab. Prerequisites: JUS 500 recommended.

JUS 550 Alternatives to Incarceration. (3)*once a year*

Investigate various alternatives to incarceration, advantages and disadvantages, major issues including net widening, cost effectiveness, risk assessment, community crime prevention. Lecture, research.

JUS 560 Women, Law, and Social Control. (3)*once a year*

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

JUS 570 Juvenile Delinquency. (3)*once a year*

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

JUS 571 Juvenile Justice System. (3)*once a year*

Graduate-level introduction to juvenile justice system including historical development, philosophy, criminal organization, structure and contemporary controversies.

JUS 575 Race, Gender, and Crime. (3)*fall and spring*

Current theoretical and methodological debates and controversies regarding race, ethnicity, gender, class, crime and the criminal justice system, policy implications. Seminar.

JUS 579 Political Deviance. (3)*once a year*

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)*fall, spring, summer*

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

JUS 588 Justice and the Mass Media. (3)*once a year*

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

JUS 591 Seminar. (1-3)*once a year*

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

JUS 593 Applied Project. (1-12)*not regularly offered***JUS 610 Law and the Social Sciences. (3)***once a year*

Analyzes the theoretical grounds underlying diverse studies of law and society, creation and administration of law and jurisprudence and politics.

NOTE: For the General Studies requirement courses and codes such as L, SQ, C and H, see General Studies' page 78. For graduation requirements, see University Graduation Requirements' page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Catalog of Courses" page 51.

JUS 620 Justice Research and Methods. (3)*once a year*

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)*once a year*

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

JUS 640 Theoretical Perspectives on Justice. (3)*once a year*

Analyzes philosophical perspectives of justice, linkage between social science theory and justice constructs, application of justice to social issues.

JUS 650 Advanced Qualitative Data Analysis. (3)*spring*

Advanced qualitative data collection and analysis techniques including ethnography, in-depth interviews, field notes, coding, transcribing, content analysis, text analysis. Seminar.

JUS 669 Political Trials and Indigenous Justice. (3)*once a year*

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

JUS 691 Seminar. (1-3)*fall, spring, summer*

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

School of Public Affairs

Jeffrey Chapman

Director

(WILSN 208) 480/965-3926

Fax 480/965-9248

spa.asu.edu

PROFESSORS

CAYER, CHAPMAN, COOR, J. DENHARDT,
R. DENHARDT, HALL, MANKIN, McGAW, PERRY

ASSOCIATE PROFESSORS

ALOZIE, BROWN, CAMPBELL, DeGRAW, LAN

ASSISTANT PROFESSORS

DeLORENZO, McCABE

DISTINGUISHED RESEARCH FELLOW

PFISTER

The faculty in the School of Public Affairs offer an undergraduate public administration concentration of 18 semester hours of course work within the Bachelor of Interdisciplinary Studies program. The school also offers a 15 semester hour certificate program in Public Administration and Public Management. The certificate prepares students for citizenship, leadership, and careers in governmental agencies and nonprofit associations. To meet certificate requirements, students take four core courses (PAF 300, 340, 420, and 460) and one elective course. The list of approved electives may be obtained by visiting the School of Public Affairs Student Services Office in WILSN 225A, or by calling 480 965 1037.

Public Administration and Management Certificate

PAF 300 Public Management and Administration	3
PAF 340 Public Management and Policy	3
PAF 420 Public Leadership	3
PAF 460 Public Service Ethics	3
Elective	3
Total	15

The school also offers a 42 semester hour professional Master of Public Administration degree and the Doctor of Philosophy degree. The MPA degree is accredited by the National Association of Schools of Public Affairs and Administration. Consult the *Graduate Catalog* for information about the programs.

PUBLIC AFFAIRS (PAF)**PAF 300 Public Management and Administration. (3)***fall and spring*

Examines the context and role of the public manager and the development of the field of public administration.

PAF 340 Public Management and Policy. (3)*fall and spring*

Develops conceptual, critical, and practical understanding of policy, the policy process, and policy analysis.

PAF 401 Statistics. (3)*fall and spring*

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

PAF 420 Public Leadership. (3)*fall and spring*

Examines key concepts, models, and strategies for leading public and nonprofit organizations, emphasizing self-knowledge, skills, and attitudes for effective leadership.

PAF 460 Public Service Ethics. (3)*fall and spring*

Role, values, and issues of public management in democratic governance: citizen participation, power structures, and professional codes of conduct.

PAF 501 Public Service Research. (3)*fall and spring*

Philosophy, scope, and methods of public service research design and analysis. Prerequisite: an approved course in statistics.

PAF 502 Computer Applications. (3)*fall and spring*

Computer applications in public affairs: software packages for data analysis, decision making, information dissemination, and problem solving. Prerequisite: PAF 501.

PAF 503 Public Affairs. (3)*fall and spring*

Development and context of American public administration: a discipline, role of administration in governance and values, and ethics in administration.

PAF 504 Public Affairs Economics. (3)*fall and spring*

Basics of public sector economics: microeconomics and macroeconomics concepts applied to public sector decisions and policies.

PAF 505 Public Policy Analysis. (3)*fall and spring*

Institutional and formal analysis of policy processes, decision making, and problem solving, values, ethics, and the uses of policy analysis. Prerequisites: PAF 504 and satisfaction of the statistics requirement.

PAF 506 Public Budgeting and Finance. (3)*fall and spring*

Legislation, economic policy, institutional, and ethical foundations of governmental finance: budgets, and budgeting. Prerequisites: PAF 502, 504.

PAF 507 Public Human Resource Management. (3)*fall and spring*

Personnel systems, behavior, and management of personnel in public organizations: collective behavior, union management, motivation, productivity, and ethics.

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PAF 508 Organization Behavior. (3)

fall and spring
Theory and application in the management of organizational behavior with emphasis on leadership and the public service

PAF 509 Public Service. (3)

fall and spring
Capstone application, core course knowledge, skills, abilities required for public service. Prerequisites: PAF 501 502 503 504 505, 506 507 508

PAF 510 Governmental Budgeting. (3)

not regularly offered
Theories, applications and consequences of budget decisions on making Prerequisite: PAF 504

PAF 511 Governmental Finance. (3)

not regularly offered
Sources of funding, management of funds and debts and general character of expenditures in states, counties, cities and districts. Prerequisite: PAF 504

PAF 520 Public Management. (3)

not regularly offered
Management process, government and public agencies, with emphasis on the executive leadership within the public sector

PAF 521 Organization Theory. (3)

not regularly offered
Organization theory and current research emphasis with application to public administration and organizational issues

PAF 522 Public Labor Relations. (3)

not regularly offered
Role of public unionism, manager's policy toward unionism, conflict resolution, impact of unionism on budgets, personnel policies and public policy.

PAF 523 The City and County Manager. (3)

once a year
Manager's role and resources in the different forms of administrative legislation and community sectors

PAF 525 Public Program Management. (3)

not regularly offered
Governmental service programming formulation, financing, operating evaluation, and reporting. Analyze interagency relations on hips and the role and conduct of research in the programming process

PAF 526 Public Sector Human Resource Development. (3)

not regularly offered
Concepts and techniques of organizational development in the public sector, including staffing, supervisory training, executive development, resource planning and employee training

PAF 529 Organization Change and Development (3)

not regularly offered
Explores the nature and management of change and development as a tool to achieve organizational goals, effecting planned change

PAF 530 Management of Urban Government (3)

not regularly offered
Administration and behavior within the urban political administration and environmental functional areas such as citizen participation, urban planning, urban transportation and the conflicts between urban politics and administration effectiveness

PAF 531 Community Conflict Resolution. (3)

not regularly offered
Interdisciplinary approach to understanding the dynamics of community conflict. Strategic considerations in policy design and advocacy potential, reaction to conflict. Relevant model and research findings generated by both case studies and comparative methods

PAF 532 Urban Planning Administration. (3)

not regularly offered
History and present day uses of urban planning and procedures for implementation on Basic Principles and Practices

PAF 533 Urban Growth Administration. (3)

not regularly offered
Examines the processes of urban growth and change. Emphasizes partnership role played by public and private sectors in management.

PAF 535 Urban Housing Policy. (3)

not regularly offered
Comprehensive consideration of the revitalization of American cities with major emphasis upon the housing process and related institutions and services

PAF 536 Urban Policy Making. (3)

not regularly offered
Analyzes the opportunities and costs of influencing public policy and the effects of local and bureaucratic decisions on making

PAF 540 Advanced Policy Analysis. (3)

once a year
Emphasizes the structure of policy problems, forecasting policy alternatives, optimizing resources and reducing uncertainty in policy making. Prerequisite: PAF 505. Instructor approval

PAF 541 Program Evaluation. (3)

not regularly offered
Various methods of evaluation for the evaluation of public policies and programs. Prerequisite: PAF 511. Instructor approval

PAF 546 Environmental Policy and Management. (3)

not regularly offered
Analyzes environmental policy and planning issues and principles related to the analysis and management of natural and urban regions

PAF 547 Science, Technology, and Public Affairs. (3)

not regularly offered
Influence of science and technology on governmental policymaking. Insights as administrators and advisors. Governmental policymaking for science and technology. Government as a sponsor of research and development

PAF 548 Women, Politics, and Public Policy. (3)

not regularly offered
Explores how political philosophy and public policy affect and are affected by women

PAF 549 Diversity Issues and Public Policy. (3)

not regularly offered
Examines public policy issues concerning or affecting women, black, Latino, Asian and American and communities as well as those groups impacted in the policy process

PAF 550 Information Management. (3)

not regularly offered
Concepts and theory of information and information technology in public sector organizations

PAF 551 Computers in Administration. (3)

not regularly offered
Experience in use of computer technology for public administration problem solving

PAF 552 Public Information Systems. (3)

not regularly offered
Systems analysis concepts and theory as applied to administration. Alternative modes of information organization and their impact on public decision making

PAF 555 Research Data Management. (3)

not regularly offered
Techniques and problems associated with data management in a research environment. Database management systems, security and integrity, accessibility and cost

PAF 556 Database Management Systems. (3)

not regularly offered
Concept and use of modern database management systems in an administration organization. Advantages and disadvantages of this approach

PAF 561 Comparative Administration (3)

not regularly offered
Literature on comparative public administration. Theory, behavior and the impact on the political development process. Selected nations

NOTE: For the General Studies requirement courses and codes see "General Studies" page 78. For graduation requirement see "University Graduation Requirements" page 74. For an explanation of additional online courses offered but not listed in this catalog see "Classification of Courses" page 51.

PAF 562 Intergovernmental Relations. (3)*once a year*

Evolution, growth, present status, and characteristics of the U.S. federal system of government. Federal-state relations, state-local relations, regionalism, councils of government, interstate cooperation, grants-in-aid, and revenue sharing.

PAF 563 Report Preparation. (3)*not regularly offered*

Intensive practice in written and oral presentation of reports to conferences with problems in public administration. Visual aid techniques.

PAF 564 Political Economy. (3)*once a year*

Classical and contemporary literature and historical development of governmental and economic arrangements, with special emphasis on the role of the state.

PAF 591 Seminar. (1-12)*fall and spring*

Possible topics:

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

PAF 600 Research Design and Methods. (3)*once a year*

Advanced methods of research design and data collection. Prerequisites: formal graduate-level course work in statistics and in research methods.

PAF 601 Seminar: Policy Analysis and Evaluation. (3)*once a year*

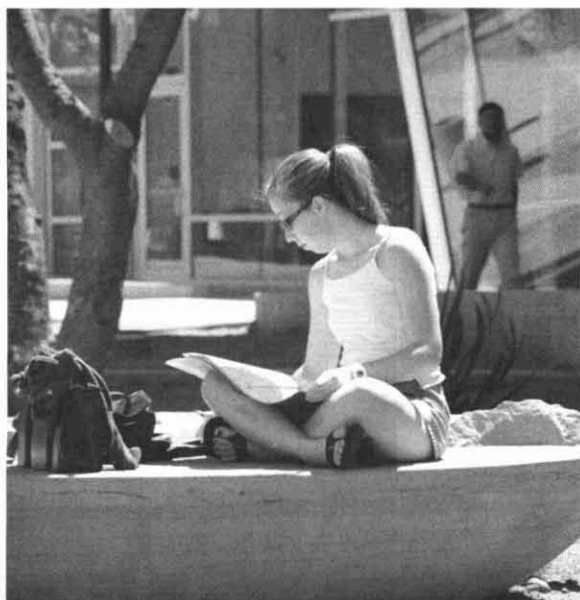
Normative and conceptual issues of policy formulation, implementation, and evaluation; methods of policy analysis and evaluation.

PAF 602 Seminar: Foundations of Public Administration. (3)*once a year*

Ethical, social, legal, and philosophical foundations of public administration.

PAF 603 Seminar: Organization and Behavior in the Public Sector. (3)*once a year*

Structure, organization, conduct, and performance of public sector institutions in the administration of public policy. Prerequisite: PAF 602.



Sunshine and study go hand in hand at ASU year round.

Tim Trumble photo

Department of Recreation Management and Tourism

Randy J. Virden

Chair

(MOEUR 131) 480/965-7291

Fax 480/965-5664

www.asu.edu/copp/recreation

PROFESSORS

ALLISON, HALEY, YOSHIOKA

ASSOCIATE PROFESSORS

SCHNEIDER, TEYE, VIRDEN

ASSISTANT PROFESSORS

ASHCRAFT, BAKER, BROWN, LeCLERC,
MARTINEZ, PRITCHARD, SONMEZ, TIMOTHY

RECREATION—B.S.

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

This multidisciplinary degree program is designed to provide the student with the competencies necessary for employment in management and program delivery positions in diverse leisure agencies such as municipal recreation and park departments, county park departments, YMCAs, YWCAs, Boys and Girls Clubs of America, and other nonprofit agencies, visitor and convention bureaus, senior centers, retirement communities, resorts, 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 Humanities). In addition to the 33 semester hours of major core classes, these concentrations consist of 15 semester hours of recreation-related courses and 15 semester hours of related-areas courses.

Therapeutic Recreation. 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 students for careers in clinical and community settings, working with 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 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 these tracks is available from the academic advisor.

DEPARTMENTAL MAJOR REQUIREMENTS

Students may declare Recreation as their major but can not register for upper division core classes without *professional status*. To be officially admitted with professional status to the B.S. degree program in Recreation students must

1. meet the College of Public Programs major status admission requirements see "Admission," page 466 ;
2. complete REC 120 and 210 with a grade of "C" or higher;
3. complete either COM 225, 241, or 259, and
4. have a "C" or higher in ECN 112, if pursuing the tourism concentration

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

To graduate, students must complete the university General Studies requirement and the College of Public Programs course requirements in addition to major requirements

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 <i>SB</i>	3
REC 210 Leisure Delivery Systems	3
REC 330 Programming of Recreation Services <i>L</i>	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

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 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 ASU Main students must be received from the Department of Recreation Management and Tourism office at ASU Main

A student must attain a grade of "C" or higher in a 1 courses within the major, including the related area. Specific courses that may be used to fulfill the related requirements are listed on check sheets 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.

MINORS

The department offers minors in Recreation Management and in Tourism. The minor in Recreation Management consists of REC 120 Leisure and the Quality of Life, REC 160 Leisure and Society, and 15 additional semester hours of approved course work, including 12 semester hours at the upper division level, from ASU Main. The Tourism minor consists of REC 120 Leisure and the Quality of Life and 12 additional semester hours of upper division approved courses from ASU Main

CERTIFICATE PROGRAM

Nonprofit/Youth Agency Administration: American Humanics Certificate Program. The certificate program in American Humanics is education and preparation for leadership and management positions in nonprofit youth and human service organizations. The program features professional affiliation with and certification by American Humanics, Inc., the nation's leader in education for nonprofit careers. American Humanics collaborates with several nonprofit organizations including American Red Cross, Big Brothers Big Sisters, Boys and Girls Clubs, Boy Scouts, Camp Fire Boys and Girls, Girl Scouts, Habitat for Humanity, Junior Achievement, the United Way, YMCA, and YWCA.

This program features an academic and experiential approach that highlights the unique issues of nonprofit organization management with a particular emphasis in youth development agencies. The program includes active participation by nonprofit professionals who offer workshops, seminars, mentoring, and field trips. American Humanics national certification can be earned in conjunction with any baccalaureate degree.

REC 220 Introduction to Nonprofit Youth and Human Service Agencies	3
REC 300 Fund Raising	3
REC 310 Volunteering	3
REC 320 Youth and Human Service Workshop	4
REC 420 American Humanics Institute	2
REC 430 Marketing Nonprofit Agencies	3
REC 463 Senior Internship	12
Minimum total	30

REC 32 is taken four semesters for one semester hour each term

NOTE: For the General Studies requirement courses, and courses such as L, SQ, C and H see General Studies page 78. For graduation requirements see University Graduation Requirements page 74. For an explanation of additional omnibus courses offered but not listed in this catalog see Classification of Courses, page 51.

GRADUATE PROGRAM

M.S. Degree in Recreation. The curriculum for the M.S. degree in Recreation is designed to help students achieve both academic and professional goals. Areas of study include outdoor recreation, recreation administration, social/psychological aspects of leisure, and tourism and commercial recreation. Students may complete a thesis or professional option. Information on the M.S. degree in Recreation is detailed in the *Graduate Catalog*.

RECREATION MANAGEMENT AND TOURISM (REC)

REC 120 Leisure and the Quality of Life. (3)

fall spring summer

Conceptual foundations for understanding the role of leisure, the quality of life, social, historical, psychological, cultural, economic and political foundations of pay recreation and leisure.

General Studies SB

REC 150 Outdoor Pursuits. (3)

summer

Theoretical and practical applications related to outdoor recreation pursuits. Interdisciplinary approach to wilderness issues and philosophical culminating in an outdoor experience. Field trip required.

REC 160 Leisure and Society. (3)

once a year

Analyzes 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)

fall and spring

Introduction to development, management, and organization of the public, not-for-profit, and private sectors of the leisure services professions. Organized into five modular units that study the delivery of services in the recreation and tourism professions. Lecture, team taught.

Prerequisite: Recreation major. Prerequisite: REC 120.

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

fall and spring

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 230 Camp Administration. (3)

spring

Historical and philosophical foundations of the organized camping movement in America, trends and issues, camp administration and leadership.

REC 235 Service Learning for Youth Development. (3)

fall and spring

Applies youth development theories and approaches through a community service immersion in collaboration with other non-profit partners. Case studies, small group discussion. Prerequisite: instructor approval.

REC 300 Fund Raising. (3)

once a year

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)

fall and spring

Examines the components of the travel and tourism industry at the state, national, and global levels.

General Studies G

REC 310 Volunteerism. (3)

once a year

Administering of volunteer service programs. Studies and analyzes the volunteer personnel process.

REC 315 Community Recreation Systems (3)

spring

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

REC 320 Youth and Human Service Workshop. (1)

fall and spring

Professional seminar featuring guest professionals, speakers on non-profit industry leadership. Focus on exchange between students and professionals. May be repeated for credit. Prerequisite: instructor approval.

REC 325 Tourism Accommodations (3)

once a year

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

REC 330 Programming of Recreation Services. (3)

fall and spring

Foundations for effective program planning. Invariance delivery systems. Prerequisite: Recreation professional status.

General Studies L

REC 340 Outdoor Survival. (3)

once a year

Interdisciplinary approach to outdoor survival, including attitudes, psychological, stress, physiological, stress preparation, hypothermia, navigation, first aid, and wilderness field trip required.

REC 345 Meeting and Convention Planning. (3)

once a year

Basic aspects and skills in planning meetings and conventions, industry and market overview of certified meeting planners. Prerequisite: REC 35.

REC 350 Promoting and Marketing Recreation Services (3)

fall and spring

Basic principles of promoting recreation services and strategic focus on promoting and marketing concepts as they apply to recreation in tourism settings. Prerequisite: Recreation professional status.

REC 364 Foundations of Therapeutic Recreation. (3)

fall and spring

Introduction to special recreation and the 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)

fall

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

REC 372 Tourism Planning. (3)

fall and spring

Applies economic and regional development concepts and theories to destination product development. Prerequisite: REC 305. Recreation major or minor.

REC 380 Wilderness and Parks in America. (3)

fall and spring

Examines the American Conservation Movement and the relationships between the environment and recreation behavior.

General Studies SB H

REC 390 Adaptive Aquatics. (3)

not regularly offered

Focuses on developing aquatic programs for the mentally and physically challenged. Lecture/lab.

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

once a year

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

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

fall and spring

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

REC 415 Tourism Transportation Systems. (3)

once a year

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

REC 420 American Humanics Institute. (1-2)

fa and spr ng

National Management Institute for preparation of youth development and nonprofit professionals. Out-of-state conference includes seminars and case studies. May be repeated for credit. Prerequisite: instructor approval.

REC 430 Managing Nonprofit Agencies. (3)

spr ng

Analyzes administrative structure decisions making, and program delivery with nonprofit youth and human service agencies. Prerequisite: REC 220 senior standing.

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

once a year

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

REC 458 International Tourism. (3)

fa and spr ng

Global examination of international tourism and its significance as a vehicle for social and economic development.

Genera Studies G

REC 460 Clinical Issues in Therapeutic Recreation. (3)

once a year

Explores contemporary problems issues confronting the therapeutic recreation field includes philosophical historical practice, management, research and educational issues. Lecture off campus. Prerequisites: both REC 364 and 400 or instructor approval.

REC 462 Management of Recreation Services. (3)

fa and spr ng

Basic principles of administration and the application in successful administration versus situations. Analyzes administrative function structure and policies. Prerequisite: REC 330 Recreation professional status.

REC 463 Senior Internship. (6 or 12)

fa, spr ng summer

Supervised guided experience in selected agencies. Fee. Prerequisites: REC 462 Recreation major senior standing.

REC 470 Environment Interpretation and Education. (3)

fa

Introduction to park interpretation and environmental education that includes theories principles and techniques.

REC 480 Natural Resource Tourism. (3)

spr ng

Examines the interaction of tourism with culture natural environment as well as the impact of tourism on the environment.

REC 482 Assessment and Evaluation of Recreation Services. (3)

fa and spr ng

Introduction to applied leisure research with emphasis on program evaluation, research design, data collection techniques, and data analysis. Prerequisites: REC 330-350 Recreation professional status.

REC 494 Special Topics. (1-3)

fa and spr ng

Special topics selected by department faculty.

REC 500 Research Methods. (3)

once a year

Introduction to recreation research methods, with emphasis on methodology qualitative research issues and techniques relevant to contemporary social research. Prerequisite: 500 level or higher approved statistics course.

REC 501 Program Evaluation and Information Management. (3)

not regularly offered

Develops skills in several professional areas, including evaluation needs assessment, information and data collection, data management/analysis, computer applications, and report writing.

REC 530 Recreation and Tourism Service Management. (3)

spr ng in even years

Examines and applies organizational behavior leadership human resource and development planning and risk management to profession.

REC 552 Foundation of the Recreation and Tourism Professions. (3)

once a year

Examines the philosophical and conceptual foundations of the profession, recreation and tourism history of the profession; professional and research issues.

REC 555 Social and Psychological Aspects of Recreation and Tourism Behavior. (3)

once a year

Theoretical review and empirical analysis of social cultural, and psychological foundations of leisure behavior with practical applications.

REC 558 Integrative Seminar. (3)

once a year

Advanced exploration and assessment of current trends within the leisure studies profession. Variable topics including, but not limited to: cross-cultural analysis of leisure urban recreation planning and resources; cultural dimensions of tourism development wilderness management. Prerequisite: REC 552.

REC 569 Current Issues in Tourism. (3)

once a year

General survey of tourism literature with emphasis on relevant theories concepts, and current research.

REC 570 Social Aspects of Outdoor Recreation Management. (3)

once a year

Analyzes the social aspects of natural resource recreation management and planning. Prerequisite: REC 370 or its equivalent.

REC 580 Practicum. (1-12)

not regularly offered

REC 593 Applied Project. (1-12)

not regularly offered

REC 598 Special Topics. (1-12)

not regularly offered

REC 599 Thesis. (1-12)

not regularly offered

NOTE: For the General Studies requirement course and codes such as L, SQ, C and H see "General Studies" page 78. For graduation requirements see University Graduation Requirements page 4. For an explanation of additional non-business courses offered but not listed in the catalog see Classification of Courses page 51.

School of Social Work

Leslie Leighninger
Director
 (WHALL 135) 480/965-3304
 Fax 480/965-5986
 ssw.asu.edu

PROFESSORS

ASHFORD, COUDROGLOU, DALEY, KETTNER, LeCROY,
 LEIGHNINGER, MacEACHRON, MARTINEZ BRAWLEY,
 MORONEY SEGAL

ASSOCIATE PROFESSORS

BRZYCY GERDES, GUSTAVSSON, MARSHALL
 MONTERO, NICHOLS PAZ, RILEY CURTISS
 STEINER, WALLER, YELLOWBIRD

ASSISTANT PROFESSORS

HOLLEY HOLSCHUH, HURDLE LARSON, NAPOLI,
 OKAMOTO STROMWALL

ACADEMIC PROFESSIONALS

GONZALEZ, SANTANA, JOHNSTON, KNUTSON, WOODS,
 ROUNTREE, ANTAR, YEPEZ

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 advanced direct practice and planning, administrative, and community practice (M.S.W.). The focus is on populations of the Southwest and those who are most oppressed and most in need of social services.

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, Latino and American Indian issues, poverty, human services planning, and many other areas of interest.

ORGANIZATION

The School of Social Work is organized around three program areas:

1. Bachelor of Social Work (B.S.W.);
2. Master of Social Work (M.S.W.); and
3. Doctor of Philosophy (Ph.D.) with a major in Social Work.

The M.S.W. program has two areas of concentration in the second year: (1) advanced direct practice (ADP) and (2) planning, administration, and community practice (PAC). In considering the PAC area of emphasis, students need to be aware that, because of space availability, preference is given to individuals with significant previous experience.

For more information regarding the master's 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 majors 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 pre-majors should follow the procedure outlined under "Transfer Credit," page 57. 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 56 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 311 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 56 semester hours and the required social work courses by the end of the semester in which they are applying. Students are admitted to the major at the beginning of the term following the semester during which they apply.

Students may obtain a Social Work major application packet at the School of Social Work, Academic Services, WHALL 135, or request that one be mailed to their home address by calling 480-965-6051.

Applications 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 B.S.W. program coordinator to discuss the decision and to obtain guidance in the development of future plans.



Wide pedestrian malls provide easy access to campus locations.

Jean Laaninen photo

Criteria for Admission. Social Work majors may achieve admission as a major by meeting the College of Public Programs major status admissions requirements.

Admission is also based on the following criteria:

1. A minimum of 56 semester hours with a cumulative GPA of at least 2.50 at ASU is required.
2. A minimum cumulative GPA of 2.75 in core social work courses (SWU 271, 291, 295, 301, and 310) and a grade of "C" or higher in all social work courses are required.
3. The applicant's educational and career goals must be compatible with the educational objectives of the school.
4. Before admission to the major, it is required that students have had human service experience for a minimum of 240 hours in social work-related settings. Personal life experience may be substituted.
5. References are required for each applicant. One reference should be from a person who knows the applicant in a professional capacity and one from a person who knows the applicant in an academic capacity. 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.

For more information, see "Admission," page 466.

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 Professional Standards, the student must be in good standing in the program at the time the request is made. Students should be aware that nonattendance at the university for one or more semesters requires reapplication to the university. Failure to request a leave of absence by Social Work majors results in removal from the program.

Readmission. Undergraduate students (premajor and major) who have previously attended ASU but have not been enrolled at this institution for one or more semesters are required to apply for readmission following university procedures as outlined under "Readmission to the University," page 65. 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 57. 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

NOTE: For the General Studies requirement, courses, and codes (such as L, SQ, C, and H), see "General Studies," page 78. For graduation requirements, see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 51.

is continuous. See "Guidelines for Determination of Catalog Year" page 74.

Arizona students are urged to refer to the *Credit Applicability System* for the transferability of specific courses from Arizona community colleges. Copies of the guide are available from Academic Services, W HALL 135. Students may also access the guide through the Academic Transfer Articulation Office's Website at www.asu.edu/provost/articulation.

Courses transferred from community colleges are accepted as lower division credit only. Students are urged to choose their community college courses carefully in view of the fact that there is a minimum number of hours of work taken at the university that must be upper division credit. See "Credit Requirements," page 4.

Direct transfer of courses from other accredited institutions to the School of Social Work is subject to the existence of parallel and equivalent courses in the school's curriculum. Transfer credit is not given for courses in which the lowest passing grade "D" or a failing grade "I" or "F" was received.

Credit for life experience is not given in lieu of course requirements. A minimum of 3 semester hours earned in residential 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 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 primary objective of the undergraduate curriculum is to prepare students for beginning generalist practice in social work. The program is also designed to prepare students for culturally sensitive practice and to provide preparation for graduate training in social work. During the freshman and sophomore years, students concentrate on obtaining a strong background in liberal arts and sciences and are classified as pre-majors until they are officially admitted to the major. Entrance into the Social Work major from the pre-major is not automatic. See "Admission," page 466.

Jurior 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 practitioners seek 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.

Honors B.S.W. Program

Criteria for Admission. For information about admission to the Barrett Honors College, call 480-965-2359. The Barrett Honors College reviews applications on November 1, December 1, and the 15th of every other month. Minimum GPA eligibility ranges from 3.25 to 3.40, depending on the number of semester hours.

Students must be admitted to the B.S.W. program and have a 3.50 GPA in all social work courses they may have taken before admission to the program. To retain honors status, students must maintain a 3.25 GPA in their honors social work classes. However, to graduate from the Barrett Honors College, students must have an overall ASU GPA of 3.40.

Honors College Requirements. Students must comply with the Barrett Honors College requirements and take one of the following options:

- 1 HON 171 and 172 The Human Event (not available to transfer students)
- 2 HON 300 Freedom and Authority,
- 3 HON 304 Black and White: A Contradiction
- 4 HON 394 Special Topics.

In addition, students must take SWU 493 Honors Thesis for three to six semester hours. The thesis can be a social work research or creative project preferably related to the student's field placement or area of interest. Students must have a faculty mentor chair to assist with the thesis or creative project.

Typical Program of Study

Junior Year

B.S.W. Requirement	
SWG 502 Human Behavior in the Social Environment II	3
Total	3

Senior Year

Fall Semester	
HON 300 Freedom and Authority	3
HON 304 Black and White: A Contradiction	3
HON 394 Special Topics	3
SWG 502 Field Instruction I	3
SWG 503 Social Policy and Service I	3
SWU 400 Field Instruction I	5
SWU 401 Field Instruction I - Social I	1
Total	15

Spring Semester	
SWG 501 Field Instruction Practice I	3
SWG 503 Community and Organization Change	3
SWU 414 Field Instruction II	3
SWU 405 Integrative Field Seminar	3-6
SWU 493 Honors Thesis	3-6
Total	15-18

If students have already taken HON 171 and 172, HON 304 is not taken.

Students may want to take three semester hours of thesis in each of the final pre-employment years.

Note: The preceding graduate SWG courses are taken in lieu of the following undergraduate courses: SWU 340 Human Behavior in the Social Environment II, SWU 410

Social Work Practice II SWU 411 Social Work Practice III, SWU 432 Social Policy and Services, and SWU 442 or 444

Optional. Students who have not already taken SWG 320 and 374 when they are admitted may also take the following equivalent graduate courses:

- SWG 319 Research Methods in Social Work ... 3
- SWG 533 Diversity and Oppression in a Social Work Context ... 3

Advanced Standing in M.S.W. Program for Honors B.S.W. Graduates. Students who complete the Honors B.S.W. program are eligible to apply for advanced standing status in the M.S.W. program. If accepted, they could complete the M.S.W. degree in one calendar year starting in June only. To be eligible for advanced standing status, the student must have graduated from the honors B.S.W. program within the last five years.

GRADUATE PROGRAM

The faculty in the School of Social Work offer a Master of Social Work degree and a Ph.D. degree in Social Work. For more information, 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 4.

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 course work in General Studies. See "General Studies," page 78.

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 course work chosen from among those courses that satisfy the General Studies requirement. General Studies courses are listed in the "General Studies" section, page 78, 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. All students are required to demonstrate proficiency in a language other than English: a spoken language or American Sign Language. Proficiency is defined as completing the second semester, intermediate level or higher, of a language other than English.

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 (CS).

Humanities and Fine Arts. School of Social Work students must complete PHI 101 Introduction to Philosophy, PHI 105 Introduction to Ethics, or PHI 366 Applied Ethics.

Social and Behavioral Sciences. The following courses are required:

- ECN 111 Macroeconomic Principles SB ... 3
- PGS 101 Introduction to Psychology SB ... 3
- or SOC 101 Introductory Sociology SB 3
- SOC 311 Principles of Sociology SB 3

Total ... 6

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 74) including the General Studies requirements (see "General Studies," page 78), as well as the School of Social Work degree requirements.

Course Load. A normal course load per semester is 15 to 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 and the College of Public Programs dean's office.

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

Social Work Core Requirement

- SWU 271 Introductory to Social Work SB, H ... 3
- SWU 291 Social Service Delivery Systems ... 3
- SWU 295 Foundations of Social Work Practice ... 3
- SWU 301 Human Behavior in the Social Environment I L/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 344 Diversity and Oppression in a Social Work Context C ... 3
- SWU 411 Social Work Practice II ... 3
- SWU 412 Social Work Practice II ... 3
- SWU 412 Field Instruction I ... 3
- SWU 413 Field Instruction Seminar I ... 1
- SWU 414 Field Instruction II ... 3
- SWU 415 Integrative Field Seminar ... 3
- SWU 432 Social Policy and Services ... 3

NOTE: For the General Studies requirement, courses and codes such as L, SQ, C, and H, see General Studies, page 78. For graduation requirements, see "University Graduation Requirements," page 74. For an explanation of additional omnibus courses offered but not listed in this catalog, see "Classification of Courses," page 51.

SWU 442 Introduction to Practice with Children and Families in Child Welfare	3
or SWU 444 Issues in School Social Work	3
Total	48

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. Students must have senior status to participate in the field.

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." If a grade of "D" or "E" is earned in a major core course, the student must see the faculty advisor to discuss continuance in the major. Most courses in the program are sequential, successful completion of each course in the sequence is required to enroll in the following course.

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.

ELECTIVES

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. Seniors within 12 semester hours of graduation 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. Courses 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*).

ACADEMIC STANDARDS

Good Standing. To remain in good academic standing, a student must maintain a minimum overall GPA of 2.00 or higher at the end of each semester in all courses taken at ASU.

Probationary Status. Any student who does not maintain good standing status is placed on probation. Students are placed on probation automatically when the GPA is less than the minimum 2.00 at the end of any semester.

Disqualification. Any 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.

See Academic Standards and Retention, page 469, for more details on academic standards.

Termination from the Social Work Major. A student is terminated from the major under any one of the following circumstances:

1. A B.S.W. student receives an "E" grade (failure) in field practicum.
2. 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.
3. 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).
4. A student appears to lack the degree of 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 the committee. The committee's decision may require the termination of a student from the major.

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.

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.

APPEAL PROCEDURES

Appeals involving the professional standards of the discipline are decided by the School of Social Work. Appeals involving grades for course work may be submitted to the College of Public Programs Academic and Student Affairs Committee.

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 ombudsman.

SPECIAL PROGRAMS

Tucson Component. The School of Social Work offers a B.S.W. program in Tucson in conjunction with the College of Extended Education.

For more information about the B.S.W. program, call the Tucson Component at 520 884 5507.

SOCIAL WORK (SWG)

See the *Graduate Catalog* for the SWG courses.

SOCIAL WORK (SWU)

SWU 271 Introduction to Social Work. (3)

fall and spring

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. Prerequisite: PGS 101 or SOC 101.

General Studies: SB, H

SWU 291 Social Service Delivery Systems. (3)

fall and spring

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 295 Foundations of Social Work Practice. (3)

fall and spring

Provides theoretical foundation and skill base necessary for social work interventions with individuals, small groups, and larger systems. Prerequisite: SWU 271, 291.

SWU 301 Human Behavior in the Social Environment I. (3)

fall and spring

Analyzes theories of personality and lifespan development from methodological, ecological, and systems perspectives up to adolescence. Prerequisite: PGS 101 or SOC 101. Prerequisite: SWU 271, 291, 295.

General Studies: L/SB

SWU 302 Human Biology for Social Workers. (3)

fall and spring

Overview of human anatomy and physiology, and the reciprocal relationship between physical and social environments. Lecture/discussion. Prerequisite: SWU 271, 291.

SWU 310 Social Work Practice I. (3)

fall and spring

Introduction to social work methods emphasizing the following skills: cross-cultural interviewing, assessment, referrals, and process and psychological recording. Prerequisite: SWU 295. Prerequisite: SWU 301.

SWU 320 Research Methods in Social Work. (3)

fall and spring

Application of 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)

fall and spring

Teaches social work students how to use and interpret descriptive and inferential statistics in social work practice. Lecture/seminar/work. Prerequisite: MAT 114, 117. Prerequisite: SWU 320.

General Studies: CS

SWU 340 Human Behavior in the Social Environment II. (3)

fall and spring

Lifespan development from middle childhood to maturity. Lecture/discussion. Prerequisite: SWU 301. Prerequisite: SWU 302, 310.

General Studies: SB

SWU 374 Diversity and Oppression in a Social Work Context. (3)

fall and spring

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)

fall and spring

Knowledge and skills in social work practice with individuals and families. Prerequisite: PH 101 or 105 or 306. SWU 310. Social Work major. Corequisites: SWU 412, 413.

SWU 411 Social Work Practice III. (3)

fall and spring

Knowledge and skills in social work practice with groups, communities, and organizations. Prerequisite: SWU 410, 412, 413. Social Work major. Corequisites: SWU 414, 415.

SWU 412 Field Instruction I. (5)

fall and spring

16 hours a week of supervised practice in an approved placement. Prerequisite: Social Work major. Corequisites: SWU 410, 413.

SWU 413 Field Instruction Seminar I. (1)

fall and spring

Field to be used seminar, including practice evaluation. 1.5 hours per week. Prerequisite: Social Work major. Corequisites: SWU 410, 412.

SWU 414 Field Instruction II. (3)

fall and spring

16 hours a week of supervised practice in an approved placement. Prerequisite: SWU 411. Social Work major. Corequisites: SWU 411, 415.

SWU 415 Integrative Field Seminar. (3)

fall and spring

Field focused seminar to help students integrate practice and theory. Prerequisite: Social Work major. Corequisites: SWU 411, 414.

SWU 432 Social Policy and Services. (3)

fall and spring

Contemporary social policy and economic issues. Special emphasis on poverty and equity in the Southwest. Analysis and development of social welfare policies and programs. Prerequisite: ECN 111. Corequisites: SWU 410, 412, 413.

SWU 442 Introduction to Practice with Children and Families in Child Welfare. (3)

fall and spring

Focus on the characteristics, strengths, and service needs of families and children in the Child Welfare System. Lecture/cooperative learning. Prerequisite: SWU 410, 412, 413. Social Work major.

SWU 444 Issues in School Social Work. (3)

fall and spring

Demonstrate how community family and school are interdependent using an ecological metaphor and introduces school social work. Lecture/cooperative learning. Prerequisite: SWU 410, 412, 413. Social Work major.

NOTE: For the General Studies requirement, courses and codes such as L, SQ, C, and H see General Studies page 8. For graduation requirements see "University Graduation Requirements" page 74. For an explanation of additional minimum courses offered but not listed in this catalog, see "Classification of Courses" page 51.

Graduate College

Bianca L. Bernstein, Ph.D., Dean

www.asu.edu/graduate



Law Professor Dale Furnish addresses a class. Ten Trumble photo

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PURPOSE

Through the faculty, Arizona State University's Graduate College offers programs to meet the educational needs of those who already hold baccalaureate and master's degrees. While many students prepare for careers in research, the professions, and the arts, others study for personal enrichment. Both part-time and full-time students are enrolled in 91 master's and 48 doctoral majors encompassing hundreds of concentrations and specialties. Other students explore new areas of interest or prepare for career advancements apart from formal degree programs.

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

One distinctive project that magnifies the Graduate College's dedication to graduate students is the Preparing Future Faculty program, funded by the Pew Charitable Trusts and ASU. The program is designed to educate students about faculty roles and prepare doctoral students specifically for faculty positions in colleges and universities across the nation.

This past year, about 2,000 ASU graduate students were awarded prestigious fellowships and scholarships, exceeding \$3.5 million. These awards were funded by the National Science Foundation, NASA, the Ford Foundation, Fulbright, and other public agencies and private foundations.

ASU assisted more than 2,800 outstanding graduate students through academic and tuition scholarship and other financial support programs. The total financial support amounted to \$15.5 million, exemplifying the university's commitment to enabling student success.

Funded programs, together with more than 30 research centers and institutes, provide assistantships and training for many graduate students; further, the centers coordinate conferences, colloquia, and special seminars to heighten the learning experience. The Office of the Vice Provost for Research provides seed money to enable ASU faculty and students to work at the frontiers of knowledge. Such activities continually encourage the creative embrace of change and experimentation.

ASU provides numerous choices in student life, for personal enrichment as well as cultural interaction. Many internationally known speakers present lectures here, bringing together faculty, graduate students, and the community to engage in stimulating dialogue.

Intellectual Environment. More than 10,000 students from all 50 states and more than 100 nations are enrolled in graduate study at the university. Such size and diversity contrib-

ute to a cosmopolitan setting that is ideal for intellectual discourse and stimulation. As a balance to this large grouping of students, individual graduate programs conduct small colloquia and seminars where students and faculty discuss their work in an intimate, intellectual environment supportive of student development. The result is a spirited, lively atmosphere in which students and faculty members get to know each other through collaborative research and intellectual exchange.

GRADUATE PROGRAMS

Degree Programs

Although graduate degree programs differ in many ways, they all share two important characteristics. First, in comparison to baccalaureate programs, they demand a deeper and broader understanding of a body of knowledge in a recognized discipline or profession. Second, in master's and especially in doctoral programs, graduate students prepare to make original contributions to their fields through research and other creative activities of a high order. In contrast, then, to the broad-based baccalaureate degree, graduate degrees are specialized. ASU offers several types and levels of postbaccalaureate degrees.

For admission information and procedures, access the Web site at www.asu.edu/graduate/admission or refer to the *Application for Graduate Admission* booklet.

Master's and Doctoral Work. Many students pursue a master's degree to satisfy their own quest for learning. In some disciplines, such as dance or architecture, the master's degree is normally the terminal or final degree. In other fields, students enter master's programs as the first step toward more advanced work, such as doctoral studies, which prepare students for a lifetime of intellectual inquiry and creativity or for the application of knowledge to professional practice.

Research Degrees. Students at ASU may pursue research-oriented or practice-oriented degrees. Research-oriented degree programs—the Master of Arts (M.A.), Master of Science (M.S.), and Doctor of Philosophy (Ph.D.)—prepare students for careers of research and scholarship in governmental, business, and industrial organizations, or in university or college teaching. Students in these programs develop abilities to evaluate existing knowledge critically and extend it into fresh areas of inquiry and scholarship.

Professional Degrees. The professional or practice-oriented degree programs have slightly different names and distinct academic missions. The names of the degrees are commonly tied to the academic unit offering the program, for example, Master of Business Administration (M.B.A.), Master of Music (M.M.), Master of Social Work (M.S.W.), and Doctor of Public Administration (D.P.A.). With the objective of preparing students for professional practice, such programs require rigorous preparation in the fundamental literature and scholarship of the field. Some degrees require demonstrated expertise through an internship, an exhibition (art), a performance (dance), or a recital (music). Examples of ASU fields in which academic units offer professional programs include architecture and design, business, education, engineering, health services administration, law, nursing, public administration, and social work.

Nondegree Graduate Study

Many serious students enter graduate studies without intending to obtain a new degree but rather to enhance personal knowledge. They may want to advance in their present career, acquire the background to make a career change, or make up academic deficiencies before entering a degree program. All graduate students, degree or nondegree, enjoy the benefits of cultural and intellectual activities at the university, such as colloquia, seminars, and conferences focusing on the latest scholarship in the field. By consulting with appropriate academic units, students can learn which courses are suitable to their needs.

For admission information and procedures, access the Web site at www.asu.edu/graduate/admission or refer to the *Application for Graduate Admission* booklet.

Student Services for Nondegree Students. The Graduate College maintains an advising office open year-round. See "Graduate Student Support Services," page 507, for more information.

Graduate Studies and University Environment

The Graduate College spans the university in supervising graduate studies and offering all postbaccalaureate degrees except the Juris Doctor, which is administered by the College of Law. Since more than 1,600 ASU faculty members teach graduate students in more than 115 instructional units, the Graduate College works closely with the other colleges and academic units. In most cases, graduate instruction is offered by units that also provide related undergraduate programs.

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

Currently, the Graduate College oversees nine interdisciplinary programs, several others are planned. Existing programs include the Gerontology Program (Certificate in Gerontology, jointly offered by ASU Main and ASU West), Creative Writing (M.F.A.), Curriculum and Instruction (Ph.D., jointly administered with the College of Education), Exercise Science (Ph.D.), Justice Studies (Ph.D., Science and Engineering of Materials (Ph.D.), Speech and Hearing Science (Ph.D.), Statistics (M.S.) and Transportation Systems Certificate in Transportation Systems.

Other interdisciplinary degree programs include Communication (Ph.D., administered by the College of Public Programs), History and Theory of Art (Ph.D., jointly offered with the University of Arizona; administered by the School of Art Humanities (M.A., administered by the College of Liberal Arts and Sciences) and Molecular and Cellular Biology (M.S., Ph.D.) (administered by the College of Liberal Arts and Sciences).

Each of these programs utilizes resources and faculty from several disciplines. They promote cooperative research

Interdisciplinary Graduate Degrees and Majors Overseen by the Graduate College

Major	Degree	Concentration	Administered By
Creative Writing Curriculum and Instruction	M.F.A. Ph.D.	Art education, curriculum studies, early childhood education, educational media and computers, elementary education, English education, exercise and wellness education, language and literacy, mathematics education, music education, physical education, science education, special education	Creative Writing Committee Interdisciplinary Committee on Curriculum and Instruction
Exercise Science	Ph.D.	Biomechanics, motor behavior, sport psychology, physiology of exercise	Committee on Exercise Science
Justice Studies	Ph.D.	Criminal and juvenile justice, dispute resolution, law, justice and minority populations; law, policy, and evaluation, women, law, and justice	Committee on Law and Social Sciences
Materials Science	M.S.		Committee on the Science and Engineering of Materials
Science and Engineering of Materials	Ph.D.	High resolution nanostructure analysis, solid state device materials design	Committee on the Science and Engineering of Materials
Speech and Hearing Science	Ph.D.	Developmental neurolinguistic disorders, neuroauditory processes, neurogerontologic communication disorders	Committee on Speech and Hearing Science
Statistics	M.S.		Committee on Statistics

Applications are not being accepted at this time.

and instruction among faculty who share common interests but are housed in different academic units. They allow students to pursue degrees that are intellectually coherent but that bring together diverse strengths of the university. See the "Interdisciplinary Graduate Degrees and Majors Overseen by the Graduate College" table on this page.

Creative Writing—M.F.A.

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

Curriculum and Instruction—Ph.D.

The interdisciplinary Ph.D. degree in Curriculum and Instruction is administered by the Interdisciplinary Committee on Curriculum and Instruction and overseen jointly by the Graduate College and the College of Education. Areas of concentration are available in art education, curriculum studies, early childhood education, educational media and computers, elementary education, English education, exercise and wellness education, language and literacy, mathematics education, music education, physical education, science education, and special education. For more information, see the *Graduate Catalog*.

Exercise Science—Ph.D.

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

Gerontology

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

For information on the undergraduate minor in Gerontology, see "Gerontology," page 107.

**GERONTOLOGY (GRN)
ASU Main**

GRN 430 Multidisciplinary Approaches to Gerontology. (3)*once a year*

Examines literature that each discipline brings to the study of gerontology. Covers both theory and practice. Lecture/discussion.

*General Studies SB***GRN 431 Caregiving. (3)***once a year*

Examines theory and practice of caregiving for the senior population. Lecture/discussion.

GRN 440 Aging and Wellness. (3)*fall and spring*

One-on-one service experience learning with seniors from the community. May be repeated for credit. Lecture/lab.

GRN 450 Biology of Aging. (3)*spring*

Examines normal biological aging and changes in the functional capabilities in the elderly. Lecture/lab.

GRN 460 Alzheimer's and Related Dementias. (3)*fall and spring*

Familiarizes student with Alzheimer's disease and related dementias from a caregiver's perspective. Lecture/lab.

GRN 484 Undergraduate Internship. (3-6)*fall, spring, summer***GRN 494 ST: Undergraduate Special Topics. (3)***fall and spring***GRN 498 PS: Undergraduate Pro-Seminar. (3)***spring***GRN 499 Undergraduate Individualized Instruction. (3)***fall, spring, summer***GRN 530 Multidisciplinary Approaches to Gerontology. (3)***once a year*

Examines literature that each discipline brings to the study of gerontology. Covers both theory and practice. Lecture/discussion.

GRN 531 Caregiving. (3)*once a year*

Examines theory and practice of caregiving for the senior population. Lecture/discussion.

GRN 540 Aging and Wellness. (3)*fall and spring*

One-on-one service experience learning with seniors from the community. Lecture/lab. Cross-listed as SWG 517. Credits awarded for only GRN 540 or SWG 517.

GRN 550 Biology of Aging. (3)*spring*

Examines normal biological aging and changes in the functional capabilities in the elderly. Lecture/lab.

GRN 560 Alzheimer's and Related Dementias. (3)*fall and spring*

Familiarizes students with Alzheimer's disease and related dementias from a caregiver's perspective. Lecture/lab.

GRN 584 Graduate Internship. (3-6)*fall, spring, summer***GRN 590 Graduate Reading and Conference. (3)***fall, spring, summer***GRN 591 Graduate Seminar. (1-6)***fall and spring***Justice Studies—Ph.D.**

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

Science and Engineering of Materials—Ph.D.

The interdisciplinary Ph.D. degree in Science and Engineering of Materials is administered by the Committee on Science and Engineering of Materials. Areas of concentration are available in solid state device materials design and high resolution nanostructure analysis. Emphasis is placed on the applications of chemical thermodynamics, the mechanics of solids, quantum mechanics and transport theory for investigation of the relationships between microstructure and properties of solids, and the dependence of microstructures on processing. For more information, see the *Graduate Catalog*.

SCIENCE AND ENGINEERING OF MATERIALS (SEM)

See the *Graduate Catalog* for the SEM courses.

Speech and Hearing Science—Ph.D.

The interdisciplinary Doctor of Philosophy degree program with a major in Speech and Hearing Science is administered by the Committee on Speech and Hearing Science. Areas of concentration are available in developmental neurolinguistic disorders, neuroauditory processes, and neurogerontologic communication disorders. The purpose of the program is to prepare scholars for careers of basic and applied research in academia or in health care delivery environments. The unifying theme of the program is the influence aging and changes in the neurologic condition have upon human communication and communication disorders. For more information, see the *Graduate Catalog*.

Statistics—M.S.

The interdisciplinary M.S. degree in Statistics is administered by the Committee on Statistics. The program involves faculty and resources from the School of Accountancy and Information Management and the Department of Mathematics. Areas of emphasis include applied statistics, mathematical statistics, statistical computing, statistical modeling, and statistical sampling and survey research. For more information, see the *Graduate Catalog*.

Certificate Programs

A number of certificate programs are offered by various academic units or programs on campus—see the "ASU Post baccalaureate Certificates" table, page 106.

Transportation Systems

The interdisciplinary Certificate in Transportation Systems program is administered by the Committee on Transportation Systems. The objective of this program is to enable existing ASU graduate students and transportation professionals with advanced degrees to examine transportation related issues from a variety of perspectives and in the context of different travel modes. For more information, see the *Graduate Catalog*.

TRANSPORTATION SYSTEMS CERTIFICATE (TRC)

See the *Graduate Catalog* for the TRC courses.

Research Programs

ASU continues to advance as a major research institution. The Office of the Vice Provost for Research provides leadership in obtaining external funding and in coordinating and administering sponsored projects. Many graduate students receive financial support and gain first-hand experience as

they participate with faculty members in carrying out these research projects.

Much of this work is associated with campus research centers that help to develop proposals, coordinate activities, and bring together in colloquia and conferences students and faculty with common intellectual interests. Such centers include the Center for Solid-State Science, the Manufacturing Institute, the Institute of Human Origins, the Hispanic Research Center, and the Preventive Intervention Research Center. For further information on centers and institutes, see "Research Centers, Institutes, and Laboratories," page 27.

Research Facilities

The university lends support to research in diverse ways, including extensive facilities for research and instructional programs. State-of-the-art facilities include an architecture building, a fine arts complex, the Goldwater Center for Science and Engineering, an addition to the Life Sciences Center, and the Computing Commons. The Engineering Research Center, built as part of the Engineering Excellence Program, houses advanced facilities such as the Molecular Beam Epitaxy laboratory and a clean room for microelectronic device fabrication. Other facilities supporting research on campus are the Institute for Studies in the Arts, in the Herberger College of Fine Arts; the Facility for High Resolution Electron Microscopy, in the College of Liberal

Arts and Sciences; and the Southwest Archaeological Collection, in the Department of Anthropology.

Graduate Student Support Services

Providing academic and professional development support to graduate students is an important part of the Graduate College mission. Services include advising, individual mentoring for disadvantaged students, financial assistance, orientation sessions, workshops, career seminars, and research conferences.

Graduate College Student Programs/Services maintains a variety of programs specifically for graduate and nondegree students.

Graduate College Financial Assistance Office. The Graduate College Financial Assistance Office meets the needs of graduate and professional students. Students may receive financial services at Wilson Hall, without having to visit other offices on campus. Students may obtain general information about graduate financial assistance at ASU, may turn in documents, or receive status information on their student loans. Students can also apply for emergency short-term loans or pick up forms to report special circumstances. Staff members are available to help students with financial assistance concerns. Refer to "Financial Aid," page 48, for a full description of graduate financial support and services or visit the Web site at www.asu.edu/graduate.



Old Main after the completed restoration of 2000.

Tim Trumble photo

Advising and Career/Professional Development. Many graduate students have questions and concerns about which degree to pursue; how to combine their student roles with parenting, partnering, and worker roles, and what opportunities and possibilities their degrees may provide upon graduation. The Graduate College provides the following resources:

Advising. The Graduate College's Academic Advising Office supplies general information about policies, procedures, requirements, and support services. Appointments are available throughout the year.

Students with regular admission status should contact their academic unit for degree program advancement and program of study planning.

Career/Professional Development Seminars. The Graduate College, in conjunction with Counseling and Consultation, offers seminars to groups of graduate students interested in exploring career-related subject matters. Examples of seminar topics are dual career issues, the impact of values on career decision making, and transferable skills.

Career Planning Services for Graduate Students. In conjunction with Career Services and Counseling and Consultation, the Graduate College provides a brochure listing numerous career planning services for graduate student needs. This publication is also available at www.asu.edu/career.

Diversity Programs. The Graduate College's Diversity Programs are designed to increase the number of graduate students from groups underrepresented in certain fields of study. Students interested in these programs must first go to their respective departments for nomination.

Diversity Assistantship Program (DAP). The purpose of this merit-based program is to support research and creative activities related to a student's field of study. Nominations are made by departments and recipients are supervised by a faculty member.

Academic Support Program (ASP). The purpose of ASP is two-fold: financial assistance and peer mentoring. ASP is available primarily to first-year students, however, departments are asked to provide a student's subsequent funding. The program is based on financial need and the nominations of students by departments. Financial support is provided in the form of federal work study to support field-related research that is supervised by a faculty member. For additional academic support, a student meets weekly with an assigned peer mentor who is two or more years advanced in the academic program.

The Social and Academic Mentor Program. The Graduate College Social and Academic Mentor (SAM) program is designed to recruit top graduate students from domestic, international, and underrepresented populations. Academic units submit applications to the Graduate College to nominate a first-year student (mentee) and peer mentor match. The mentor, two or more years advanced in the program, promotes the mentee's social and academic integration into graduate school by using a structured format. The mentor meets weekly with the mentee and schedules regular monthly meetings with the faculty advisor to discuss the mentee's concerns, progress, accomplishments, or department-related matters.

Orientations. Each semester, the Graduate College hosts orientations for new graduate students and teaching assistants (TAs).

In addition to the General (new student) Orientation, teaching assistants have the opportunity to enrich and enhance their teaching through seminars offered each semester. At least two seminars are mandatory for first-time TAs. Among other topics, TAs can attend sessions on teaching lab sciences, human diversity, critical thinking, classroom management, ethical issues, and multimedia applications in the classroom.

Workshops for Undergraduate Students Considering Graduate Education. The Graduate College holds workshops to address the issues that students contemplating graduate study should consider. The purpose of graduate study, the choices among research and professional degrees, the sector of schools to apply to, and the types and sources of financial support are among the topics discussed.

Student Organizations. The Graduate Student Council is part of the Associated Students of Arizona State University (ASASU), the student government for the university. The Graduate Research Support Office represents graduate student interests within ASASU and the Office of Student Life. It assists the Graduate College in planning orientations and other student-related activities and funds with the Graduate College small research grants to support graduate students' thesis and dissertation projects. In addition to the Council, many other special interest organizations are open to graduate students.

Format Office. The thesis/dissertation, or equivalent, is the culmination of an important stage of graduate studies. By researching and writing this final work, graduate students are able to demonstrate acquired skills essential to a discipline. The Graduate College publishes a *Format Manual* as a guide in preparing the master's or doctoral document. Both the *Format Manual* and forms pertaining to procedures for completing all graduation requirements are available in the Graduate College lobby in Wilson Hall or on the Web at www.asu.edu/graduate/formatmanual.

Publications Program. The Graduate College publishes a number of brochures, fliers, and other items pertaining to academic program offerings, procedures, student financial assistance, and related topics and events in graduate education. For more information, please call the Publications Unit at 480-965-3521.

Graduate Council

The Graduate Council establishes general policies for graduate programs and serves as an advisory board to the dean. As part of its duties, the council reviews proposals for new degree programs and concentrations, regularly conducts reviews of established academic programs, and sets policies and general standards for graduate admissions. Sixteen faculty and one student serve on the council, representing a wide variety of degree programs, with at least one member representing each college in the university. An Academic Senate representative is also elected to serve. Council members are appointed by the president of the university.

Offices of the Graduate College

The general offices of the college, including those of the dean, admissions, advising, financial assistance and operations are located on the first floor of Wilson Hall in the center of campus. Graduate College offices are open from 8 A.M. to 6 P.M., Monday through Thursday, and 9 A.M. to 5 P.M., on Friday. For more information, call 480 965 2211, send e-mail to gradadmission@asu.edu about admissions or asugrad@asu.edu about other topics, or access the Web site at www.asu.edu/graduate.

ADMISSION TO THE GRADUATE COLLEGE

Eligibility

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

Graduate College Requirements

Generally, an applicant must have a GPA of 3.00 (scale 4.00 = A), or the equivalent, in the last two years of work leading to the bachelor's degree. A student who enters a graduate degree program is expected to have undergraduate educational experiences, including general education studies, that are similar to those required for the baccalaureate degree at ASU.

Requirements of the Academic Unit

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

Submission of an Application

For admission information and procedures, access the Web site at www.asu.edu/graduate/admission, or refer to the *Application for Graduate Admission* booklet. Students may apply via the Web, by mail, or by fax.

Application Fee

Each applicant for entry to ASU graduate programs must be accompanied by a non-refundable application fee. The fee is \$45 to apply for admission to a degree program and \$15 to apply for non-degree studies. For admission information and procedures, access the Web site at www.asu.edu/graduate/admission, or refer to the *Application for Graduate Admission* booklet.

International Applicants

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

International applicants must meet the requirements of the Graduate College as well as those of the degree programs to which they apply. Applicants from outside the

United States are also required to submit additional materials and should follow the procedures described in the *Application for Graduate Admission* booklet or on the Web at www.asu.edu/graduate/admission. International applicants should read this information carefully to become familiar with the requirements for admission, consult the instructions to follow regarding the submission of materials. The *Graduate Catalog* provides essential information about ASU and its graduate programs, but applicants can also consult the ASU *Directory*, *Peters & G. Guide to the University Directory*, and the *Directory of Graduate Programs* published by the Education Testing Service.

TOEFL Requirement. Although the addition of materials required of international students are described for English language examinations, applicants whose native language is not English must submit a score from the Test of English as a Foreign Language (TOEFL). The TOEFL can be waived if the undergraduate degree is earned from an English-speaking institution. For a complete list of TOEFL requirements, see page 7 of the *Graduate Admission* booklet, or access the Web site at www.asu.edu/graduate/admission.

All international applicants who do not speak English as a primary language and who wish to apply for teaching assistantships must pass an examination that certifies their skill in speaking English—either the Test of Spoken English (TSE) which may be taken in the student's home country, or the Spoken English Proficiency First Assessment Kit (SPEAK) test, which is administered at ASU. Some degree programs also require TSE or SPEAK scores of applicants whose native language is not English. For specific information about TSE requirements, contact the head of the academic unit.

As required by the U.S. Immigration and Naturalization Service, international applicants must also verify that they have the financial resources to cover the expenses during graduate study at ASU. The Financial Guarantee form is available in the *Application for Graduate Admission* booklet. It can also be accessed through the Graduate College Web site at www.asu.edu/graduate/admission. International applicants must ensure that the guarantor form and a verification form from a bank responsible organization is completed and submitted to Graduate Admissions. The I-20 or the IAP66 documents needed to obtain a student visa are issued only after the completed, properly verified Financial Guarantee form has arrived. International students may enroll at ASU only if they have been admitted to a degree program, a certificate program, or the postbaccalaureate teaching education program. They must meet appropriate immigration standards and requirements.

Applications are processed when they are received. However, international applicants should submit materials in December or January in order to begin study the following fall semester and in August or September in order to begin study the following spring semester. An application fee of \$45 (in U.S. funds) must accompany the formal application. Applications received without fee are not processed.

An F-1 or J-1 visa student must have insurance coverage guaranteed by the university and accepted before being permitted to register. This insurance must be maintained throughout the student's enrollment in the university and may be obtained at the time of registration.

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

Additional Information

The Graduate College does not have deadlines. Applications are processed as they are received. However, many academic units have specific and early deadlines. Many units review applications once a year, usually in January or February for fall admission. Applicants are urged to contact the academic units regarding deadlines.

Academic units, which must indicate their willingness to admit applicants, frequently set higher standards than those established by the Graduate College. Many qualified applicants are denied because of limits on the number of students admitted each year.

Notice of Admission Decisions

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

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

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

Admission Classifications

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

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

Provisional Admission. A student who does not meet minimum academic standards but has counterbalancing evidence to suggest the potential for success may be admitted on a provisional basis. Provisional admission provides an academic unit with more evidence on which to base its decision. Normally the academic unit reviews the student's status following completion of 12 semester hours of approved graduate study. At that time the academic unit recommends to the Graduate College a change in status (rejection, re-admission or withdrawal from the program). When students have completed their provisional requirements, they should check with their advisors to make sure that the change of status has been recommended. A provisional student may also be assigned deficiencies.

Nondegree Admission. A student not interested in earning a degree or not ready to apply to a particular degree program may enroll as a nondegree student. The application process streamlined and does not require submission of transcripts

or test scores. For nondegree admission information and procedures, access the Web site at www.asu.edu/graduate admission or refer to the *Application for Graduate Admission* booklet. Students may apply electronically. A maximum of nine hours taken at ASU while in this category may be applied toward a master's degree if appropriate for the student's program of study.

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

Recognition of a Degree

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

Definition of a Unit of Credit

The Arizona Board of Regents has defined May 26, 1979, a unit of credit for the institutions under its jurisdiction. A minimum of 45 hours of work by each student is required for each unit of credit. An hour of work is the equivalent of 50 minutes of class time (often called a "contact hour" or 60 minutes of independent study work. For lecture/discussion courses, this requirement equates to at least 15 contact hours and a minimum of 30 hours of work outside of the classroom for each unit of credit. Even though the values of 15 and 30 may vary for different modes of instruction, the minimum total of 45 hours of work for each unit of credit is a constant. Since the unit of credit as defined by the Arizona Board of Regents is the cornerstone of academic degree programs at ASU, degrees granted by other institutions that are recognized by ASU should be based on a similar unit of credit.

GRADUATE COLLEGE PROCEDURES

Change in Graduate Degree Program

A change from one graduate degree program to another requires a new application to the Graduate College. The usual admission procedures are followed. For details on matters relating to the application fee, see "Application Fee," page 264.

Readmission to the Graduate College

Any graduate student who has not been in attendance at the university for one or more semesters must submit an application for readmission to the Graduate College. The application should be submitted at least one month before the beginning of the semester in which the student plans to reenter. For details on readmission and other matters relating to the application fee, refer to the *Application for Graduate Admission* booklet, or access the Web site at www.asu.edu/graduate/admission.

Determination of Catalog Requirements

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

A student graduates under the curriculum, course requirements and regulations for graduation in effect at the time of admission to a graduate degree program at ASU. A student may also choose to graduate under any subsequent catalog issued. *In determining graduation requirements, a student may use only one catalog.*

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

Registration

Graduate students, like all university students, register during the intervals indicated in the *Schedule of Classes* issued by the Office of the Registrar. Details regarding registration and course drop/add procedures are also provided in the *Schedule of Classes*. Day and evening graduate classes, offered on or off campus, during the two regular semesters and the summer sessions are considered part of the regular program.

InTouch, the ASU touch tone telephone system for registration and fee payment, and the online registration system, accessed at any registrar site, ease the enrollment process.

Audit Enrollment

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

Withdrawal Policies and Procedures

Students who find it necessary to withdraw from the university should obtain and complete an official withdrawal form from any registrar site. Until officially withdrawn, the student is registered in all courses and, at the end of the semester, receives grades appropriate for the performance in each course. A student who officially withdraws from the university during the first four weeks of a semester receives the mark of "W" in all courses registered. A student who officially withdraws from the university later than the fourth week receives a mark of "W" or "E," depending upon the quality of work at the time of official withdrawal. No student is permitted to withdraw during or after the last two weeks of the semester (the last week of classes and final examination week).

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

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

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

Unrestricted Withdrawal. During the first four weeks of a semester or the first six days of a summer session, a student may withdraw from any course with a mark of "W." See the *Schedule of Classes* or the *Summer Sessions Bulletin* for the dates of the unrestricted withdrawal period.

Restricted Withdrawal. From the fifth week to the end of the 10th week of a semester and from the seventh day to the end of the third week of a summer session, students may withdraw with a mark of "W" from courses only in which the instructor certifies that they are passing at the time of the withdrawal. See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the restricted withdrawal period.

Medical Withdrawal. Normally, a medical withdrawal request is made in cases where serious illness or injury prevents a student from completing course work or when other arrangements with the instructor are not possible. Consideration is usually given for complete withdrawal. An application for less than a complete withdrawal must be well documented to justify the selective nature of the medical withdrawal request. This policy applies both to cases involving physical health problems and those involving mental or emotional difficulties.

To receive permission for a medical withdrawal from courses, a student must present a Request for Documented Medical Withdrawal form and proper documentation (usually a letter from a physician) of the medical condition to the medical withdrawal designee of the college of the student's major. For complete procedural information, contact the appropriate medical withdrawal designee.

Course Load

The course load is determined by the supervisory committee but is not to exceed 15 semester hours of credit during each of the two semesters. Refer to the latest *Summer Sessions Bulletin* for course load limits for five week and eight week sessions. An audited course is counted in the student's maximum load.

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

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

Doctoral students fulfilling residence requirements for the Doctor of Philosophy and Doctor of Musical Arts degrees must be enrolled full time (nine semester hours minimum or six semester hours for research assistants or teaching assistants) during the specified period. See "Residency Classification Procedures and Policies," page 46, and

Enrollment Verification Guidelines for Graduate Students

	Full Time	Half Time	Less Than Half Time
Regular semester			
Graduate	9 or more hours	5-8 hours	4 or fewer hours
Graduate assistant*	6 or more hours		
Five-week summer session			
Graduate	3 or more hours	2 hours	1 hour
Graduate assistant*	2 or more hours	1 hour	
Eight-week summer session			
Graduate	5 or more hours	3-4 hours	2 or fewer hours

* For enrollment verification purposes, "graduate assistant" is a generic term that includes graduate assistants, teaching assistants, research assistants, graduate associates, teaching associates, and research associates.

specific degree requirements for fulfilling residence requirements for other doctoral degree programs.

Summer Course Loads. Refer to the latest *Summer Sessions Bulletin* for course load limits for five-week and eight-week sessions.

Enrollment Verification Guidelines. The registrar is responsible for verifying enrollment according to the general guidelines. See the "Enrollment Verification Guidelines for Graduate Students" table, on this page.

GRADUATE COLLEGE DEGREE REQUIREMENTS

Graduate Advising

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

Grading

The "Grades" table, on this page, defines grades and gives their values.

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

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

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

If the work specified on the form is not completed within one calendar year, the "I" grade (500-, 600-, and 700-level courses) becomes part of the student's permanent transcript. The student is not allowed to complete the course work as specified on the "Incomplete" form. The student may, however, repeat the course after the "I" has become permanent,

by reregistering, paying fees, and fulfilling all course requirements. The grade for the repeated course appears on the transcript but does not replace the permanent "I."

Repeating ASU Courses. Graduate students (degree or nondegree) may retake any courses at any level at ASU, but all grades remain on the student transcript as well as in GPA calculations.

Grades

Grade	Definition	Value
A	Excellent	4.00
B	Good	3.00
C	Passing	2.00
D	No graduate credit	1.00
E	Failure	0.00
I	Incomplete	
W	Withdrawal	
X	Audit	
Y	Satisfactory	
Z	Course in progress	

This grade is given whenever a student officially withdraws.

This grade is usually given pending completion of courses.

University Policy for Student Appeal Procedures on Grades

Informal. The following steps, beginning with step A, must be followed by any student seeking to appeal a grade. Student grade appeals must be processed in the regular semester immediately following the issuance of the grade in dispute (by commencement for fall or spring), regardless of whether the student is enrolled at the university. It is university policy that students filing grievances and those who are witnesses will be protected from retaliation. Students who believe they are victims of retaliation should immediately contact the dean of the college in which the course is offered.

A. The aggrieved student must first undergo the informal procedure of conferring with the instructor, stating the evidence (if any) and reasons for questioning that the grade received was not given in good faith. The instructor is obliged to review the matter, explain the grading procedure utilized, and show how the grade in question

was determined. If the instructor is a graduate assistant and this interview does not resolve the difficulty, the student may then go to the faculty member in charge of the course (regular faculty member or director of the course sequence) with the problem.

- B. If the grading dispute is not resolved in step A, the student may appeal to the department chair or other appropriate chair of the area within the department (if any). The department chair may confer with the instructor to handle the problem. Step B applies only in departmentalized colleges.
- C. If these discussions are not adequate to settle the matter to the complainant's satisfaction, the student may then confer with the dean of the college concerned (or the dean designate, who will review the case). If unresolved, the dean or designate may refer the case to the college academic grievance hearing committee to review the case formally. In most instances, however, the grievance procedure does not go beyond this level.

Formal. The following procedure takes place after steps A, B, and C (or A and C) have been completed.

- D. Each college has on file in the office of the dean and in each department of the college the procedures and composition of the undergraduate or graduate academic grievance hearing committee for student grievances. Each college committee shall operate under grievance procedures as stated, which satisfy due process requirements. The committee shall always meet with the student and the instructor in an attempt to resolve the differences. At the conclusion of the hearing, the committee shall send its recommendations to the dean.
- E. Final action in each case is taken by the dean after full consideration of the committee's recommendation. Grade changes, if any are recommended, may be made by the dean. The dean shall inform the student, instructor, department chair (if any), the registrar, and the grievance committee of any action taken.

Scholarship

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

Graduate students degree or nondegree may retake any courses at any level at ASU, but all grades remain on the student transcript as well as in GPA calculations.

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

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

Graduate Credit Courses

Courses at the 500, 600, and 700 levels are graduate credit courses. Courses at the 400 level apply to graduate degree requirements when appearing on an approved pro-

gram of study. However, 400 level courses are not graduate courses by definition and cannot be certified as such for purposes of employment or transferring to other institutions.

Reserving of Course Credit by Undergraduates. Seniors at ASU within 12 semester hours of graduation may enroll in a 400 level or graduate course and reserve the credit for possible use in a future graduate program. The course can not be used to meet a baccalaureate graduation requirement, however. Before registration in the class, the student must submit a Graduate College Petition form requesting credit reservation; the form must be signed by the student's advisor, the head of the academic unit offering the class, and the dean of the Graduate College.

Permission to reserve a course does not guarantee admission to a graduate degree program or that the course may be used toward graduate degree requirements. A maximum of nine hours of credit may be reserved, and only courses with an "A" or "B" grade are applicable. Reserved credit earned before admission to a graduate degree program is classified as nondegree credit. The maximum course load for a student enrolled in a reserved course is 10 semester hours during a regular semester and six hours during a summer session.

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

Transfer credit taken before admission to a graduate degree program at ASU Main or East is nondegree credit. Nondegree credit taken at ASU Main or East combined with nondegree credit taken at another institution may not exceed nine hours on the master's program of study. The nine hour limit does not apply to doctoral programs.

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

Certain types of graduate credits cannot be transferred to ASU, including the following:

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

Acceptable academic credits earned at other institutions that are based on a different unit of credit than the ones pre-

scribed by the Arizona Board of Regents are subject to conversion before being transferred to ASU.

Transfer credits must be acceptable toward graduate degrees at the institution where the courses were completed. Only resident graduate courses (at the institution where the courses were completed with an "A" or "B" grade) may be transferred. A course with the grade of pass, credit, or satisfactory may not be transferred.

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

Graduate Supervisory Committees

When the program of study is filed, upon the recommendation of the head of the academic unit, the dean of the Graduate College appoints a graduate student's supervisory committee, consisting of a chair and other resident faculty members. The number of members serving on this committee depends on the degree program.

Academic professionals (e.g., research scientists, research engineers), nontenure track faculty (e.g., adjunct professors, research professors) and individuals granted affiliated faculty status through established university procedures may serve as cochairs, members, or extra members of thesis and dissertation committees upon approval by the Graduate College. Individuals who are recommended by an academic unit as eligible to serve as a cochair must meet the criteria established by the academic unit and be approved by the Graduate College.

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

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

Foreign Language Requirements

A graduate degree program may require proficiency in a foreign language. If a foreign language is required, students must demonstrate at least a reading knowledge in the area of study required by the supervisory committee and consistent with the requirements for the graduate degree program. Normally, the language is selected from French, German, Russian, or Spanish, although other languages may be recommended when there is adequate justification.

Students who are required to demonstrate proficiency in a foreign language must pass a foreign language examination specific to their particular graduate program. The examinations are administered three times each year by the Department of Languages and Literatures, which certifies language

competency. Students planning to take the examination must register in the Graduate College at least one month in advance of the examination date. The chair of the student's supervisory committee is responsible for providing the Department of Languages and Literatures with materials from which the examination is then prepared. The chair should submit or recommend relevant books or journals of approximately 200 pages in length in the desired foreign language.

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

Theses and Dissertations

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

For format, the Graduate College must review the final copy of the master's thesis, doctoral dissertation, and other final documents that are required to be placed in the library. Copies of the *Format Manual* are available in the Graduate College and at www.asu.edu/graduate/format.html on the Web. The student is required to submit a complete copy of the thesis or dissertation for format review (at least 10 work-in-days—two weeks if there are no holidays during the time period) before the oral defense. Doctoral students must submit a completed Survey of Earned Doctorates Awarded in the United States, conducted by the National Research Council.

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

The student must submit two final copies of a thesis or dissertation to the ASU Bookstore for binding. The student is responsible for the binding fees. Bound copies are placed in the Hayden Library and Archives. Doctoral students must submit one copy of the title page, approval page, and abstract (which must not exceed 350 words); the original signature of the doctoral student must appear on the University Microfilms International (UMI) Dissertation Agreement Form. The student is responsible for the UMI microfilming fee, which covers the expense of having the document sent to UMI where it is microfilmed and catalogued. Information on the dissertation will appear in *Dissertation Abstracts International*.

Application for Graduation

Students should apply for graduation no later than the date specified in the "Graduate College Calendar," found in the *Graduate Catalog*. All fees are payable at that time. Students applying for graduation after the deadline listed in the

calendar are required to pay a late fee. At the end of the semester in which they apply for graduation, students are officially notified of any requirements for their degree that they have not yet completed.

Students are requested to complete a questionnaire that serves as a graduate student exit survey.

Students who do not complete all degree requirements by their anticipated graduation date are required to pay a retiling fee.

Summer Sessions

Work taken during the summer sessions carries the same scholastic recognition as that taken during the regular semester. A complete schedule of offerings is available in the *Summer Sessions Bulletin*, which may be obtained from the Office of Summer Sessions.

Dates and Deadlines

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

Student Responsibility

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

ACADEMIC INTEGRITY

The highest standards of academic integrity are expected of all students. The failure of any student to meet these standards may result in suspension or expulsion from the univer-

sity and/or other sanctions as specified in the academic integrity policies of the individual colleges.

Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities.

The university academic integrity policy is available at the Office of the Senior Vice President and Provost, or as part of the *Student Affairs Policies and Procedures Manual* (STA 104 01), at www.asu.edu/aad/manuals/sta104_01.html on the Web.

MISCONDUCT IN SCHOLARLY RESEARCH AND CREATIVE ACTIVITIES

Students are expected to maintain the highest standards of integrity and truthfulness in scholarly research and creative activities. Misconduct in scholarly research and creative activities includes, but is not limited to, fabrication, falsification or misrepresentation of data, and plagiarism. Misconduct by any student may result in suspension or expulsion from the university and other sanctions as specified by the individual colleges. Policies on misconduct are available in the Office of the Vice Provost for Research and on the Web at www.asu.edu/aad/manuals/rsp/rsp111.html.

Graduate College Policies and Procedures

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

Policies and Procedures of the Graduate Council Appeals Board

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

For more detailed information on the Graduate Council appeals policies and procedures, see the current *Graduate Catalog*.

ASU Graduate Degrees

Graduate degrees, majors, and concentrations offered by ASU Main, ASU East, and ASU West and through ASU Extended Campus are shown in the "ASU Graduate Degrees" table, on this page, organized by the name of the major. The table includes only officially approved concentrations; other informal areas of study may be available.

ASU offers these graduate degrees, abbreviated in the table below and elsewhere in the catalog:

Master of Accountancy and Information Systems (M.A.I.S.)
 Master of Architecture (M.Arch.)
 Master of Arts (M.A.)
 Master of Business Administration (M.B.A.)
 Master of Computer Science (M.C.S.)
 Master of Counseling (M.C.)
 Master of Education (M.Ed.)
 Master of Engineering (M.E.)
 Master of Environmental Planning (M.E.P.)
 Master of Fine Arts (M.F.A.)
 Master of Health Services Administration (M.H.S.A.)

Master of Mass Communication (M.M.C.)
 Master of Music (M.M.)
 Master of Natural Science (M.N.S.)
 Master of Physical Education (M.P.E.)
 Master of Public Administration (M.P.A.)
 Master of Public Health (M.P.H.)
 Master of Science (M.S.)
 Master of Science in Design (M.S.D.)
 Master of Science in Engineering (M.S.E.)
 Master of Science in Technology (M.S.Tech.)
 Master of Social Work (M.S.W.)
 Master of Taxation (M.Tax.)
 Master of Teaching English as a Second Language (M.TESL)
 Doctor of Education (Ed.D.)
 Doctor of Musical Arts (D.M.A.)
 Doctor of Philosophy (Ph.D.)
 Doctor of Public Administration (D.P.A.)
 Juris Doctor (J.D.)

ASU Graduate Degrees

Major	Degree	Concentration	Campus
Accountancy and Information Systems	M.A.I.S.	—	Main
Aerospace Engineering	M.S., M.S.E., Ph.D.	—	Main
Agribusiness	M.S.	Agribusiness management and marketing, food quality assurance	East
Anthropology	M.A.	Archaeology, bioarchaeology, linguistics, medical anthropology, museum studies, physical anthropology, social-cultural anthropology	Main
	Ph.D.	Archaeology, physical anthropology, social-cultural anthropology	Main
Architecture	M.Arch.	—	Main
Art	M.A.	Art education, art history	Main
	M.F.A.	Ceramics, drawing, fibers, intermedia, metals, painting, photographic studies, photography, printmaking, sculpture, wood	Main
Asian Languages and Civilizations—Chinese/Japanese	M.A.	—	Main
Bioengineering	M.S., Ph.D.	—	Main
Biology ¹	M.S., Ph.D.	Ecology	Main
Building Design	M.S.	Computer-aided design, energy performance and climate-responsive architecture, facilities development and management	Main

¹ This major has formalized concentration(s); other areas of study are available.

² Applications are not being accepted at this time.

³ This collaborative program is offered by the three state universities.

⁴ This major is jointly offered with the University of Arizona.

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

ASU Graduate Degrees (continued)

Major	Degree	Concentration	Campus
Business Administration	M.B.A.		Main West Extended
	Ph.D.	Accountancy, finance, health services research, ² computer information systems, management, marketing, supply chain management	Main
Chemical Engineering	M.S., M.S.E., Ph.D.	—	Main
Chemistry	M.S., Ph.D.	Analytical chemistry, biochemistry, geochemistry, inorganic chemistry, organic chemistry, physical chemistry, solid-state chemistry	Main
Civil Engineering	M.S., M.S.E., Ph.D.	—	Main
Communication	M.A.		Main
	Ph.D.	Communicative development, intercultural communication, organizational communication	Main
Communication Disorders	M.S.	—	Main
Communication Studies	M.A.		West
Composition	M.M.	—	Main
Computer Science	M.C.S., M.S., Ph.D.	—	Main
Construction	M.S.	Construction science, facilities, management	Main
Counseling	M.C.		Main
Counseling Psychology	Ph.D.	—	Main
Counselor Education	M.Ed.		Main
Creative Writing	M.F.A.	—	Main
Criminal Justice	M.A.		West
Curriculum and Instruction	M.A.	Bilingual education, communication arts, early childhood education, elementary education, English as a second language, Indian education, mathematics education, reading education, science education, secondary education, social studies education	Main
	M.Ed.	Bilingual education, communication arts, early childhood education, elementary education, English as a second language, Indian education, mathematics education, professional studies, reading education, science education, secondary education, social studies education	Main
		Secondary education	Extended
	Ed.D.	Bilingual education, communication arts, curriculum studies, early childhood education, elementary education, English as a second language, Indian education, language and literacy, mathematics education, science education, secondary education, social studies education	Main

¹ This major has formalized concentration(s); other areas of study are available.

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ASU Graduate Degrees (continued)

Major	Degree	Concentration	Campus
Curriculum and Instruction (continued)	Ph.D.	Art education, curriculum studies, early childhood education, educational media and computers; ² elementary education, English education, exercise and wellness education, language and literacy, mathematics education, music education, physical education, science education, special education	Main
Dance	M.F.A.	—	Main
Design	M.S.D.	Graphic design, industrial design, interior design	Main
Economics	M.S., Ph.D.	—	Main
Educational Administration and Supervision	M.Ed. Ed.D.	—	Main West Main Extended
Educational Leadership and Policy Studies	Ph.D.	—	Main
Educational Psychology	M.A., M.Ed. Ph.D.	— Learning; lifespan developmental psychology; measurement, statistics, and methodological studies; school psychology	Main
Educational Technology	M.Ed. Ph.D.	—	Main Main
Electrical Engineering	M.S., Ph.D. M.S.E.	—	Main Main Extended
Elementary Education	M.Ed.	Bilingual education, educational media and computers, ESL education, reading	West
Engineering ³	M.E.	—	Main Extended
Engineering Science	M.S., M.S.E., Ph.D.	—	Main
English	M.A., Ph.D.	Comparative literature, English linguistics, literature and language, rhetoric and composition Literature, rhetoric/composition and linguistics	Main Main
Environmental Design and Planning	Ph.D.	Design; history, theory, and criticism; planning	Main
Environmental Planning	M.E.P.	Landscape ecological planning, urban and regional development, urban design	Main
Environmental Resources	M.S.	GIS/remote sensing, natural resource management, range ecology	East
Exercise and Wellness	M.S.	—	East
Exercise Science	Ph.D.	Biomechanics, motor behavior/sport psychology, physiology of exercise	Main
Exercise Science/Physical Education	M.S.	—	Main
Family and Human Development	M.S.	Family studies	Main
Family Science ⁴	Ph.D.	Marriage and family therapy	Main

¹ This major has formalized concentration(s); other areas of study are available.

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ASU Graduate Degrees (continued)

Major	Degree	Concentration	Campus
French	M.A.	Comparative literature, linguistics, literature	Main
Geography	M.A., Ph.D.	—	Main
Geological Sciences	M.S., Ph.D.	—	Main
German	M.A.	Comparative literature, language and culture, literature	Main
Health Services Administration	M.H.S.A.	—	Main
Higher and Postsecondary Education	M.Ed., Ed.D.	Higher education	Main
History	M.A., Ph.D.	Asian history, British history, European history, Latin American history, public history, U.S. history, U.S. Western history Asian history, British history, European history, Latin American history, U.S. history	Main Main
History and Theory of Art ⁴	Ph.D.	—	Main
Humanities	M.A.	—	Main
Industrial Engineering	M.S., M.S.E., Ph.D.	—	Main
Information Management	M.S.	—	Main
Interdisciplinary Studies	M.A.	—	West
Justice Studies	M.S. Ph.D.	— Criminal and juvenile justice; dispute resolution; law, justice, and minority populations; law, policy, and evaluation; women, law, and justice	Main Main
Law ⁵	J.D.	—	Main
Mass Communication	M.M.C.	—	Main
Materials Engineering	M.S., M.S.E.	—	Main
Materials Science	M.S.	—	Main
Mathematics	M.A., Ph.D.	—	Main
Mechanical Engineering	M.S., M.S.E., Ph.D.	—	Main
Microbiology	M.S., Ph.D.	—	Main
Molecular and Cellular Biology	M.S., Ph.D.	—	Main
Music	M.A. D.M.A.	Ethnomusicology, music history and literature, music theory Choral conducting, music composition, music education, solo performance (instrumental, keyboard, piano pedagogy, voice)	Main Main
Music Education	M.M.	Choral music, general music, instrumental music, jazz studies	Main
Natural Science	M.N.S.	Biology, chemistry, geological sciences, mathematics, microbiology, physics, plant biology	Main
Nursing	M.S.	Adult health nursing, community health nursing, community mental health/psychiatric nursing, family health nursing, nursing administration, parent-child nursing, women's health	Main

¹ This major has formalized concentration(s); other areas of study are available.

² Applications are not being accepted at this time.

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ASU Graduate Degrees (continued)

Major	Degree	Concentration	Campus
Nutrition	M.S.	—	East
Performance	M.M.	Music theatre/opera musical direction, music theatre/opera performance, performance pedagogy, piano accompanying, solo performance (instrumental, keyboard, voice)	Main
Philosophy	M.A., Ph.D.	—	Main
Physical Education	M.P.E.	—	Main
Physics	M.S., Ph.D.	—	Main
Plant Biology ¹	M.S., Ph.D.	Ecology, photosynthesis	Main
Political Science	M.A., Ph.D.	American politics, comparative politics, international relations, political theory	Main
Psychology	Ph.D.	Behavioral neuroscience, clinical psychology, cognitive/behavioral systems, developmental psychology, environmental psychology, quantitative research methods, social psychology	Main
Public Administration	M.P.A.	Public information management, public management, public policy analysis and evaluation, urban management and planning	Main Extended
	D.P.A.	—	Main
Public Health ³	M.P.H.	Community health practice, health administration and policy	Main
Recreation	M.S.	—	Main
Religious Studies	M.A.	—	Main
Science and Engineering of Materials	Ph.D.	High-resolution nanostructure analysis, solid-state device materials design	Main
Secondary Education	M.Ed.	Educational media and computers	West
Social and Philosophical Foundations of Education	M.A.	—	Main
Social Work	M.S.W.	Advanced direct practice; planning, administration, and community practice	Main
	Ph.D.	—	West
Sociology	M.A., Ph.D.	—	Main
Spanish	M.A.	Comparative literature, language and culture, linguistics, literature	Main
	Ph.D.	Cultural studies literature	
Special Education	M.A., M.Ed.	— Infants and young children	Main West
Speech and Hearing Science	Ph.D.	Developmental neurolinguistic disorders, neuroauditory processes, neurogerontologic communication disorders	Main
Statistics	M.S.	—	Main
Taxation	M.Tax.	—	Main
Teaching English as a Second Language	M.TESL	—	Main

¹ This major has formalized concentration(s); other areas of study are available.

² Applications are not being accepted at this time.

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ASU Graduate Degrees (continued)

Major	Degree	Concentration	Campus
Technology	M.S.Tech	Aeronautics engineering technology, aviation human factors, aviation management technology, computer systems engineering technology, electronic systems engineering technology, environmental technology management, fire service administration, global technology and development, information technology, instrumentation and measurement technology, management of technology, manufacturing engineering technology, mechanical engineering technology, microelectronics engineering technology, security engineering technology	East
Theatre	M.A.		Main
	M.F.A.	Performance, scenography, theatre for youth	Main
	Ph.D.	Theatre for youth	Main

¹ This major has formalized concentrations, other areas of study are available

² Applications are not being accepted at this time

³ This collaborative program is offered by the three state universities

⁴ This major is jointly offered with the University of Arizona

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

Concurrent and Dual Degrees

Concurrent or Dual Degrees	Administered By	Campus
Juris Doctor/Master of Health Services Administration	College of Law/School of Health Administration and Policy	Main
Juris Doctor/Master of Science in Economics*	College of Law/Department of Economics	Main
Juris Doctor/Doctor of Philosophy in Justice Studies	College of Law/Committee on Law and Social Sciences	Main
Master of Business Administration/Juris Doctor	College of Business/College of Law	Main
Master of Business Administration/Master of Accountancy and Information Systems	College of Business	Main
Master of Business Administration/Master of Architecture	College of Business/School of Architecture	Main
Master of Business Administration/Master of Health Services Administration	College of Business	Main
Master of Business Administration/Master of International Management	College of Business/American Graduate School of International Management (Thunderbird), Glendale, AZ; ESAN, Lima, Peru; Groupe Ecole Supérieure de Commerce (ESC), Toulouse, France; ITESM-CEM, Mexico City, Mexico; and Universidad Carlos III de Madrid, Madrid, Spain	Main
Master of Business Administration/Master of Science (Economics)	College of Business	Main
Master of Business Administration/Master of Science in Information Management	College of Business	Main
Master of Business Administration/Master of Taxation	College of Business	Main
Master of Science in Engineering (Industrial Engineering)/Master of International Management of Technology	Department of Industrial and Management Systems Engineering/American Graduate School of International Management (Thunderbird)	Main
Master of Science in Justice Studies/Master of Arts in Anthropology	School of Justice Studies/Department of Anthropology	Main
Master of Science in Nursing/Master of Health Services Administration	College of Nursing/School of Health Administration and Policy	Main

* Applications for this program are not being accepted at this time.

International Programs

William G. Davey, Ph.D., Director

ipo.asu.edu



Palacio Nacional, Mexico City

Julie Williams photo

PURPOSE

As an emerging world-class institution, Arizona State University seeks to interact with cultures throughout the world both from an intellectual and educational point of view. International Programs (IPO) endeavors to develop a global competence for students, faculty, and ASU as a whole. IPO therefore encourages students to study abroad, faculty to teach and conduct research in contact with scholars around the world, and academic units 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 notice 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. Europe is developing as a supranational unit in the form of the European Community. 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.

International Programs 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

Two types of programs—study abroad and student exchange—are designed to enhance the international perspectives of students.

Study Abroad Programs. Study abroad programs are arrangements with educational institutions in foreign countries; 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 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's 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 at 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. 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 mainstream 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 term. The costs of these intensive language programs are not included in tuition and registration fees paid to ASU for an exchange.

In addition to Canada and Australia, ASU has exchange agreements in several countries in Latin America, Asia, and Europe. Program availability is under constant review.

Area Studies Programs. International Programs maintains close liaison with ASU's area studies programs, including 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 Barrett 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 College of Business students intending to study abroad. The College of Engineering and Applied Sciences and the Corporate Leaders Program also actively place students in study programs and internships around the world.

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. 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, from the International Programs Web page at ipo.asu.edu, or by phone at 480-965-5965.

Before participating in a study abroad or an exchange program, students are required to complete an information package. An interview is then conducted and students are later 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.

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.

Summer Sessions

Carol Switzer, M.S., Director

www.asu.edu/ssc



Chris Hamlin performs during the annual tuba concert in Cady Fountain.

Tom Trumble photo

PURPOSE

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 terms of content, credit awarded, and the standards expected of students regarding academic performance.

There are three regular sessions, one of eight weeks and two of five weeks. The eight-week session and the first five-week session begin the same date. See the "University Calendar," page 14, for specific dates.

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.

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 during the last week of January.

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

Nondegree Graduate or Undergraduate. An application form is provided in the *Summer Sessions Bulletin*. The submission of transcripts or test scores is not required for this status.

Readmission. ASU students not enrolled during the spring semester preceding the current summer must be readmitted. See "Readmission to the University," page 65.

Conditional admission before graduation from high school may be granted. See "Admission Before Receipt of Final Transcript," page 55.

Advising. All students are strongly encouraged to seek academic advising before enrolling in summer courses. See "Academic Advising," page 64.

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, ADM B167, and at all registrar sites. The *Summer Sessions Bulletin* is also available on the Web at www.asu.edu/ssc.

To request the *Summer Sessions Bulletin*, summer study abroad brochures, or other summer information, call 480/965-6611 or write

SUMMER SESSIONS
ARIZONA STATE UNIVERSITY
PO BOX 873003
TEMPE AZ 85287-3003

Food Services. Meal plans are available. For more information, call 480/965-3464 or write

SODEXHO MARRIOTT SERVICES
ARIZONA STATE UNIVERSITY
PO BOX 870901
TEMPE AZ 85287-0901

Housing. Air-conditioned dormitories are available for ASU Main students. For more information, call 480/965-3515 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 (rubeola) immunity or immunization given after January 1, 1980. See "Immunization Requirements," page 60.

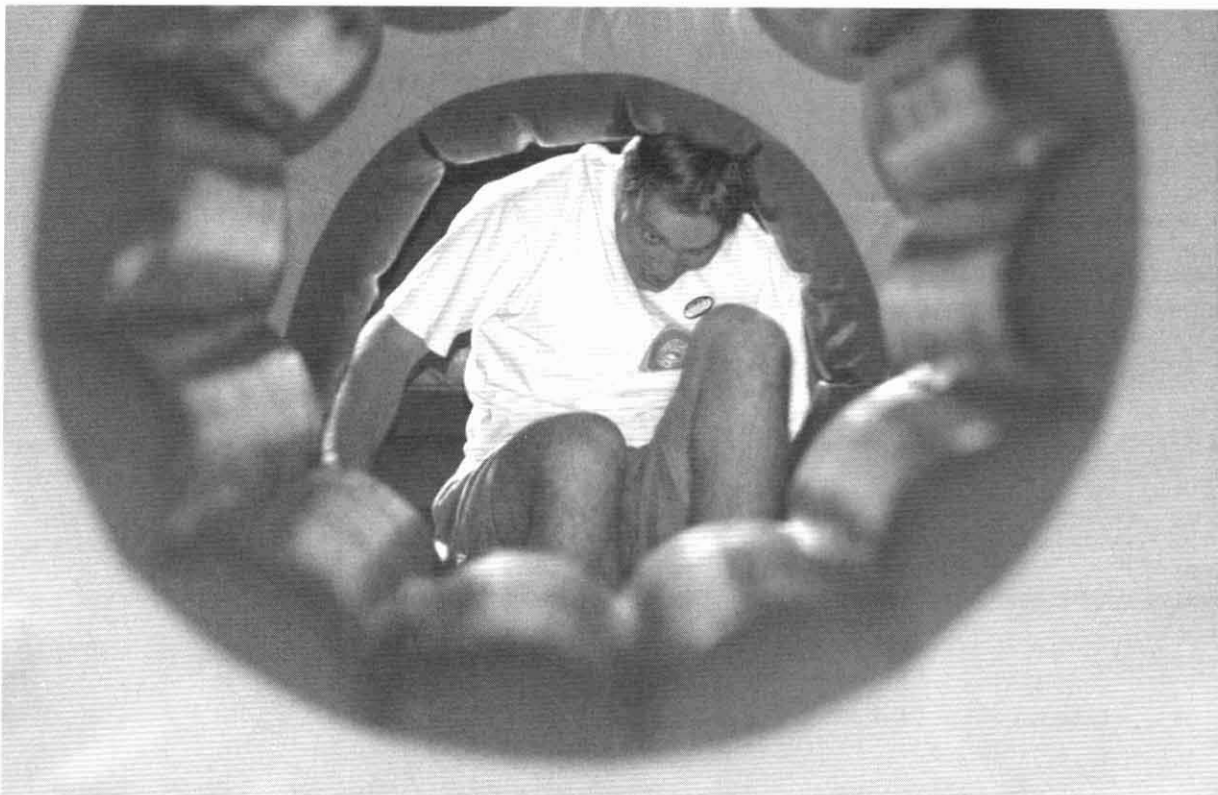
Parking. A decal is required to park at ASU. For more information, call 480/965-6124 or write

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 *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.

Tuition and Fees. Summer sessions students pay for the actual number of semester hours enrolled, plus the Associated Students' Association fee, the Financial Aid Trust Fee, and the Student Recreation Complex fee. Students are also required to pay any special fees attached to specific classes. See the *Summer Sessions Bulletin*.



John Findley participates in one of the many games held during Sparky's Beach Party—2000 Homecoming.

Tim Trumble photo

ASU Main Directory

Organization	Location	Telephone	Web Address
Academic Transfer Articulation Office	AG 272	480 965 2476	www.asu.edu/provost/articulation
Academic Transfer Programs	AG 272 B1	480 965 2476	www.asu.edu/admissions/transfercenter
Course Equivalency Guide	AG 272 B2	480 965-9172	www.asu.edu/provost/articulation
General Studies Guides	AG 272 B2	480/727 6599	www.asu.edu/provost/articulation
Transfer Guides	AG 272	480 965 8332	www.asu.edu/provost/articulation
Accounts Receivable	ADM A109	480 965-6341	
Admissions			
Adult Reentry	MU 14	480 965 2252	www.asu.edu/student/reentry
Graduate	WILSN 101	480 965-6113	www.asu.edu/graduate/admissions
Law	LAW 101	480 965 1474	www.law.asu.edu
Readmissions (Undergraduate)	SSV 142	480 965 7440	www.asu.edu/registrar/readmissions
Undergraduate	SSV 112	480 965 7788	www.asu.edu/admissions
Architecture and Environmental Design, College of	ARCH 134	480 965 8169	www.asu.edu/caed
Architecture School of	AED 162	480/965-3536	www.asu.edu/caed/architecture
Design, School of	AED 154	480 965-4135	www.asu.edu/caed/design
Herberger Center for Design Excellence	ARCH 119	480/965-6693	www.asu.edu/caed/herberger
Planning and Landscape Architecture, School of	AED 158	480 965 7167	www.asu.edu/caed/planning
Arizona Drug and Gang Prevention Resource Center	ASUDC B2	480/727 5015 1-888-432 2347	www.asu.edu/adgprc
Arizona Prevention Resource Center	ASUDC B2	480/727 2772 1 888 432 2772	www.asu.edu/aprc
Associated Students of ASU (ASASU)	MU 310	480 965 3161	www.asu.edu/asasu
ASU Alumni Association	MAIN 200	480/965-2586	www.asu.edu/alumni
Administration	MA N 200	480/965-2086	
Alumni Publications ASU Vision Magazine	MA N 200	480/727-6280	
Alumni Relations	MA N 200	480 965-5276	
Alumni Travel	MAIN 200	480 965 0099	
Business Office	MAIN 200	480/965 9357	
Campuses, Chapters, and College Associations	MAIN 200	480 965-5276	
Career Programs	MAIN 200	480 965-5074	
Membership/Marketing	MAIN 200	480 965 8346	
Records Department	MA N 200	480/965-2127	
Reunions and Traditions	MA N 200	480 965-4282	
Scholarships Alumni Development	MAIN 200	480/965 4034	
Student Relations	MAIN 200	480/965-7754	
Sun Devil Advocates (Grass Roots)	MAIN 200	480/965-4078	
ASU West Alumni Programs	FAB S363	602/543-5315	
ASU East ¹		480/727-3278	www.east.asu.edu
ASU Extended Campus ²		480/965 9696	www.asu.edu/xed
ASU Main		480 965 9011	www.asu.edu
ASU West ³		623/543-5500	www.west.asu.edu
Bookstore ASU	BKSTR	480 965-7928	bookstore.asu.edu
Business College of	BA 123	480 965-4227	www.cob.asu.edu
Accountancy and Information Management School of	BA 223	480 965-3631	www.cob.asu.edu/acct
Economics, Department of	BAC 659	480 965-3531	www.cob.asu.edu/ecn
Finance, Department of	BAC 519	480 965-3131	www.cob.asu.edu/fin

See "ASU East Directory" page 662

See "ASU Extended Campus Directory" page 631

³ See "ASU West Directory" page 64

Organization	Location	Telephone	Web Address
Business, College of (continued)			
Business Administration (M.B.A.)		480 965-3332	www.cob.asu.edu/mba
Business Administration (Ph.D.)		480 965-3368	www.cob.asu.edu/grad/phd
Health Administration and Policy, School of	BA 318	480/965 7778	www.cob.asu.edu/hap
International Business Studies	BA 122	480/965-4066	www.cob.asu.edu/up/pocfm
Management Department of	BA 323	480/965 3431	www.cob.asu.edu/mgt
Marketing, Department of	BAC 460	480 965-3621	www.cob.asu.edu/mkt
Supply Chain Management, Department of	BA 446	480 965-6044	www.cob.asu.edu/scm
Small Business Center for the Advancement of	BAC 111	480 965-3962	www.cob.asu.edu/up/smbusiness.cfm
Campus Dining Services	MU 138	480 965 3464	www.asu.edu/mu/campusdining
Career Services	SSV 329	480 965 2350	career.asu.edu
Cashiering Services	SSV 244	480 965 7468	
Child and Family Services	MU 14C	480/965 9515	www.asu.edu/vpsa/family
Cocurricular Programs	MCL 109B	480 965 9600	www.asu.edu/vpsa/partnerhips
Community Service Program	MU 303	480/965-2255	www.asu.edu/vpsa/community
Counseling and Consultation	SSV 334	480 965 6146	www.asu.edu/counselingcenter/index1.htm
	SHS A168	480 965-4726	
Creative Writing (M.F.A.)	LL 307C	480 965 3528	www.asu.edu/cas/english/creativewriting
Disability Resources for Students	MCENT		www.asu.edu/drs
TTY		480 965 9000	
Voice		480 965 1234	
Drop/Add and Withdrawal Information	SSV 140	480 965 3124	
Education College of	EDB 108	480 965-3306	www.ed.asu.edu/coe
Bilingual Education, Center for	ED 440	480 965 7134	www.asu.edu/educcenter
Computer Support/Student Computer Lab	EDB 122	480 965 2126	
Curriculum and Instruction, Division of	ED 426	480 965 1644	www.ed.asu.edu/coe/cand
Curriculum and Instruction, Graduate Program Office	ED 434	480 965 4602	s.asu.edu/coe
Dean's Office	EDB 104		courses.ed.asu.edu/dean/
Educational Leadership and Policy Studies Division of	ED 120	480 965 3538	bers.asu.edu
Educational Research and Services, Bureau of	EDB 140	48 965 6357	www.coe.asu.edu/eps
Indian Education, Center for	ED 402	480 965 6292	www.asu.edu/educ/ce
Professional Field Experiences, Office of (Student Teaching)	EDB L1-14	480 965 6255	www.ed.asu.edu/coe/pfe
Psychology in Education Admissions Information (Recording, Voice Mail)		480 965 6420	
Psychology in Education Division of	EDB 302	480 965 3384	www.coe.asu.edu/psyched
Student Affairs Office of (Academic Advancing and Certification)	EDB L1 13	480 965 5555	www.asu.edu/educosa
Student Affairs Office of Recruitment and Support Programs Tutoring Scholarships	EDB L1 19	480 965 5555	www.asu.edu/educosa
Educational Opportunity Center	1000 E Apache No. 118	480 894 8451	www.asu.edu/studentlife/eoc
Engineering and Applied Sciences, College of	ECG 100	480 965-3421	www.eas.asu.edu
Biengineering, Department of	ECG 202	480 965 3028	www.eas.asu.edu/bme
Chemical and Materials Engineering Department of	ECG 202	480 965 3313	www.eas.asu.edu/cbme

See ASU East Directory, page 62

² See ASU Extended Campus Directory, page 691.

³ See ASU West Directory, page 674

Organization	Location	Telephone	Web Address
Engineering and Applied Sciences, College of (continued)	ECG 100	480 965 3421	www.eas.asu.edu
Civil and Environmental Engineering, Department of	ECG 252	480 965-3589	www.eas.asu.edu/cv
Computer Science and Engineering Department of	GWC 206	480 965 3190	www.eas.asu.edu/csdept
Construction, Del E. Webb School of	SCOB 241	480 965 3615	ceaspub.eas.asu.edu/dewsc
Electrical Engineering Department of	ENGRC 552	480 965-3424	www.eas.asu.edu/ee
Engineering School of	ECG 104	480 965 1726	
Industrial Engineering, Department of	GWC 502	480 965 3185	www.eas.asu.edu/mse
Mechanical and Aerospace Engineering Department of	ECG 346	480 965 3291	www.eas.asu.edu/mae
Equity Opportunity Affirmative Action TTY	ADM B171	480 965 5057 480 965-0471	www.eoaa.asu.edu
Exercise Science Ph.D.	PEBW M201	480 965 7906	www.asu.edu/cias/espe
Extended Education, College of ²	DTC C319	480 965 9696	www.asu.edu/xed
FASTT: Financial Aid Services Through Technology		480 968-4400	www.asu.edu/fastt
Fine Arts, Herberger College of	GHALL 132	480 965 6536	herbergercollege.asu.edu
Art, School of	ART 102	480 965-3468	herbergercollege.asu.edu/art
Dance, Department of	PEBE 107B	480 965-5029	herbergercollege.asu.edu/dance
Music, School of	MUSIC E183	480 965 3371	herbergercollege.asu.edu/music
Theatre, Department of	GHALL 232	480 965-5359	herbergercollege.asu.edu/theatre
Gerontology (Certificate)	WHALL 116	480 965 3225	www.asu.edu/graduate/gerontology
Graduate College	WILSN lobby	480 965-3521	www.asu.edu/graduate
Admissions	WILSN 101	480 965 6113	www.asu.edu/graduate/frappy.html
Advising Office	WILSN lobby	480 965 3521	www.asu.edu/graduate/checklist.html#ADVISING
Financial Assistance	WILSN 120	480 965 3521	www.asu.edu/graduate/gradad
Format Office		480 965-3521	
General Office	—	480 965-3521	
Scholarships		480 965 3521	
Graduation Section			www.asu.edu/registrar/graduation
Commencement Office	ADM B167	480 965 6611	www.asu.edu/ssc/commence
Graduate Divisions	SSV 140	480 965 6980	
Undergraduate Divisions	SSV 140	480 965-3256	
Greek Life	MU 305	480 965 2255	www.asu.edu/vpsa/greeklife
HOME: Housing Options Made Easy)		480 303-3434	www.asu.edu/reslife
Honors College, Barrett	IRISH A121	480 965 2359	www.asu.edu/honors
Information Technology			www.asu.edu/it
Computer Accounts Office	CPCQM 105	480 965-1211	www.asu.edu/computeraccounts
Computing Site Hours		480 965 6500	www.asu.edu/it/sites/comphourscat.htm
Computing Sites	CPCQM atrium	480 965 4459	www.asu.edu/computingsites
	BAC 16	480 965 3074	
	ECG 150	480 965 6280	
	GWC 185	480 965 4307	
Customer Assistance Center	CPCQM 202	480 965-5939	www.asu.edu/cacenter
Geographic Information Systems Lab	CPCQM 235	480 965 4007	www.asu.edu/gislab
Help Desk	CPCQM 202	480 965 6500	www.asu.edu/helpdesk
Instruction Support Lab	CPCQM 213	480 965-6739	www.asu.edu
Visualization Services	CPCQM 235	480 965 9699	www.asu.edu/visualization
International Programs Office	MOEUR 124	480 965 5965	po.asu.edu
International Student Office	SSV 265	480 965 7451	www.asu.edu/studentlife/so
International Undergraduate Admissions	SSV 101	480 965 2688	www.asu.edu/admissions/applyingtoasu
InTouch		480 35 1500	www.asu.edu/registrar/regstrat/ntouch.htm

See "ASU East Directory," page 662

² See "ASU Extended Campus Directory," page 691

³ See "ASU West Directory," page 674

Organizat on	Locat on	Te ephone	Web Address
Justice Studies (Ph D.)	WILSN 316	480 965 7682	www.asu.edu/copp_justice/home.htm
Law, College of	LAW 101	480 965 6181	www.law.asu.edu
Admissions Office		480 965-1474	
TTY		480 965-2048	
Learning Resource Center	SSV 394	480 965-6254	www.asu.edu/vpsa/lrc
Liberal Arts and Sciences, College of	SS 111	480 965 6506	www.asu.edu/cas
Aerospace Studies Department of	TC 324	480 965-3181	www.asu.edu/cas/afrotc
African American Studies	HEC 227	480 965 4399	www.asu.edu/cas/afamstu
Anthropology, Department of	ANTH 233	480 965 6213	www.asu.edu/cas/anthropology
Biology, Department of	LS C226	480 965-3571	www.asu.edu/cas/biology
Chemistry and Biochemistry	PS D102	480 965 3461	www.asu.edu/cas/chemistry
Department of			
Chicana and Chicano Studies,	COWDN 224	480 965 5091	www.asu.edu/cas/chicana
Department of			
English, Department of	LL 542	480 965 3168	www.asu.edu/cas/english
Exercise Science and Physical Education,	PEBW M212	480 965-3875	www.asu.edu/cas/espe
Department of			
Family and Human Development,	COWDN 106	480 965 6978	www.asu.edu/cas/frhd
Department of			
Geography Department of	SCOB 340H1	480 965 7533	geography.asu.edu
Geological Sciences, Department of	PS F686	480 965 5081	geology.asu.edu
History Department of	SS 204	480 965 5778	www.asu.edu/cas/history
Interdisciplinary Humanities Program	LL 641	480 965-6747	www.asu.edu/cas/humanities
Languages and Literatures	LL 440	480 965 6281	www.asu.edu/cas/d
Department of			
Mathematics, Department of	PS A216	480 965 3951	math.asu.edu
Microbiology, Department of	LS E210	480 965-1457	www.asu.edu/cas/microbiology
Molecular Biology and Biotechnology	LS E218	480 965 3414	www.asu.edu/cas/mbb
Molecular and Cellular Biology	LSE 441	480 965 0743	www.asu.edu/cas/mcb
Military Science Department of	TC B100	480 965-3318	www.asu.edu/cas/military
Philosophy, Department of	PS A524	480 965 3394	www.asu.edu/cas/philosophy
Physics and Astronomy Department of	PS F470	480 965 3561	physics.asu.edu
Plant Biology Department of	LS E218	480 965 3414	www.asu.edu/cas/plantbiology
Political Science, Department of	SS 410	480 965 6551	www.asu.edu/cas/politics
Psychology Department of	PSY 237	480 965 3326	www.asu.edu/cas/psych
Religious Studies Department of	ECA 377	480 965-7145	www.asu.edu/cas/religiousstudies
Sociology Department of	SS 321	480 965 3546	www.asu.edu/cas/sociology
Speech and Hearing Science,	LL 173A	480 965 2374	www.asu.edu/cas/shs
Department of			
Women's Studies Program	ECA 209	480 965 2358	www.asu.edu/cas/womensstudies
Libraries (See "University Libraries," page 527.)			
Memorial Union	MU		www.asu.edu/mu
Administrative Offices	MU mezzanine	480 965 5310	www.asu.edu/mu/staff.html
Event Meeting Services	MU 1st eve	480 965-3406	www.asu.edu/mu/ems.html
Information Desk	MU 1st eve	480 965-5728	
Lost and Found	MU 1st eve	480 965 5728	
Sun Dev Involvement Center	MU 3rd eve	480 965-2255	www.asu.edu/mu/sdich.htm
Multicultural Student Center	SSV 394	480 965 6060	www.asu.edu/studentfe/msc
New Student Programs	SSV 110	480 965-2880	www.asu.edu/admissions/newstudentprograms
Nursing, College of	NUR 344	480 965 3244	www.asu.edu/nursing
Community Health Services Clinic		480/941-9283	www.asu.edu/nursing/chs
Continuing and Extended Education	CSB 334	480 965 7431	www.asu.edu/nursing/ce
Graduate Program	NUR 444	480 965 3948	www.asu.edu/nursing
Student Service Office	NUR 108	480/965-2987	www.asu.edu/nursing/studentservices
Operator, University		480 965 9011	

See "ASU East Directory," page 667.
 See "ASU Extended Campus Directory," page 691.
 See "ASU West Directory," page 674.

Organizat on	Locat on	Te ephone	Web Address
Parents Assoc ation (Programs)	SSV 110	480 965-2602	www.asu.edu adm ss ons/parentprograms
Park ng and Trans t Serv ces	TOWER 107	480 965 6406	www.asu.edu dps pts
Pub c Programs Co ege of	WILSN 234	480 965 1034	www.asu.edu copp
Advanced Public Execut ve Program	ASUDC C110	480 965-4006	www.asu.edu copp apep
Amer can Indian Stud es Program	AG 372	480 965-3634	www.asu.edu copp americanind an
As an Pac f c Amer can Stud es Program	AG 352	480 965 9711	www.asu.edu copp asianamer can
Human Commun'cat on Hugh Downs School of	STAUF A412	480 965 5095	com pp.asu.edu
Journalism and Telecommunicat on, Walter Cronkite School of	STAUF A231	480 965 5011	www.asu.edu cronkite
Justice Stud es, School of	W LSN 331	480 965-7682	www.asu.edu copp justice
Morr son Institute fo Pub c Po cy	UVCMN 203	480 965 4525	www.asu.edu copp morr son
Nonprof t Leadersh p and Management, Center for	AG 346	480 965 0607	www.asu.edu copp nonprofit
Public Affairs School of	WILSN 208	480 965 3926	spa.asu.edu
Recreat on Management and Tour sm Department of	MOEUR 131	480 965 7291	www.asu.edu copp recreat on
Soc a Work, School of	WHALL 135	480 965 3304	ssw.asu.edu
Urban nqu ry, Center for	AG 320B	480 965 9216	www.asu.edu copp urban
Readm ss ons Undergraduate	SSV 142	480 965 7440	www.asu.edu registrar readm ss ons
Registrar	SSV 140		www.asu.edu registrar
Expedite		480 968-5988	www.asu.edu registrar general exped te.htm
InTouch		480 350 1500	www.asu.edu registrar reg strat on/ ntouch.html
TTY		480 965 3236	
Voice		480 965-3124	
Res dency C assif cat on	SSV 170	480 965 7712	www.asu.edu registrar res dency
Res dent al L fe	SSV 170	480 965-3515	www.asu.edu res fe
Science and Eng neer ng of Mater a s (Ph D)	PS B135	480 965 2460	www.asu.edu graduate SEM
Speech and Hear ng Science (Ph D.)	CSB 146	480 965 2373	www.asu.edu c as shs
Stat st cs (M S)	BAC 570	480 965 2671	www.asu.edu graduate stat st cs
Student Affa rs Research and Eva uat on Off ce	MU 14D	480 965 4070	www.asu.edu vpsa/research
Student Ad D sbursement	SSV 235	480 965 2956	www.asu.edu fastt/app y d sbursement.html
Student Business Serv ces	ADM A105	480 965-6301	
Student Deve opment	MU 182	480 965 7313	www.asu.edu vpsa/sd
Student Employment	SSV 202		www.asu.edu fa/studem p
Off-Campus		480 965-6318	
On Campus		480 965 5186	
Student F nanc a Ass stance	SSV 216A	480 965 3355	www.asu.edu fastt
Student Foundation	MU 340	480 965 5731	
Student Hea th and We ness Center	SHS	480 965 3346	www.asu.edu hea th
Appo ntments		480 965 3349	
Fax		48 965-8914	
Mea es format on		480 965 1358	
Student D Sun Card	MU 190	480 965 2273	www.suncard1.com
Student Leadersh p Programs	MU 340	480 965-2255	www.asu.edu vpsa/s p
Student L fe	SSV 263	480 965-6547	www.asu.edu student lfe
Student Med a	MCENT 2	48 965 7572	www.statepress.com aboutus
State Press Advert sing		480 965 6555	www.statepress.com spress
Stat Pre s nformat on		480 965 7572	
State Press Newsroom		48 965 2292	
Web Dev l		48 727 6941	www.statepress.com

See "ASU E st D r t ry, e 66"

See "ASU E xte d d C i p s Direct ry, p 69"

See "ASU We t D r t ry, p 64"

Organization	Location	Telephone	Web Address
Student Organization Resource Center	MU 340	480/965-2255	www.asu.edu/clubs
Student Recreation Complex and Recreational Sports	SRC 220	480/965-8900	www.asu.edu/src
Summer Sessions, Office of	ADM B167	480/965-6611	www.asu.edu/ssc
Summer International Programs	AG 313	480/965-6611	www.asu.edu/ssc/StudyAbroad
Testing Support Services	SSV 322	480/965-6777	www.asu.edu/uts
Tickets	—	—	—
Athletic Events, Intercollegiate (Sun Devil Ticket Office)	—	480/965-2381	—
Gammage Box Office	GGMA	480/965-3434	—
Public Event Information	—	480/965-5062	—
Transcripts (Outgoing)	SSV 140B	480/965-7276	www.asu.edu/registrar/transcripts
Transportation Systems (Certificate)	ARCH 119	480/965-6395	eastair.east.asu.edu/transportation
Tuition Payment Office	SSV 235	480/965-4347	—
Undergraduate Academic Services, Division of	UASB	480/965-3097	www.asu.edu/duas
Academic Success at the University (UNI 100 and 101) (Student Success Center)	ED 410	480/965-3097	www.asu.edu/duas/uni100
Bachelor of Interdisciplinary Studies (B.I.S.)	UASB 200	480/965-1970	www.asu.edu/duas/bis
Campus Match	ED 410	480/965-3097	www.asu.edu/duas/campmat
Cross-College Advising Services	UASB 129	480/965-4464	www.asu.edu/duas/cas
Declaration of Graduation	—	—	www.asu.edu/duas/dog
Degree Audit Reporting System (DARS)	UASB 100	480/965-8012	www.asu.edu/duas/dars
General Studies Program	UASB 230	480/965-0739	www.asu.edu/duas/genstudies
Service Learning	UASB 200	480/727-6657	www.asu.edu/duas/serviceam
Summer Bridge	ED 410	480/965-3097	www.asu.edu/duas/bridge
Supplemental Instruction	ED 410	480/965-3097	www.asu.edu/duas/si
Writing Across the Curriculum Support and Development	ED 410	480/965-3097	www.asu.edu/duas/wac
Writing Center	LL 340	480/965-4272	www.asu.edu/duas/wcenter
University Evaluation, Office of	AG 281	480/965-9291	www.asu.edu/oue
University Libraries	LIB	480/965-6164	www.asu.edu/libraries
Archives and Manuscripts, Department of	LIB 413	480/965-3145	www.asu.edu/lib/archives
Architecture and Environmental Design Library	AED 153	480/965-6400	www.asu.edu/caed/AEDlibrary/
East Campus Library	CNTR	480/727-1037	eastlib.east.asu.edu
Hayden Library (Circulation Desk)	LIB	480/965-3605	www.asu.edu/lib/hayden
Library Administration	LIB	480/965-3417	—
Music Library	MUSIC W302	480/965-3513	www.asu.edu/lib/music
Noble Science and Engineering Library	NOBLE	480/965-2600	—
Reference Questions	—	480/965-4932	—
Ross-Blakley Law Library	LAWLB	480/965-6141	www.lawlib.asu.edu
Video Resources	ECA 100	480/965-5046	www.asu.edu/lib/video
West Campus Library	FLHLB	602/543-8501	www.west.asu.edu/library
University Testing Services	EDB 301	480/965-7146	www.asu.edu/uts
Upward Bound	SSV 276	480/965-6483	www.asu.edu/studentlife/ub/main.html
Veterans Services Section	SSV 148	480/965-7723	www.asu.edu/registrar/veterans
Veterans Upward Bound	1000 E Apache No. 106	480/965-3944	www.asu.edu/studentlife/vub
Winter Session	—	480/965-9797	www.asu.edu/xed/wntrssn.html

¹ See "ASU East Directory," page 662.

² See "ASU Extended Campus Directory," page 691.

³ See "ASU West Directory," page 674.

Regents' Professors

The title "regents' professor" is conferred on selected members of the ASU tenured faculty who have achieved and are sustaining the highest level of distinction by their exceptional contributions to the mission of the university in research or other creative activity and in teaching or professional service.



JOHN ALCOCK
Biology



JEFFREY COOK
Architecture



RONALD GREELEY
Geology



DAVID L. ALTHEIDE
Justice Studies



JOHN M. COWLEY
*Physics and Astronomy
Emeritus*



DAVID R. HICKMAN
Music



C. AUSTEN ANGELL
Chemistry and Biochemistry



NORMAN DUBIE
English



PETER IVERSON
History



CONSTANTINE A. BALANIS
Electrical Engineering



NANCY H. EISENBERG
Psychology



DAVID H. KAYE
Law



DAVID C. BERLINER
*Educational Leadership and
Policy Studies and
Psychology in Education*



LEROY EYRING
*Chemistry and Biochemistry
Emeritus*



GARY D. KELLER
Spanish



PETER R. BUSECK
*Chemistry and Biochemistry
and Geology*



DAVID K. FERRY
Electrical Engineering



RAYMOND W. KULHAVY
Psychology in Education



ROBERT B. CIALDINI
Psychology



DAVID WILLIAM FOSTER
Spanish



DANIEL M. LANDERS
*Exercise Science
and Physical Education*



SHENG H. LIN
Chemistry and Biochemistry
Emeritus



CAIO PAGANO
Music



JOHN C.H. SPENCE
Physics and Astronomy



JAMES W. MAYER
Chemical and Materials
Engineering



DENNIS J. PALUMBO
Justice Studies
Emeritus



MARY BETH STEARNS
Physics and Astronomy
Emeritus



LEE MEYERSON
Psychology
Emeritus



GEORGE R. PETTIT
Chemistry and Biochemistry



WILLIAM T. TROTTER
Mathematics



CARLETON B. MOORE
Chemistry and Biochemistry
and Geology



ALBERTO ALVARO RIOS
English



CHRISTY G. TURNER II
Anthropology



JEFFRIE G. MURPHY
Law and Philosophy



NANCY FELIPE RUSSO
Psychology



J. BRUCE WAGNER JR.
Center for Solid-State
Science and
Chemistry and Biochemistry
Emeritus



MICHAEL O'KEEFFE
Chemistry and Biochemistry



DAVID J. SMITH
Physics and Astronomy and
Center for Solid-State Science



KURT WEISER
Art

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

Aanenson, Todd (2000), Faculty Associate of Construction, B.S. Arizona State University

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

Abbaszadegan, Morteza 1999, Associate Professor of Civil and Environmental Engineering and Adjunct Faculty of Microbiology, B.S., University of Montana; M.S., Northern Arizona University; Ph.D., University of Arizona

Abele, Deborah 1991, 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, Boston

Abramson, Jay 1999, Lecturer of Mathematics, B.S., University of New Mexico, M.S., University of New Hampshire

Abston, Deborah 1990, Associate Librarian, Hayden Reference Services, 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.S., 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 Engineering, Interim Codirector, Science and Engineering of Materials, B.S., Duke University, M.S., Ph.D. University of Wisconsin (Madison)

Adams, Karen L. 1984, 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 (Russia), 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

Ahrendt, Laurie 2002, Faculty Associate of Nursing, B.S.N., M.S., Arizona 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, Professor of Physics and Astronomy, B.S., M.S., University of Chile (Chile), Ph.D., Ohio University

Alberts, Jess K. 1989, Professor of Communication, Director, Hugh Downs School of Human 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 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, Professor Emeritus 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 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. University of Cincinnati, M.S., 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, Professor of Chemistry and Biochemistry, B.S., Saint Joseph's University, M.S., Ph.D., University of Illinois
- Allen, Jonathan** (2001), Assistant Professor of Chemical Engineering and Civil and Environmental Engineering; B.S., University of Pennsylvania; M.S., Sc.D., Massachusetts Institute of Technology
- Allison, Maria T.** 1984, Professor of Recreation Management and Tourism; B.S., M.S., University of New Mexico; Ph.D. University of Illinois
- Alozie, Nicholas O.** 1991, Associate Professor of Public Affairs; B.A., M.P.A. Texas Southern University, M.A., Ph.D. University of Texas, Dallas
- Alpers, Rojann** (1995), Associate 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; Interim Director, Justice Studies Master's Program, 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 R. Jr.** (1989), Professor of Anthropology, B.A., Northern Arizona University, M.A., San Diego State University; M.A., Ph.D., Stanford University
- Amazeen, Eric P.** (1999), Assistant Professor of Psychology; B.A., Franklin and Marshall College; M.A., Ph.D., University of Connecticut
- Amazeen, Polemnia G.** 1999, Assistant Professor of Psychology; B.A., Franklin and Marshall College, M.A., Ph.D. University of Connecticut
- 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, 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), Professor Emeritus of Curriculum and Instruction, B.S., M.Ed., Edinboro State College, Ph.D., University of Pittsburgh
- Anderson, Lisa M.** (2000), Assistant Professor of Women's Studies; A.B., Mount Holyoke College, M.A., Smith College, Ph.D. University of Washington
- 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 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 Curriculum and Instruction; B.A., Florida State University, M.A., Ph.D., University of North Carolina, Greensboro
- Appleton, Nicholas R.** (1972), Professor of Educational Leadership and Policy Studies, Director, Division of Curriculum and Instruction, Associate Dean, 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 Curriculum and Instruction; 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, Abitur, Zeppelin, Gymnasium, Germany, Diploma, Ph.D., University of Tübingen, Germany
- Armendt, 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 Curriculum and Instruction, 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.** 2000, Florence Ely Nelson Presidential Chair, 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
- Arredondo, Patricia** (1999), Associate Professor of Psychology in Education; B.S., Kent State University, Ed.M., Boston College, Ed.D., Boston University
- Arreola, Daniel** 1991, 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 Geological Sciences; B.A., Whittier College, Ph.D., Stanford University
- Arterian, Hannah R.** 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, Center for Nonprofit Leadership and Management, 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

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.Crim., 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 Emeritus 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

Autore, Donald D. (1959), Professor Emeritus of Technology, B.S.E., University of Michigan; M.S.E., Arizona State University

Axelrod, Morris (1972), Professor Emeritus of Sociology, B.A., Ph.D., University of Michigan

Axford, Roger W. (1975), Professor Emeritus of Curriculum and Instruction, B.A., Nebraska Wesleyan University, M.A., Ph.D., University of Chicago

Ayyanar, Raja (2000), Assistant Professor of Electrical Engineering, B.E., P.S.G. College of Technology, India; M.S., Indian Institute of Science, India; Ph.D., University of Minnesota

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. (1965), Professor of Electrical Engineering, Campus Chief Executive Officer and Provost, ASU East, Vice President, ASU, B.S.M.E., Ohio University, M.S., Ph.D., University of Arizona

Bacon, Catherine K. (1991), 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 (1973), Professor Emeritus of Music, B.S., Oakland University

Badger, William W. (1955), 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. (1985), 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 Emeritus of Industrial Engineering, B.S.I.E., M.S.I.E., Ph.D., Wayne State University

Bailey, Wayne A. (2000), Professor of Music, Director, School of Music, B.M.E., Iowa State University; M.M., University of Michigan, D.M.A., University of Colorado

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 Curriculum and Instruction, B.A., University of Oklahoma; M.A.T., Trenton State College, Ed.D., Rutgers, The State University of New Jersey

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, Marc A. (1988), Adjunct Faculty of Plant Biology, B.A., San Jose State University; M.A., Humboldt State University, Ph.D., Arizona State University

Baker, Virgil R. (1966), Professor Emeritus of Geography, B.S., M.S., University of Nebraska; Ph.D., University of Utah

Balanis, Constantine A. (1983), Regents' Professor of Electrical Engineering, B.S.E.E., Virginia Polytechnic Institute and State University; M.E.E., University of Virginia, Ph.D., Ohio State 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 (1978), Professor of Political Science, B.A., University of California, Santa Cruz, M.A., Ph.D., University of California, Berkeley

Ballentine, James Terry (2000), Faculty Associate of Nursing, B.S., M.S., Arizona State University

Ballew, Tad (1998), Assistant Professor of Interdisciplinary Humanities, B.A., University of California, Santa Barbara, M.A., 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, Bachelor en Letras, Bachiller en Derecho, University of Arequipa, Peru; Doctor en Literatura, National University of San Marcos, Peru; Doctorat en Etudes Iberiques, University of Paris III, France

Balogh, Stephen (1998), Lecturer of Computer Information Systems, B.S., M.A., Ph.D., Ohio State University

Baral, Chitta (1999), Associate Professor of Computer Science and Engineering, B.Tech., Indian Institute of Technology, India; M.S., Ph.D., University of Maryland, College Park

Barbas, Samantha (2000), Lecturer, Division of Undergraduate Academic Services, B.A., Williams College; M.A., Ph.D., University of California, Berkeley

Barcelo, Hélène (1990), Associate Professor of Mathematics, M.S., University of Quebec, Canada; Ph.D., University of California, San Diego

- Bardewyck, Loretta A.** 1957, Professor Emeritus of Nursing; Dean Emeritus, College of Nursing; P.H.N., B.S., University of Minnesota, Twin Cities, M.S., Cornell University
- Bardrick, Richard A.** 1956, Professor Emeritus of Psychology, A.B., Ph.D., University of California, Los Angeles
- Barker, David** 1983, Professor of Theatre; B.S.E., Duquesne University, M.F.A., Rutgers, The State University of New Jersey
- Barkley, Margaret V.** 1963, Professor Emeritus of Family and Human Development, B.S., Millikin University, M.S., Ed.D., University of Illinois
- Barkson, Joseph A.** (1958), Professor Emeritus of Engineering; B.S.E.E., University of Michigan; M.S., Ph.D., University of Illinois
- Barlow, Richard B.** 1964, Professor Emeritus of History; B.A., M.A., Ph.D., University of Pennsylvania
- Barnard, John P.** (1991), 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, Andrés** (1986), Professor of Psychology in 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), Associate Professor of Journalism and Telecommunication; B.S., Kutztown University; M.P.S., Syracuse University, Ph.D., Michigan State University
- Barroll-Aschaffenburg, Rayna** 1980, Professor Emeritus 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
- Bartlett, Mark** 2000, Associate Law Librarian, B.A., University of New Brunswick (Canada); M.L.I.S., Dalhousie University (Canada)
- Barto, Michelle** 1999, Lecturer of Speech and Hearing Science, B.A., M.Ed., Arizona State University
- Barton, C. Michael** (1987), Associate Professor of Anthropology, Collections Administrator, B.A., University of Kansas; M.A., Ph.D., University of Arizona
- Barton, John L.** (1994), Senior Lecturer of Psychology; B.A., University of Nebraska, Lincoln; M.A., Ph.D., Arizona State University
- Bartz, Donna** 1968, Professor Emeritus 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)
- Bauer, Richard** 2000, Lecturer of Chemistry and Biochemistry; B.S., Saginaw Valley State University; M.S., Ph.D., Purdue University
- 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
- Beals, Stephen P.** 1996, Adjunct Professor of Speech and Hearing Science, B.S., Calvin College, M.D., Wayne State University College of Medicine
- Beardmore, Gary D.** (1979), Associate Research Technologist of Geological Sciences; B.A., Arizona State University
- Bearup, Wylie K., Lt. Col.** (1997), Professor Emeritus of Military Science; B.S., M.S., University of Arizona, Ph.D., University of Illinois
- Beaudoin, Stephen P.** 1995, Associate Professor of Chemical Engineering, B.S., Massachusetts Institute of Technology, M.S., University of Texas, Austin; Ph.D., North Carolina State University
- Beck, Lasca** (1984), Clinical Associate Professor of Nursing; B.S.N., Texas Woman's University; M.S., Texas A&M University, Commerce
- Beckman, James R.** 1980, Associate Professor of Chemical Engineering, B.S., M.S., University of Wisconsin; Ph.D., University of Arizona
- Bedard, Roger L.** 1990, Professor of Theatre; B.A., University of Northern Iowa; M.F.A., University of Oregon, Ph.D., University of Kansas
- Bedgood, Dan** (1997), Senior Lecturer of Chemistry and Biochemistry; B.S., George Mason University, Ph.D., Montana State University
- Bedient, Jack D.** 1963, Professor Emeritus of Mathematics; A.B., Albion College; M.B.S., Ed.D., University of Colorado
- Bedworth, David D.** 1963, Professor Emeritus of Industrial Engineering; B.S.I.E., Lamar College of Technology, M.S.I.E., Ph.D., Purdue University
- Beggs, Donald** 1999, Lecturer of the Barrett Honors College; A.B., University of California, Berkeley, Ph.D., University of California, Santa Cruz
- Behrens, John T.** (1994), Associate Professor of Psychology in Education, B.A., University of Notre Dame, M.A., Ph.D., Arizona State University
- Bell, George H.** (1976-82; 1989), Librarian, Noble Science Reference Services, B.A., William Paterson College, M.L.S., Pratt Institute

- Bell, James W.** 1966, Professor Emeritus of Curriculum and Instruction; B.A., Washburn University of Topeka; M.Ed., Ed.D., University of Kansas
- Bell, John E.** 1965, Professor Emeritus of Curriculum and Instruction; B.S., University of Nebraska, Lincoln; M.A., Ed.D., University of Wyoming
- Bell, Mary E.** 1970, Professor Emeritus of Education; B.S., Indiana State Teachers College, M.S., Butler University; Ed.D., Indiana University, Bloomington
- Bell, Shirley** 1985, Clinical Associate Professor of Nursing; B.S.N., University of Cincinnati; M.S.N., Wayne State University; Ed.D., West Virginia University
- Bellamy, Lynn** 1976, Professor Emeritus of Chemical Engineering; B.S., Texas A&M University; M.S., Ph.D., Tulane University
- Belok, Michael V.** 1959, Professor Emeritus of Education; B.S., Indiana University; B.S., M.A., Arizona State University; Ph.D., University of Southern California
- Benavides, Alfredo H.** 1988, Associate Professor of Curriculum and Instruction; B.A., Texas A&M University; M.A., Ph.D., Michigan State University
- Bender, Bert A.** 1971, Professor of English; B.A., University of Washington; Ph.D., University of California, Irvine
- Bender, Gordon L.** 1973, Professor Emeritus of Biology; B.S., Iowa State College; M.S., University of Wisconsin; Ph.D., University of Illinois
- Bender, Paul** 1984, Professor of Law; A.B., L.B., Harvard University
- Benedict, Joel A.** 1946, Professor Emeritus of Education; B.A., M.A., Arizona State University; Ed.D., Stanford University
- Benin, David B.** 1977, Associate Professor of Physics and Astronomy; A.B., Cornell University; M.A., Ph.D., University of Rochester
- Benin, Mary B.** 1979, Associate Professor of Sociology; B.A., Vanderbilt University; M.A., Ph.D., University of Nebraska, Lincoln
- Bennett, ElDean** 1977, Professor Emeritus of Telecommunications and Telecommunications; B.A., Brigham Young University; M.A., Ph.D., Michigan State University
- Bennett, Peter A.** 1984, Professor of Physics and Astronomy; B.A., University of Minnesota, Duluth; Ph.D., University of Wisconsin, Madison
- Benzinger, Robert P.** 1970, Professor Emeritus of Design; B.S.M.E., University of Wisconsin, Madison; M.A.E., Chrysler Institute of Engineering
- Berch, Michael A.** 1969, Professor of Law; B.A., J.D., Columbia University
- Berens, Michael E.** 1995, Adjunct Faculty of Biology; B.S., Arizona State University; Ph.D., University of Arizona
- Berliner, David C.** 1957, Regents Professor of Educational Leadership and Policy Studies and Psychology in Education; Dean, College of Education; B.A., University of California, Los Angeles; M.A., California State University, Los Angeles; Ph.D., Stanford University
- Berman, David R.** 1966, Professor of Political Science; B.A., Rockford College; M.A., Ph.D., Antioch University
- Berman, Neil S.** 1964, Professor Emeritus of Chemical Engineering; B.S., University of Wisconsin; M.S., M.A., Ph.D., University of Texas
- Bernal, Martha E.** 1986, Professor Emeritus of Psychology; B.A., University of Texas, El Paso; M.A., Syracuse University; Ph.D., Indiana University, Bloomington
- Bernard, Stephen Z.** 1994, Faculty Associate of Construction; B.S., Arizona State University
- Bernardi, Jose** 1995, Associate Professor of Design; B.Arch., National University of Cordoba; M.S., University of Cincinnati
- Bernier, Allen** 1995, Lecturer of Spanish; B.A., University of Wisconsin, Oshkosh; M.A., Arizona State University
- Bernstein, Bianca I.** 1987, Professor of Counseling Psychology and Counselor Education; Dean, Graduate College; B.A., University of California, Berkeley; M.Ed., Ph.D., University of California, Santa Barbara
- Bernstein, Mary** 1977, Assistant Professor of Justice Studies; B.A., Middlebury College; M.A., Ph.D., New York University
- Bertelsen, Wendle R.** (1964, Professor Emeritus of Architecture; B.Arch., University of Michigan; M.Arch., University of Arizona
- Bertrand, Cheryl** 1996, Administrative Assistant of Military Science; B.A.E., Arizona State University
- Bess, Vicki** 1994, Adjunct Faculty of Microbiology; M.S., Arizona State University
- Bessom, Richard M.** 1968, Professor Emeritus of Marketing; A.B., Cornell University; M.B.A., Stanford University; Ph.D., University of Washington
- Betz, M. Austin** 1974, Professor Emeritus of Civil Education; B.S., Lock Haven State College; M.Ed., Pennsylvania State University; M.A.T., Brown University; M.A., Ph.D., University of Illinois
- Betz, Mathew J. III** 1961, Professor Emeritus of Civil Engineering; B.S., M.S., Ph.D., Northwestern University
- Bhattacharya, Sourav** 1996, Associate Professor of Computer Science and Engineering; B.E., Jadavpur University, India; M.Tech., Indian Institute of Technology, India; M.S., University of Southwestern Louisiana; Ph.D., University of Minnesota
- Bhattacharjee, Anol** 1999, Assistant Professor of Computer Information Systems; B.S., Indian Institute of Technology (India); M.B.A., Ph.D., University of Houston
- Biblarz, Dora** 1985, Librarian Emeritus; B.A., M.L.S., University of California, Los Angeles; M.A., University of California, Davis
- Bickford, William B.** 1966, Professor Emeritus of Engineering; B.S., M.S., Kansas State University; Ph.D., University of Illinois
- Bieber, Allan I.** 1963, Research Professor of Chemistry and Biochemistry; Director, Interdisciplinary Committee on Molecular and Cellular Biology; B.S., M.S., North Dakota State University; Ph.D., Oregon State University
- Bingham, Scott** 1959, Associate Research Scientist of Plant Biology; B.S., Brown University; Ph.D., Brandeis University
- Bird, Jonathan Paul** 1997, Associate Professor of Electrical Engineering; B.S.C., D.Phil., University of Sussex; Un ted Kingdom

- Birge, Edward A.** (1972), Associate Professor of Microbiology, Chair, Department of Microbiology, Codirector, Molecular Biosciences Biotechnology, B.A., Ph.D., University of Wisconsin, Madison
- Birk, James P.** 1973, Professor of Chemistry and Biochemistry, B.A., Saint John's University; Ph.D., Iowa State University
- Birtcher, Craig R.** 1987, Assistant Research Specialist Electrical Engineering, B.S.E., M.S., Arizona State University
- Bitner, Mary Jo** (1987), ATT Professor of Marketing, B.A., M.B.A., Ph.D., University of Washington
- Bitter, Gary G.** 1970, Professor of Curriculum and Instruction and Psychology in Education, B.S., Kansas State University, M.A., Kansas State Teachers College; Ph.D., University of Denver
- Bivona, Daniel** (1996), Associate Professor of English, Chair, Department of English, B.A., University of Connecticut, M.A., Northwestern University, Ph.D., Brown University
- Bjork, Robert E.** 1983, Professor of English, Director, Arizona Center for Medieval and Renaissance Studies; B.A., Pomona College; M.A., Ph.D., University of California, Los Angeles
- Blackham, Garth J.** (1962), Professor Emeritus of Counselor of Education; B.S., M.S., Utah State University; Ph.D., Cornell University
- Blackledge, Vernon O.** 1969, Professor Emeritus of Computer Science and Engineering, B.S.E.E., University of Illinois; M.S.E.E., University of Santa Clara; Ph.D., Arizona State University
- Blackman, William C.** (1988), Research Professional Emeritus, Center for Environmental Studies; B.S., M.S., University of Missouri, M.P.A., University of Southern California, D.P.A., University of Colorado
- Blackson, Thomas** 1995, Associate Professor of Philosophy; B.A., DePauw University; Ph.D., University of Massachusetts
- Blair, Sampson Lee** (1995), Associate Professor of Sociology; B.S., M.S., Virginia Polytechnic Institute, Ph.D., Pennsylvania State University
- Blakemore, Arthur E.** (1979), Professor of Economics, Chair, Department of Economics, B.S., M.A., University of Detroit, Ph.D., Southern Illinois University, Carbondale
- Blacklock, Cathy B.** 2000, Assistant Professor of Aerospace Studies, B.S., William Woods University, M.S., Lesley College
- Blancero, Donna** (1993), Assistant Professor of Management, B.S., College of Old Westbury, M.S., New York Institute of Technology, Ph.D., Cornell University
- Blanchard, Jay S.** (1988), Professor of Psychology in Education, M.S.T., Drake University, Ph.D., University of Georgia
- Blankenship, Robert E.** (1985), Professor of Chemistry and Biochemistry, B.S., Nebraska Wesleyan College, Ph.D., University of California, Berkeley
- Blasingame, James B. Jr.** 2000, Assistant Professor of English, B.A., University of Northern Iowa; M.Ed., Drake University, Ph.D., University of Kansas, Lawrence
- Blasko, Vincent J.** (1980), Associate Professor of Marketing, B.S., M.B.A., Arizona State University, Ph.D., University of Texas, Austin
- Bloom, Irene** (1997), Lecturer of Mathematics, B.A., M.S., University of Miami
- Blouin, Deborah K.** 1971, Associate Librarian, Hayden Reference Services, B.A., Cedar Crest College, M.L.S., State University of New York Albany
- Blount, Douglas J.** 1990, Associate Professor of Mathematics, B.S., M.S., Ph.D., University of Wisconsin, Madison
- Blumenfeld-Jones, Donald** 1990, Associate Professor of Curriculum and Instruction, B.A., Rutgers, The State University of New Jersey, M.F.A., Ed.D., University of North Carolina, Greensboro
- Boatsman, James R.** 1986, Peat Marwick Professor of Accountancy, B.S., M.S., Oklahoma State University, Ph.D., University of Texas Austin
- Boatsman, Joyce L.** (1986), Lecturer of Accountancy and Information Management; B.S., Oklahoma State University, M.Tax., Arizona State University
- Bodell, Leonard S.** 1992, Adjunct Professor of Anthropology; B.A., Hobart and William Smith Colleges, M.D., New York Upstate Medical Center
- Bodman, Denise** 1996, Lecturer of Family and Human Development; B.S., M.S., Arizona State University
- Bogardus, Clifton** (1992), Adjunct Professor of Biology, M.D., University of Rochester
- Bogart, Quentin J.** 1970, Professor Emeritus of Educational Leadership and Policy Studies, B.A., M.S., Fort Hays State College, Ph.D., University of Texas, Austin
- Boggs, Lohnie J.** (1959-65-1966), Professor Emeritus of General Business; B.S., M.S., Ph.D., Ohio State University
- Bohlander, George W.** (1977), Professor of Management; B.A., San Francisco State College, M.B.A., University of Southern California; Ph.D., University of California, Los Angeles
- Bohman, Herbert M.** 1964, Associate Professor of Legal and Ethical Studies, B.A., B.S., Drake University, M.B.A., J.D., Indiana University
- Bolin, Robert** (1997), Professor of Sociology, B.A., Ph.D., University of Colorado
- Bolton, Cynthia J.** (1997), Lecturer of Philosophy, B.G.S., University of Michigan, M.A., Ph.D., Michigan State University
- Bonanni, Domenico** (1987), Assistant Librarian, Hayden Reference Services, B.A., University of Alberta (Canada); B.A., Arizona State University; M.L.I.S., Dalhousie University (Canada)
- Booksh, Karl S.** 1996, Assistant Professor of Chemistry and Biochemistry, B.S., University of Alaska; Ph.D., University of Washington
- Booth, James R.** 1980, Professor of Finance, B.S., M.A., Ph.D., University of Alabama
- Boradkar, Prasad** 2000, Assistant Professor of Design, B.E., Maharashtra State University, Baroda, India; M.Des., Industrial Design Centre, Bombay, India; M.A., Ohio State University, Columbus
- Borgo, Philip E.** (1967), Professor Emeritus of Civil Engineering, B.S.C.E., University of Cincinnati; M.S., Ohio State University
- Borovansky, Vladimir R.** 1968, Librarian, Collection Development, M.L.S., Ph.D., Charles University, Prague, Czechoslovakia
- Bortner, Peg** (1979), Associate Professor of Justice Studies; Director, Center for Urban Inquiry, B.A., Edinboro State College; M.A., Ohio University; Ph.D., Washington University

- Bossen, Karen** 1999 Assistant Director of Professional Development Management and Training B.A. Washington State University
- Boswell, Jacquelyn** 1982 Professor Emerita of Music B.M.E. Murray State University; M.M.E. Louisiana State University; Ed.D., University of Illinois
- Boulin Johnson, Eleanor** 1957, Associate Professor of Family and Human Development, Director African American Studies, B.S., East Tennessee State University; M.S., Ph.D. Purdue University
- Bove, Frederick J.** 1998 Assistant Professor of Anthropology B.S. University of Notre Dame, M.A., Ph.D. University of California Los Angeles
- Bowers, Charles O.** 1945 Professor Emeritus of Music B.S., Southeast Missouri State College, M.M., D.M.A. University of Rochester
- Boyd, Brian** 1996 Associate Professor of Management Director, M.B.A. High Technology Program, B.S., Suffolk University, M.A. University of Connecticut Ph.D., University of Southern California
- Boyd, James H.** 1976 Professor of Accounting and Information Management, B.B.A., Texas Christian University; M.S. Northeastern University; Ph.D. University of Texas at Austin, CPA Texas
- Boyer, Don L.** 1988 Professor of Mechanical and Aerospace Engineering, B.S., Rensselaer Polytechnic Institute, Ph.D. Hopkins University
- Boyer, Jay M.** 1976 Professor of English B.A., St. Louis University; M.A., Ph.D., State University of New York, Buffalo
- Boyes, William J.** 1974 Professor of Economics, B.S. Idaho State University; Ph.D., Claremont Graduate School
- Boyle, Bernard M.** 1969 Professor Emeritus of Architecture, B.Arch., University of Sydney Australia, M.Arch., M.A., Ph.D., Yale University
- Brack, O M Jr.** 1973 Professor of English B.A., M.A. Baylor University; Ph.D., University of Texas, Austin
- Brada, Josef C.** 1978 Professor of Economics Director, International Business Studies B.S., M.A., Tufts University Ph.D., University of Minnesota, Twin Cities
- Bramlett-Solomon, Sharon** 1986, Associate Professor of Journalism and Telecommunication B.A., M.A. Memphis State University; Ph.D., Indiana University Bloomington
- Brandon, Tedd A.** 1981, Senior Research Professor in Bioengineering, Director, Animal Care Facility, B.S., University of California, Davis
- Brandt, Beverly K.** 1981, Professor of Design B.F.A., University of Michigan; M.A., Michigan State University; Ph.D. Boston University
- Brandt, Elizabeth A.** 1974 Professor of Anthropology B.A. Florida State University, M.A., Ph.D. Southern Methodist University
- Branstetter, Ellamae** (1967), Professor Emerita of Nursing, B.S. St. Louis University, MPH University of Minnesota, Twin Cities; Ph.D. University of Chicago
- Braun, J. Jay** 1973 Professor of Psychology B.A. University of Oregon, M.A., Ph.D., Ohio State University
- Braver, Sanford L.** 1970 Professor of Psychology B.A. Wayne State University; Ph.D. University of Michigan
- Bray, Sandra** 1985 Assistant Librarian, Technical Services Department B.A., Ottawa University; M.L.S., Indiana University Bloomington
- Brazel, Anthony J.** 1984 Professor of Geography B.A., M.A., Rutgers The State University of New Jersey; Ph.D. University of Michigan
- Breckenridge, Jack D.** 1972 Professor Emeritus of Art, B.S., University of Wisconsin-Madison; M.F.A. University of Iowa
- Brem, Sarah Katz** 1999 Assistant Professor of Psychology in Education A.B., University of Chicago; M.S., Ph.D. Northwestern University
- Bremner, Andrew** 1984 Professor of Mathematics B.A., M.A., University of Oxford United Kingdom; Ph.D., University of Cambridge United Kingdom
- Brenenstuhl, Daniel C.** 1985 Associate Professor of Management B.S., M.B.A. Ohio University; M.S., St. Bonaventure University; D.B.A., Indiana University
- Brener, Vicki** Faculty Associate in Nursing B.S.N. University of Arizona; M.S., University of Pennsylvania
- Brennan, Patrick** 1985 Professor of Law B.A., Yale University; M.A. University of Toronto; J.D., University of California Berkeley
- Briggs, John M.** 1993, Associate Professor of Printing B.S., M.S., Pittsburg State University; Ph.D. University of Arkansas
- Briley, Lane D.** 1981 Associate Research Professor of Chemistry and Biochemistry B.A., A.Z. State University
- Brillhart, Barbara** 1996, Associate Professor of Nursing, B.S.N., M.S.N. California State University Los Angeles; Ph.D., California State University
- Brink, Jean R.** 1974 Professor of English, B.A., Northwestern University; M.A., Harvard University; Ph.D. University of Wisconsin-Madison
- Britton, Daniel R.** 1980, Professor of Art B.F.A., M.F.A., University of Colorado
- Britton, David** 1987 Professor of Music B.M., North Texas State University
- Broadley, Hugh T.** 1969, Professor Emeritus of Art, A.B., Ph.D. College M.A., Yale University; Ph.D., New York University
- Brookey, Robert Alan** (2000) Assistant Professor of Communication B.A., M.A., University of Arkansas; Ph.D. University of Mississippi
- Brooks, Daniel G.** 1985, Associate Professor of Supply Chain Management Director, Executive M.B.A. Program; B.S., M.S., Cleveland State University; M.B.A., Ph.D., Jiana University, Bloomington
- Broome, Benjamin J.** 1999, Professor of Communication, B.A., University of Georgia; M.A., Ph.D. University of Kansas
- Brose, Marianna E.** 1963 Professor Emerita of English B.A., College of William and Mary; Diplôme Royal Académie of Dramatic Art United Kingdom; M.A., Arizona State University
- Brouwer, Daniel C.** 2001, Assistant Professor of Communication B.S. Ohio University; M.A., Ph.D., Northwestern University
- Brown, Alan R.** 1965 Associate Professor of Education B.A., M.A., California State University Los Angeles; Ph.D. University of Texas, Austin

- Brown, Brent W.** 1972, Associate Professor of Public Affairs, B.A. Brigham Young University, M.A. Arizona State University, Ph.D., University of Illinois
- Brown, Claudia** 1995, Assistant Professor of Art, B.A., M.A., M.Phil., Ph.D., University of Kansas
- Brown, David E.** 1993, Adjunct Professor of Biology, B.A., San Jose State College
- Brown, Duane** 1970, Professor Emeritus of Chemistry and Biochemistry, B.S. Brigham Young University, Ph.D., Cornell University
- Brown, Jean C.** 1991, Clinical Associate Professor of Speech and Hearing Science, B.S. University of Minnesota, M.A., University of Tennessee, M.S.W. Arizona State University
- Brown, Stephen W.** 1974, Professor of Marketing, Edward M. Carson Chair of Services Marketing, Director, Center for Services Marketing and Management, B.S., M.B.A., Ph.D. Arizona State University
- Brown, Theodore M.** 1963, Professor Emeritus of Chemistry and Biochemistry, B.S., M.S., University of Toledo, Ph.D., Iowa State University
- Brown, Theresa** 2010, Faculty Associate of Nursing, B.S.N., 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
- Brown, William A.** 1999, Assistant Professor of Real Estate Management and Tourism, B.S. Northern Illinois University, M.A., Ph.D. Claremont Graduate University
- Broyles, Susan M.** 1984, Librarian, B.A., Florida State University, M.S., Louisiana State University
- Bruch, Elizabeth** 2000, Legal Writing Instructor, B.A., Valparaiso University, J.D., University of Wisconsin
- Bruhn, Karen** 1998, Lecturer of the Barrett Honors College, Faculty Chair, Barrett Honors College, B.A., City University of New York, M.A., Ph.D., University of North Carolina, Chapel Hill
- Brune, Daniel C.** 1956, Associate Research Professor of Chemistry and Biochemistry, B.A. University of Kansas, Ph.D. Indiana University, Bloomington
- Bruner, May I.** 1961, Professor Emeritus of Nursing, B.S. University of Hawaii, Honolulu, M.S., University of Colorado
- Brunning, Dennis R.** 1984, Librarian, Collection Development, B.A. University of Iowa, M.A., M.S. University of Illinois
- Bruns, Gilbert H.** 1974, Professor Emeritus of Justice Studies, B.S., M.Ed., South Dakota State University, Ed.D. Arizona State University
- Brunson-Hadley, Judy I.** 1998, Adjunct Professor of Anthropology, B.A., M.A., Ph.D. Arizona State University
- Brush, Thomas A.** 1955, Assistant Professor of Educational Technology, B.A., M.S. State University of New York, Potsdam, Ph.D., Cornell University
- Bryan, Harvey** 1999, Associate Professor of Architecture, B.Arch., Arizona State University, M.Arch., M.Sc., Ph.D. University of California, Berkeley
- Bryan, Karen M.** 1991, Assistant Professor of Music, Coordinator of Undergraduate Academic Advisement, B.M., Georgia State University, Atlanta, M.A. University of Georgia, Atlanta, Ph.D. Indiana University, Bloomington
- Bryan, Tanis** 1999, Adjunct Professor of Speech and Hearing Science, B.S., M.A., Ph.D., Northwestern University
- Bryant, Edwin H.** 2000, Adjunct Professor of Biology, A.B., California State University, Ph.D., University of Kansas
- Bryant, Fred O.** 1990, Professor Emeritus of Exercise Science and Physical Education, B.S., Springfield College, M.S., University of Illinois, Ed.D., Arizona State University
- Brzyzy, Stephanie** 1995, Associate Professor of Social Work, B.S.W. Indiana University, Bloomington, M.S.W., University of Illinois, Urbana-Champaign, Ph.D. Ohio State University
- Buckingham, Willis J.** 1969, Professor Emeritus of English, A.B., Harvard University, M.S. University of Wisconsin, Madison, Ph.D. Indiana University
- Buley, Jerry L.** 1973, Associate Professor of Communication, B.A. University of Colorado, M.A., Michigan State University, Ph.D., Florida State University
- Burdette, Walter E.** 1956, Professor Emeritus of Technology, B.S., M.S., Kansas State College of Pittsburg, Ed.D. University of Missouri, Columbia
- Burdick, Richard K.** 1976, Professor of Statistics, B.S. University of Wyoming, M.S., Ph.D., Texas A&M University
- Burg, B. Richard** 1967, Professor of History, B.A., University of Colorado, M.A., Western State College of Colorado, Ph.D. University of Colorado
- Burgess, Paul L.** 1969, Professor of Economics, B.A., Ph.D., University of Colorado
- Burgoyne, Edward E.** 1951, Professor Emeritus of Chemistry and Biochemistry, B.S., Utah State University, M.S., Ph.D., University of Wisconsin, Madison
- Burk, Karl W.** 1949, Professor Emeritus of Technology, B.A., M.A. Arizona State University, Ed.D., Bradley University
- Burke, Janet M.** 1996, Assistant Administrative Professional, Barrett Honors College, Assistant Dean, Barrett Honors College, B.A., Wells College, M.A., Syracuse University, Ph.D., Arizona State University
- Burke, Rebecca J.** 1951, Librarian, Head, Government Documents Map Collection, B.A., San Jose State University; M.L.S. University of Arizona
- Burke, William F. Jr.** 1977, Professor of Microbiology, B.A., University of Dallas, M.S., North Texas State University, Ph.D., Arizona State University
- Burkett, Lee N.** 1974, Professor of Exercise Science and Physical Education, B.A., M.A., San Diego State University; Ph.D. Washington State University
- Burnette, Wendell** 2000, Assistant Professor of Architecture
- Burnham, Maralou E.** 1955, Assistant Research Scientist, Center for Advanced Research in Transportation, B.A., University of Southern California, M.A., Ph.D., Arizona State University
- Burns, Elizabeth K.** 1983, Professor of Geography, Director, Center for Advanced Transportation Research, B.A., Smith College, M.A., Ph.D. University of California, Berkeley
- Burrows, Veronica** 1986, Associate Professor of Chemical Engineering, B.S., Duquesne University, Ph.D., Princeton University
- Burstein, David** 1982, Professor of Physics and Astronomy, B.A., Wesleyan University, Ph.D., University of California, Santa Cruz

- Burstein, Karen** 1998, Lecturer of Curriculum and Instruction; B.A.E., M.A., Ph.D., Arizona State University
- Burt, Donald M.** (1974), Professor of Geological Sciences, A.B., Princeton University; A.M., Ph.D., Harvard University
- Burton, Dora** 1976, Assistant Professor of Russian, M.D., First Leningrad and Kazan Medical Institute, Russia; M.A., Ph.D., University of Washington
- Burton, Foster M.** (1969), Professor Emeritus of Construction, B.S.C.E., B.S., Carnegie Institute of Technology; M.B.A., New York University; Ph.D., University of Pittsburgh
- Buseck, Peter R.** 1963, Regents' Professor of Chemistry and Biochemistry and Geological Sciences, B.A., Antioch College; M.A., Ph.D., Columbia University
- Bush, Jeffrey E.** (1997), Assistant Professor of Music Education; B.M., M.M., Northern Illinois University, De Kalb, Ph.D., University of Arizona
- Bustoz, Joaquin** (1975), Professor of Mathematics, Director, SUMS Institute; B.A., M.A., Ph.D., Arizona State University
- Butler, Jay Q.** (1972), Associate Professor of Real Estate, Director, Arizona Real Estate Center; B.B.A., M.B.A., University of New Mexico, Ph.D., University of Washington
- Butler-Diaz, Jacqueline** 1997, Adjunct Professor of Anthropology, B.A., B.S., M.A., Arizona State University

C

- Cabianca, William A.** 1967, Professor Emeritus of Counselor Education, B.Ed., Gonzaga University, M.Ed., Ph.D., Washington State University
- Cady, Linell E.** 1983, Professor of Religious Studies, Interim Dean, College of Liberal Arts and Sciences, B.A., Newton College, M.T.S., Th.D., Harvard University
- Cafarella, Robert J.** 1991, Faculty Associate of Planning and Landscape Architecture, B.S., Northeastern University, M.U.P., New York University
- Cage, Gary** 1998, Faculty Associate of Microbiology; B.S., M.S., Arizona State University
- Caicco, Gregory** 2000, Assistant Professor of Architecture, B.Arch., Carleton University, Canada, M.Phil., University of Cambridge, United Kingdom; Ph.D., McGill University, Canada
- Calkins, Jerry M.** 1992, Adjunct Professor of Biotechnology, B.S.Ch.E., M.S.Ch.E., University of Wyoming; Ph.D., University of Maryland, College Park, M.D., University of Arizona
- Callarman, Thomas E.** 1950, Associate Professor of Management, Director, Manufacturing Institute; B.B.A., West Texas State University, M.B.A., Arizona State University; Ph.D., Purdue University
- Calleros, Charles R.** (1980), Professor of Law, B.A., University of California, Santa Cruz; J.D., University of California, Davis
- Cameron, Theresa** (1997), Associate Professor of Planning and Landscape Architecture; B.A., State University of New York, Buffalo; M.U.P., University of Michigan; D.Des., Harvard University
- Campbell, Ashley** 1990, Faculty Associate of Planning and Landscape Architecture, B.A., Trinity College; M.P.A., Arizona State University
- Campbell, Gary L.** 1997, Fine Arts Specialist, B.A., M.F.A., University of Southern California
- Campbell, Heather E.** 1971, Associate Professor of Public Affairs; B.A., University of California, San Diego; M.Phil., Ph.D., Carnegie Mellon University
- Campello, Murillo** 2000, Assistant Professor of Finance; B.S., Federal University of Rio de Janeiro (Brazil); M.S., Pontifical Catholic University (Brazil); M.S., Ph.D., University of Illinois, Urbana-Champaign
- Campos-Outcalt, Douglas** (1998), Adjunct Professor of Anthropology; B.S., M.P.A., Arizona State University; M.D., University of Arizona
- Canary, Daniel J.** 1999, Professor of Communication, B.A., California State University, Fullerton, M.A., California State University, Fullerton, M.A., Ph.D., University of Southern California
- Candan, Kasim Selcuk** (1997), Assistant Professor of Computer Science and Engineering, B.S., Bilkent University, Turkey; Ph.D., University of Maryland, College Park
- Candela, Giuseppe** 1995, Assistant Professor of Italian, M.A., Ph.D., University of Wisconsin
- Candelaria, Cordelia C.** (1992), Professor of English and Chicana and Chicano Studies; B.A., Fort Lewis College; M.A., Ph.D., University of Notre Dame
- Canovas, Frédéric** 1999, Assistant Professor of French; Diplôme d'Etudes Universitaires Générales de Lettres Modernes, Maîtrise de Lettres Modernes, Diplôme d'Etudes Approfondies de Lettres Modernes, Lyon University, France; Ph.D., University of Oregon
- Canright, James E.** 1964, Professor Emeritus of Plant Biology, B.A., Miami University, A.M., Ph.D., Harvard University
- Capco, David G.** (1984), Professor of Biology, B.S., Edinboro State College, M.S., University of Houston; Ph.D., University of Texas, Austin
- Capone, Jeffrey M.** 1997, Assistant Professor of Electrical Engineering, B.S., University of Vermont; M.S., Ph.D., Northeastern University
- Cardy, Robert L.** 1988, Professor of Management, B.S., Central Michigan University; Ph.D., Virginia Polytechnic Institute and State University
- Carlsen, Paul A.** 1978, Professor Emeritus of Technology, B.A.E., M.N.S., Ed.D., Arizona State University
- Carlson, A. Cheree** (1988), Professor of Communication, B.A., M.A., Colorado State University; Ph.D., University of Southern California
- Carlson, Ingeborg L.** (1964), Professor Emeritus of German; Abitur, Heidelberg School, Germany; Vorsemaster and cand.phil., University of Heidelberg, Germany; Dr.phil., University of Erlangen-Nürnberg, Germany
- Carlson, Marilyn P.** 1995, Associate Professor of Mathematics; B.S., Central Missouri State University; M.S., Ph.D., University of Kansas
- Carlson, Ron** 1986, Professor of English; B.A., M.A., University of Utah
- Carlyle, Matthew W.** (1977), Assistant Professor of Industrial Engineering, B.S., Georgia Institute of Technology; Ph.D., Stanford University
- Carney, James D.** 1967, Professor Emeritus of Philosophy, B.A. equivalent, Northern Baptist Theological Seminary; M.A., Roosevelt University; Ph.D., University of Nebraska, Lincoln

- Carpenter, Ellen D.** 1988. Associate Professor of Music, B.A., Denison University; M.A., Kent State University; Ph.D., University of Pennsylvania
- Carr, Christopher** (1985). Professor of Anthropology, B.A., University of Illinois; M.A., Ph.D., University of Michigan
- Carrigan, Alice** (1999). Faculty Associate of Nursing, B.S.N., University of Michigan; M.S., Arizona State University
- Carrington, Jane M.** 1995. Faculty Associate of Nursing, B.S.N., Arizona State University; M.S.N., University of Pennsylvania
- Carroll, Kevin K.** 1975. Associate Professor of History, B.A., Canisius College; M.A., Ph.D., Harvard University
- Carroll, Steven** 1987. Associate Professor of Biology, B.S., Tulane University; M.S., Oregon State University; Ph.D., University of Oregon
- Carter, Joseph R.** 1991. Professor of Supply Chain Management, Chair, Department of Supply Chain Management, National Association of Purchasing Management Professor, B.S., M.B.A., Northeastern University; Ph.D., Boston University
- Carter, Phillip L.** 1995. Professor of Supply Chain Management, Harold E. Fearon Chair, Purchasing Management, Director, Center for Advanced Purchasing Studies, B.S.E.E., Rose-Hulman Institute of Technology; M.B.A., D.B.A., Indiana University
- Carver, George L.** 1965. Professor Emeritus of Classical Languages, B.A., M.A., University of Texas, Austin; S.T.B., Saint Mary's Seminary; Ph.D., Saint Louis University
- Casanova, Ursula** (1987). Associate Professor of Educational Leadership and Policy Studies, B.A., Hunter College; M.S., State University of New York, Brockport; Ph.D., Arizona State University
- Casavantes, Michael D.** 1990. Lecturer of Journalism and Telecommunication; B.A., University of Texas, El Paso; M.A., New Mexico State University
- Case, James L.** (1969). Professor of Speech and Hearing Science, Director, Clinical Services; B.S., Weber State College; M.S., Ph.D., University of Utah
- Casey, Katherine Marie** 2000. Faculty Associate of Nursing, B.S., University of Wisconsin; M.S., Arizona State University
- Cassidy, Virginia L.** 1988. Librarian Emerita, A.B., Oberlin College; M.L.S., Pratt Institute
- Castaneda, Eddie** 1990. Associate Professor of Psychology, B.S., M.A., University of Texas, El Paso; Ph.D., University of Michigan
- Castle, Gregory** (1997). Associate Professor of English, B.A., California State University, Fresno; M.A., Ph.D., University of California, Los Angeles
- Castro, Felipe G.** 1991. Professor of Psychology, B.A., University of California, Santa Barbara; M.S.W., University of California, Los Angeles; Ph.D., University of Washington
- Caudle, M. Tyler** 1997. Assistant Professor of Chemistry and Biochemistry, B.S., University of North Carolina, Charlotte; Ph.D., Duke University
- Cavalliere, William A.** (1946). Professor Emeritus of Technology, B.A., M.A., Arizona State University
- Cavanaugh, Carolyn J.** 1996. Academic Associate of Psychology, A.B., Duke University; Ph.D., Arizona State University
- Cavanaugh, Ellen May** 1995. Faculty Associate of Nursing, B.S.N., University of Phoenix; M.S., University of Arizona
- Cavender, Gray** (1977). Professor of Justice Studies, B.S., University of Tennessee; M.S., Middle Tennessee State University; Ph.D., Florida State University; J.D., University of Tennessee; Knoxville
- Cavinato, Joseph L.** 2000. Adjunct Professor of Supply Chain Management, B.S., B.A., M.B.A., American University; Ph.D., Pennsylvania State University
- Cayer, N. Joseph** 1980. Professor of Public Affairs, B.A., M.P.A., University of Colorado; Ph.D., University of Massachusetts, Amherst
- Cervený, Randall S.** 1986. Professor of Geography, B.S., M.A., Ph.D., University of Nebraska, Lincoln
- Cesarotti, Evelyn I.** 1992. Associate Professor of Nursing, B.S.N., University of West Florida; M.S., Ph.D., University of Arizona
- Cesta, John R.** (1975). Associate Professor of Finance, B.S., Capital University; M.B.A., Ph.D., Florida State University
- Cevette, Michael J.** 1989. Adjunct Professor of Speech and Hearing Science, B.A., University of Nevada, Las Vegas; M.S., Utah State University; Ph.D., University of Utah
- Chade, Hector A.** 1997. Assistant Professor of Economics, Licenciado en Economía, National University of Cuyo, Argentina; M.S., Ph.D., University of Illinois, Urbana-Champaign
- Chakrabarti, Chaitali** (1970). Associate Professor of Electrical Engineering, B.Tech., Indian Institute of Technology (India); M.S., Ph.D., University of Maryland, College Park
- Chamberland, Bertrand L.** 1997. Adjunct Professor of Chemistry and Biochemistry, B.A., Saint Anselm's College; Ph.D., University of Pennsylvania
- Chamberlin, Ralph V.** 1986. Professor of Physics and Astronomy; B.S., University of Utah; M.S., Ph.D., University of California, Los Angeles
- Chambers, Anthony** 1998. Professor of Japanese, B.A., Pomona College; M.A., Stanford University; Ph.D., University of Michigan
- Chance, John K.** 1987. Professor of Anthropology; Chair, Department of Anthropology, A.B., University of Pennsylvania; A.M., Ph.D., University of Illinois
- Chancy, Myriam** 1997. Associate Professor of English; B.A., University of Manitoba, Canada; M.A., Dalhousie University, Canada; Ph.D., University of Iowa
- Chandler, Douglas E.** (1981). Professor of Biology, B.S., University of Rochester, M.A., Johns Hopkins University; Ph.D., University of California, San Francisco
- Chang, Yung** 1996. Assistant Professor of Microbiology, M.D., Beijing Medical College, China; Ph.D., University of Iowa
- Chapman, Jeffrey** (1999). Professor of Public Affairs, Director, School of Public Affairs, A.B., Occidental College; M.A., Ph.D., University of California, Berkeley
- Chapsky, Lars** (1998). Assistant Professor of Engineering, B.A., Ph.D., University of California, Berkeley
- Chartier, George M.** (1971). Professor Emeritus of Psychology, B.S., University of Illinois; M.A., Ph.D., University of Oregon
- Chase, Marcelle P.** 1983. Law Librarian Emerita, M.L.S., Ball State University; J.D., University of Brussels (Belgium)

- Chasey, Allan D.** (1995), Assistant Professor of Construction B.S., Arizona State University; M.S., Air Force Institute of Technology; Ph.D., Virginia Polytechnic Institute and State University
- Chasey, Eugene F.** 1965, Professor Emeritus of Education, B.S., Northwestern State College; M.A., Colorado State College; Ed.D. University of Wyoming
- Chassin, Laurie** (1979), Professor of Psychology B.A., Brown University; M.S., Ph.D., Columbia University
- Chattopadhyay, Aditi** (1990), Professor of Mechanical and Aerospace Engineering, M.S., Ph.D. Georgia Institute of Technology
- Chaudhuri, Joyotpaul** (1985), Professor of Political Science, B.A., Central State University, Oklahoma; M.A., Ph.D. University of Oklahoma
- Chawla, Nikhilesh** (2000), Assistant Professor of Materials Engineering, B.S., New Mexico Institute of Mining and Technology; M.S., University of Tennessee Knoxville; Ph.D., University of Michigan Ann Arbor
- Chen, Kang Ping** (1991), Associate Professor of Engineering, B.S., Peking University (China); Ph.D., University of Minnesota, Twin Cities
- Chen, Nai-Kuang** 1998, Assistant Professor of Computer Information Systems, B.B.A., Soochow University (Taiwan); M.S., George Washington University; Ph.D., University of Connecticut
- Chen, Stanley S.** (1967), Professor Emeritus of Engineering; Diploma, Taipei Institute of Technology (Taiwan); M.S., Ohio University; Ph.D., University of Wisconsin, Madison
- Chenoweth, Timothy** (1996), Assistant Professor of Computer Information Systems; B.S., U.S. Coast Guard Academy; M.B.A., Ph.D., Washington State University
- Childress, Nancy** (1991), Associate Professor of Mathematics; B.S., B.S.Ed., M.S., Ph.D., Ohio State University
- Chilton, Leslie Anne** (1998), Academic Associate, Division of Undergraduate Academic Services; Coordinator, Student Success Curriculum; B.A., M.A., Ph.D., Arizona State University
- Chlistowa, Xenia** 1980, Professor Emeritus of Dance
- Choi, Hyaewool** 1998, Assistant Professor of Korean; B.A., M.A., Yonsei University (Korea); Ph.D., State University of New York, Buffalo
- Choi, Jaehoon** (1989), Assistant Research Engineer, Telecommunication Research Center B.S., Han Yang University (South Korea); M.S., Ph.D., Ohio State University
- Choi, Kwan-yiu** (1988), Assistant Research Scientist, Center for Solid State Electronics Research B.S., The Chinese University of Hong Kong (China); M.S., Rutgers, The State University of New Jersey; Ph.D., Arizona State University
- Choi, Thomas** (1998), Associate Professor of Management and Supply Chain Management; B.A., University of California, Berkeley; Ph.D., University of Michigan
- Chou, Ju Hsi** 1975, Professor Emeritus of Art; B.A., University of Kentucky; M.A., Ph.D., Princeton University
- Christensen, George** 1975, Professor Emeritus of Architecture; B.Arch., Illinois Institute of Technology
- Christensen, Philip R.** 1987, Korrick Professor of Geological Sciences, B.S., M.S., Ph.D., University of California, Los Angeles
- Christian, Charles W.** (1955), Associate Professor of Accountancy and Information Management, B.B.A., University of Georgia; J.D., University of Virginia; Ph.D., University of Georgia
- Christian, D.J.** (2000), Lecturer of Accountancy and Information Management; B.A., Notre Dame College; M.S., Ph.D., Utah State
- Christie, James F.** 1988, Professor of Curriculum and Instruction, B.A., University of California, Berkeley; M.A., Syracuse University; Ph.D., Claremont Graduate School
- Christine, Carol J.** (1998), Clinical Assistant Professor of Curriculum and Instruction, B.A., M.A., Arizona State University; Ph.D., University of Arizona
- Christine, Ray O.** (1958), Professor Emeritus of Curriculum and Instruction, B.A., M.A., Northern Colorado University; Ed.D., Arizona State University
- Christopher, F. Scott** 1986, Professor of Family and Human Development, B.S., M.S., University of Nebraska; Ph.D., Oregon State University
- Chubrich, Robert E.** 1971, Professor Emeritus of Speech and Hearing Science; B.A., Grinnell College; M.A., Indiana University, Bloomington; Ph.D., State University of New York, Buffalo
- Church, Kathleen K.** 1969, Professor of Biology, Vice Provost, Office of the Senior Vice President and Provost; B.S., M.A., University of Utah; Ph.D., University of California, Berkeley
- Cialdini, Robert B.** (1971), Regents Professor of Psychology, B.S., University of Wisconsin, Milwaukee; M.A., Ph.D., University of North Carolina, Chapel Hill
- Claiborn, Charles D.** (1990), Professor of Counseling Psychology and Counselor Education, A.B., University of Missouri; M.A., Ohio State University; Ph.D., University of Missouri
- Clark, Geoffrey A.** 1971, Professor of Anthropology; B.A., M.A., University of Arizona; Ph.D., University of Chicago
- Clark, James C.** 1975, Associate Research Professional of Chemistry and Biochemistry
- Clark, Robert C.** 1981, Professor Emeritus of Music, B.Mus., Central Methodist College; S.M.M., Union Theological Seminary
- Clark, William Dennis** (1976), Associate Professor of Plant Biology, B.A., Sacramento State College; Ph.D., University of Texas, Austin
- Clarke-Steffen, Laura** (1994), Faculty Associate of Nursing, B.S.N., M.S., University of Missouri, Columbia; Ph.D., Oregon Health Sciences University
- Clay, J. Eugene** (1993), Associate Professor of Religious Studies; A.B., A.M., Ph.D., University of Chicago
- Clewlow, Paul J.** 1988, Faculty Research Associate, Cancer Research Institute, B.S., University of Leicester (United Kingdom); Ph.D., University College (United Kingdom)
- Clinton, Steven R.** (1999), Assistant Professor of Supply Chain Management, B.A., University of Wisconsin, Madison; M.B.A., University of South Carolina; M.S., University of Wisconsin, Milwaukee; Ph.D., Michigan State University
- Clothier, Ronald R.** 1955, Professor Emeritus of Biology; A.B., Fresno State College; M.A., Montana State University; Ph.D., University of New Mexico
- Cluff, Gordon L.** 1963, Professor Emeritus of Speech and Hearing Science, B.A., Arizona State University; M.S., Ph.D., Southern Illinois University

- Cobas, José A.** (1975), Professor of Sociology, B.A., Maryville College, M.A., University of Tennessee, Knoxville; Ph.D., University of Texas, Austin
- Cocchiarella, Martha** 1998, Lecturer of Curriculum and Instruction, B.A., M.Ed., Ph.D., Arizona State University
- Cochran, Douglas** (1989), Associate Professor of Electrical Engineering, M.A., University of California, San Diego; Ph.D., Harvard University
- Cochran, Jeffery K.** (1984), Professor of Industrial Engineering, Associate Chair, Department of Industrial Engineering, B.S.E., M.S.N.E., M.S.I.E., Ph.D., Purdue University
- Cochran, John A.** 1962, Professor Emeritus of Economics, A.B., Drake University, A.M., Ph.D., Harvard University
- Cocke, Robert D.** (1983), Associate Professor of Art; B.F.A., University of Arizona, M.A., M.F.A., University of Iowa
- Codell, Julie F.** 199, Professor of Art, Director, School of Art, A.B., Vassar College, M.A., University of Michigan, M.A., Ph.D., Indiana University, Bloomington
- Coghlan, William A.** 1990, Adjunct Associate Professor of Chemical Engineering; B.S., Montana College of Mineral Science and Technology, M.S., Ph.D., Stanford University
- Cogley, Timothy** (1999), Associate Professor of Economics, A.B., Ph.D., University of California, Berkeley
- Cohen, Herbert G.** (1978), Associate Professor of Curriculum and Instruction, B.S., Muhlenberg College, M.A., Hofstra University, Ph.D., University of Iowa
- Cohen, Stewart M.** (1989), Professor of Philosophy; B.A., Wayne State University, M.A., University of California, Santa Barbara; Ph.D., University of Arizona
- Cohn, Sanford J.** (1979), Associate Professor of Curriculum and Instruction, B.A., M.Ed., Ph.D., Johns Hopkins University
- Cokar-Molani, Tanseela** 1997, Faculty Associate of Design; M.Ed., University of Calgary, Canada
- Colby, Arthur L.** (1965), Professor Emeritus of English, B.A., University of Massachusetts, Amherst, M.A., Ph.D., University of North Carolina, Chapel Hill
- Cole, V. Scott** (1995), Faculty Associate of Construction; B.S., Arizona State University, M.S., Central Michigan University
- Coles, Jeffrey L.** 1994, Professor of Finance; B.A., Pomona College; Ph.D., Stanford University
- Colina, Sonia** (1997), Assistant Professor of Spanish, B.A., University of Compostela, Spain; M.A., Southern Illinois University, Carbondale; M.A., State University of New York, Binghamton; Ph.D., University of Illinois, Urbana-Champaign
- Collins, Daniel L.** 1989, Associate Professor of Art, Interim Director, Institute for Studies in the Arts, B.A., University of California, Davis; M.A., Stanford University; M.F.A., University of California, Los Angeles
- Collins, James P.** (1975), Professor of Biology, Chair, Department of Biology, B.S., Manhattan College, M.S., Ph.D., University of Michigan
- Collofello, James S.** 1979, Professor of Computer Science and Engineering; B.S., M.S., Northern Illinois University; Ph.D., Northwestern University
- Comeaux, Malcolm L.** 1969, Professor of Geography, B.A., University of Southwestern Louisiana, M.A., Southern Illinois University, Carbondale; Ph.D., Louisiana State University, Baton Rouge
- Comfort, Joseph R.** 1981, Professor of Physics and Astronomy, A.B., Ripon College; M.S., Ph.D., Yale University
- Comprix, Joseph** 2000, Assistant Professor of Accountancy and Information Management; B.S., Ohio State University; Ph.D., University of Illinois, Champaign-Urbana
- Congdon, Justin D.** (2000), Adjunct Professor of Biology; B.S., M.S., California State Polytechnic University; Ph.D., Arizona State University
- Conrad, Cheryl D.** 1997, Assistant Professor of Psychology, B.S., University of California, Irvine; Ph.D., University of Illinois, Urbana-Champaign
- Conrow, Jane A.** 1968, Associate Dean, Library Services, B.A., M.L.S., Indiana University, Bloomington
- Cook, Edward A.** 1985, Associate Professor of Planning and Landscape Architecture; B.S.L.A., Washington State University, M.L.A., Utah State University
- Cook, Jeffrey** (1961), Regents' Professor of Architecture; B.Arch., University of Manitoba, Canada; M.Arch., Pratt Institute
- Cook, Paul** 1987, Senior Lecturer of English, B.A., Northern Arizona University; M.A., Arizona State University; Ph.D., University of Utah
- Cook, Phil A.** 1963, Professor Emeritus of Education; B.A., Southwestern Oklahoma State College, M.A., Colorado State College, Ed.D., University of Kansas
- Cook, Suzanne M.** 1974, Associate Professor of Management; B.B.A., M.B.A., D.B.A., Texas Tech University
- Cooper, Allene** 1997, Senior Lecturer of English; B.A., M.A., University of Utah; Ph.D., Arizona State University
- Coor, Lattie F.** (1990), Professor of Public Affairs; President of the University; A.B., Northern Arizona University, M.A., Ph.D., Washington University
- Corder, Brice W.** (1971), Professor Emeritus of Exercise Science and Physical Education; B.A., Lynchburg College, M.Ed., Ed.D., Temple University
- Corey, Constance H.** 1973, Librarian Emeritus, B.A., Denison University, M.L.S., University of Arizona, M.B.A., Arizona State University
- Corey, Frederick C.** 1987, Associate Professor of Communication; Associate Dean, College of Public Programs, B.S., Central Michigan University, M.S., Southern Illinois University, Carbondale; Ph.D., University of Arizona
- Corman, Steven R.** (1987), Associate Professor of Communication, B.S., Illinois State University; M.A., Ph.D., University of Illinois
- Corse, Taylor** 1989, Associate Professor of English, B.A., Florida State University; M.A., University of Michigan; Ph.D., University of Florida
- Cosand, Walter A.** (1976), Professor of Music, B.M., M.M., University of Rochester
- Cota-Cárdenas, Margarita** (1981), Associate Professor of Spanish, B.A., California State University, Turlock; M.A., University of California, Davis; Ph.D., University of Arizona

- Couch, Sanford C.** 1962. Professor of Russian, B.A., M.A., Ph.D. University of Wisconsin, Madison
- Coudert, Allison** 1989. Professor of Religious Studies, B.A. Vassar College; Ph.D., University of London United Kingdom
- Coudroglou, Alik** 1971. Professor of Social Work, B.A. College of Saint Benedict, M.S.W. University of Minnesota, with Certificate S.W. Columbia University
- Coursen, Jerry** (1987). Adjunct Associate Professor of Biotechnology, B.S., M.S., Arizona State University, Ph.D., University of Arizona
- Cowgill, George L.** 1990. Professor of Anthropology, A.M., University of Chicago Ph.D., Harvard University
- Cowley, Anne P.** 1983. Professor of Physics and Astronomy, B.A., Wellesley College, M.S. Ph.D. University of Michigan
- Cowley, John M.** 1969. Regents and Gavin Professor Emeritus of Physics and Astronomy, B.S., M.S., D.Sc., University of Adelaide, Australia. Ph.D., Massachusetts Institute of Technology
- Cox, Ronnie R.** 1987. Clinical Associate Professor of African American Studies and Military Science, B.S. Fayetteville University; M.S., University of North Carolina. Ph.D., University of Tennessee
- Craft, John E.** 1973. Professor of Journalism and Telecommunication, B.F.A., M.A., Ph.D. Ohio University
- Crafts-Brandner, Steven** 1996. Adjunct Faculty of Plant Biology, B.S., Western Kentucky University; M.S., Ph.D., University of Illinois
- Crawford, John E.** 1980. Associate Professor of Communication, B.A. Nebraska Wesleyan University, M.A., Sacramento State College, Ph.D., University of Southern California
- Crawford, W. Scott, Lt. Col.** 2001. Professor of Military Science Chair, Department of Military Science, M.S., Stanford University
- Creath, J. Richard** 1974. Professor of Philosophy, B.A. Knox College, M.A. Philosophy, M.A. History and Philosophy of Science, Ph.D., University of Pittsburgh
- Creighton, Judith M.** 1961. Professor Emeritus of Family and Human Development, B.S., University of Arizona, M.S., M.C. Arizona State University, Ph.D., University of Arizona
- Crewe, Katherine** 1998. Assistant Professor of Planning and Landscape Architecture, B.A., Rhodes University, South Africa, M.L.A., University of California Berkeley, Ph.D., University of Massachusetts, Amherst
- Crittenden, W. Jackson** 1988. Associate Professor of Political Science, B.A. Tufts University, M.Ed., Harvard University, D.Ph., University of Oxford, United Kingdom
- Croft, Lee B.** (1973). Professor of Russian, B.S. Arizona State University, M.A., University of Arizona, Ph.D., Cornell University
- Cronin, John R.** 1966. Professor Emeritus of Chemistry and Biochemistry, B.A., College of Western, Ph.D., University of Colorado
- Cronkite, Walter** 1986. Professor of Journalism and Telecommunication
- Cross, James** 1986. Adjunct Professor of Art, B.A., University of California Los Angeles
- Crouch, Peter E.** 1985. Professor of Electrical Engineering; Dean, College of Engineering and Applied Sciences; B.S., M.S., University of Warwick (United Kingdom), Ph.D., Harvard University
- Crowder, Troy F.** 1971. Professor Emeritus of Journalism and Telecommunication, B.A., University of South Dakota, M.A., University of Iowa
- Crowe, Barbara J.** 1981. Professor of Music; Director, Music Therapy, B.M., M.M., Michigan State University
- Crowley, Sharon** 1998. Professor of English, B.A., M.A. University of Nebraska, Lincoln Ph.D., University of Northern Colorado
- Crozier, Peter A.** 1987. Senior Research Scientist, Center for Social State Science, B.Sc., Ph.D., University of Glasgow, United Kingdom
- Culbertson, Robert J.** 1991. Associate Professor of Physics and Astronomy, B.S., Kent State University, Ph.D., Pennsylvania State University, University Park
- Cummings, Lawrence T.** (1971). Professor Emeritus of Counselor Education, B.A., M.A., Arizona State University, Ed.D., University of California Los Angeles
- Curran, Mark J.** 1968. Professor of Spanish and Portuguese, B.S., Rockhurst College, Ph.D., Saint Louis University
- Cutler, Lorraine M.** 1991. Associate Professor of Design; Associate Dean, College of Architecture and Environmental Design, B.A., B.F.A., Arizona State University, M.A., University of Phoenix
- Czygrinow, Andrzej M.** (1999). Assistant Professor of Mathematics, M.S., Adam Mickiewicz University (Poland), M.S., Ph.D., Emory University

D

- D'Andrea, Frank L.** 1972. Professor Emeritus of Music, B.A., M.A., Ed.D., Columbia University
- D'Angelo, Frank J.** 1970. Professor Emeritus of English, B.S., Louisiana University, New Orleans, M.A., Tulane University, Ph.D., University of Nebraska, Lincoln
- Daane, Calvin J.** 1963. Professor Emeritus of Counselor Education, B.S., University of Wisconsin, Madison, M.A., Columbia University, Ed.D., Indiana University, Bloomington
- Dagger, Richard K.** 1976. Professor of Political Science, B.A., University of Missouri, St. Louis, Ph.D., University of Minnesota, Twin Cities
- Dahl, Jeannine** 1989. Professor Emeritus of Nursing, B.S., University of Kansas, M.A., Ed.D., University of Northern Colorado
- Dahl, Richard C.** 1966. Professor Emeritus of Law, B.A., B.L.S., University of California, Berkeley, J.D., Catholic University of America
- Daley, J. Michael** 1978. Professor of Social Work, B.S., Spring Hill College; M.S.W., Saint Louis University, M.S., University of Pittsburgh, D.S.W., Tulane University
- Dalgleish, Donald D.** 1962. Professor of Military Science, B.A., Carleton College, M.A., Columbia University, Ph.D., University of Colorado
- Dallyn, Selwyn L.** 1983. Clinical Professor of Law, B.A., Graceland College, Ed.D., University of Iowa

- Dalton, Kevin Andrew** (1994), Senior Lecturer of the Barrett Honors College; B.A., Columbia University, M.Phil., University of Oxford (United Kingdom), Ph.D., University of Virginia
- Damrel, David W.** (2000), Assistant Professor of Religious Studies; B.A., B.J., M.A., University of Texas, Austin, Ph.D., Drake University
- Daniel, Norman E.** (1970), Professor Emeritus of Supply Chain Management; B.S., M.S., University of Tennessee, Knoxville, Ph.D., Indiana University
- Dannenfeldt, Karl H.** (1956), Professor Emeritus of History; Dean Emeritus, College of Liberal Arts and Sciences; A.B., Valparaiso University, M.A., Indiana University, Ph.D., University of Chicago
- Dantico, Marilyn** (1981), Associate Professor of Political Science; B.A., University of Illinois, M.A., Ph.D., Florida State University
- Darst, Paul W.** (1976), Professor of Exercise Science and Physical Education; B.S., M.S., University of Akron; Ph.D., Ohio State University
- Dasgupta, Partha** (1991), Associate Professor of Computer Science and Engineering, B.Tech., M.Tech., Indian Institute of Technology (India); Ph.D., State University of New York, Stony Brook
- Datta, Manjira** (1995), Assistant Professor of Economics; B.A., M.A., Jadavpur University (India), Ph.D., Cornell University
- Dauber, M. Robert** (1990), Clinical Professor of Law; B.A., University of California, Berkeley, J.D., Arizona State University
- Dauten, Joel J.** (1960), Professor Emeritus of Finance; B.S., M.S., Washington University; Ph.D., University of Iowa
- Davey, William G.** (1976), Associate Professor of Communication; Director, International Programs; B.A., Pennsylvania State University, M.A., Columbia University; Ph.D., Indiana University Bloomington
- David, Julia Smith** (1995), Assistant Professor of Accountancy and Information Management; B.A., M.B.A., Ph.D., Michigan State University
- Davidson, Elizabeth T.** (1986), Research Professor of Biology; B.S., Mount Union College, M.S., Ph.D., Ohio State University
- Davidson, Joseph K.** (1973), Professor of Engineering; B.M.E., M.Sc., Ph.D., Ohio State University
- Davila, Eduardo** (1998), Lecturer of Management; B.S., University of Illinois, Urbana-Champaign, M.B.A., Arizona State University
- Davis, Frank S.** (1978), Associate Research Professional of Chemistry and Biochemistry; B.S.E., Arizona State University
- Davis, George R.** (1980), Professor Emeritus of Electrical Engineering; B.S.E.E., M.S., University of Illinois, Ph.D., University of Arizona
- Davis, Joseph M.** (1975), Associate Professor of Real Estate; B.S., University of South Carolina, M.B.A., Texas A&M University, Ph.D., University of Georgia
- Davis, Keith** (1958), Professor Emeritus of Management; B.B.A., M.B.A., University of Texas, Ph.D., Ohio State University
- Davis, Mary C.** (1994), Associate Professor of Psychology; B.S., University of Idaho, M.S., Ph.D., University of Pittsburgh
- Davis, Olga Idriss** (1998), Assistant Professor of Communication; B.S., University of Redlands, M.A., Ph.D., University of Nebraska, Lincoln
- Davis, Robert E.** (1959), Professor Emeritus of Communication; B.A., M.A., Ph.D., University of Illinois
- Davis, Thomas J.** (1996), Professor of History; A.B., Fordham University, M.A., Ph.D., Columbia University; J.D., State University of New York, Buffalo
- Day, Thomas** (1995), Associate Professor of Plant Biology; B.S., Colorado State University; M.S., University of Idaho, Ph.D., Colorado State University
- de Jesús, Melinda L.** (1999), Assistant Professor of Asian Pacific American Studies; B.A., Lehigh University; M.A., University of York (United Kingdom), Ph.D., University of California, Santa Cruz
- de los Santos, Alfredo** (1999), Research Professor, Division of Educational Leadership and Policy Studies; B.A., M.L.S., Ph.D., University of Texas, Austin
- de Marneffe, Peter** (1989), Associate Professor of Philosophy; B.A., University of Massachusetts, Amherst, Ph.D., Harvard University
- Deach, Dorothy F.** (1967), Professor Emeritus of Physical Education; B.S., M.S., University of Illinois; Ph.D., University of Michigan
- Deal, Clarice** (1996), Instructor of Portuguese; B.A., Organização Santa Marensense de Educação e Cultura, Sao Paulo (Brazil), M.Ed., Arizona State University
- Dean, Arthur G.** (1971), Professor Emeritus of Industrial Engineering; B.A., M.S., Texas Tech University, Ph.D., Texas A&M University
- Debenport, Sylvia** (1978), Professor Emeritus of Music; B.M.E., B.M., M.M., Indiana University, Bloomington
- DeFato, Rosalinda** (1970), Librarian, Hayden Reference Services; B.A., Saint John's University, M.L.S., University of California, Los Angeles
- DeGraftenreid, Don** (1990), Senior Research Administrator, Center for Advanced Research in Transportation, Manager, Technical Transportation Program; B.S.C.E., New Mexico State University
- DeGraw, Bette F.** (1986), Administrative Professional, College of Extended Education, Associate Professor of Public Affairs, Dean, College of Extended Education, Director, Downtown Center; B.A., Thiel College; M.S.W., Rutgers, The State University of New Jersey, D.P.A., Arizona State University
- DeLamotte, Eugenia** (1997), Associate Professor of English; A.B., Duke University, B.A., M.A., University of Oxford (United Kingdom), M.A., Ph.D., Harvard University
- DeLibero, Joseph** (1996), Lecturer of Computer Science and Engineering; B.S., Iona College, M.S., Purdue University
- Dellheim, Charles J.** (1980), Professor of History, Director, Interdisciplinary Humanities Program; B.A., State University of New York, Binghamton, M.A., Ph.D., Yale University
- DeLorenzo, Lisa C.** (1998), Assistant Professor of Public Affairs; B.A., M.A.U.A., Saint Louis University, M.A., M.P.P.A., Ph.D., University of Missouri, St. Louis
- DeMars, James R.** (1981), Professor of Music; B.A., Macalester College, M.A., Ph.D., University of Minnesota, Twin Cities
- DeMassa, Thomas A.** (1966), Professor Emeritus of Electrical Engineering; B.S.E.E., M.S.E.E., Ph.D., University of Michigan

- Demeke, Howard J.** 1962, Professor Emeritus of Education; A.B., San Francisco State College; M.S., Ed.D., University of Southern California
- DeNardo, Dale** 1998, Assistant Professor of Biology; B.S., D.V.M., University of California, Davis; Ph.D., University of California, Berkeley
- Denhardt, Janet Vinzant** 1995, Professor of Public Affairs, B.A., Washington State University; M.P.A., D.P.A., University of Southern California
- Denhardt, Robert** 1999, Professor of Public Affairs, B.A., Western Kentucky University; M.A., Ph.D., University of Kentucky
- DeSerpa, Allan C.** 1975, Professor of Economics, B.A., University of Santa Clara; Ph.D., University of California, Santa Barbara
- Detrie, Thomas** 1984, Associate Professor of Design; B.F.A., M.F.A., Louisiana Tech University
- Deviche, Pierre** 1999, Associate Professor of Biology; B.S., Ph.D., University of Lege, Belgium
- Devlin, John** 1998, Assistant Professor of Philosophy, B.A., University of Toronto, Canada; Ph.D., University of Michigan
- Dey, Sandwip** 1987, Professor of Materials Engineering, B.Tech., Banares Hindu University, India; M.S., Ph.D., Alfred University
- Dezelsky, Thomas L.** 1965, Professor Emeritus of Exercise Science and Physical Education; B.S., Central Michigan University; M.A., University of Michigan; H.S.D., Indiana University, Bloomington
- Di Gangi, Samuel** 1990, Associate Professor of Curriculum and Instruction, B.A., University of Pittsburgh; M.Ed., Ph.D., Arizona State University
- Dickerson, Sherry S.** 1986, Faculty Associate of Public Affairs; B.S., Lamar University; M.P.A., Arizona State University
- Dierig, David A.** 1996, Adjunct Faculty of Public Health; B.S., M.S., Arizona State University; Ph.D., University of Arizona
- Dietrich, Suzanne Wagner** 1988, Associate Professor of Computer Science and Engineering; B.S., M.S., Ph.D., State University of New York, Stony Brook
- Dillner, Ann M.** 2001, Assistant Professor of Chemical Engineering and Civil and Environmental Engineering; B.S., Southern Methodist University; M.S., Stanford University; Ph.D., University of Illinois, Urbana
- Dirksen, Shannon Ruff** 1986, Associate Professor of Nursing; B.S.N., Arizona State University; M.S., Ph.D., University of Arizona
- Ditworth, Richard L.** 1959, Professor Emeritus of Engineering; B.S., M.S., Iowa State College; Ph.D., Michigan State University
- Dittert, Alfred E. Jr.** 1967, Professor Emeritus of Anthropology; B.A., M.A., University of New Mexico; Ph.D., University of Arizona
- DiVito, Joseph** 1999, Faculty Associate of Construction; B.S., M.S., Arizona State University
- Doak, R. Bruce** 1999, Professor of Physics and Astronomy; B.S., Cornell University; M.S., Ph.D., Massachusetts Institute of Technology
- Doan, Jerry** (1979), Professor of Music; B.M.E., M.M., North Texas State University; D.M.A., University of Michigan
- Doane, Winifred W.** 1977, Professor Emeritus of Biology; B.S., Hunter College; M.S., University of Wisconsin; Ph.D., Yale University
- Doebler, Bettie Anne** 1977, Professor Emeritus of English; B.A., M.A., Duke University; Ph.D., University of Wisconsin, Madison
- Doig, Stephen** 1976, Professor of Journalism and Telecommunication; B.A., Dartmouth
- Dollin, Michael** 1989, Faculty Associate of Planning and Landscape Architecture; Coordinator, Joint Urban Design Studio, Urban Designer, Joint Urban Design Studio, B.L.A., University of Arizona
- Donelson, Kenneth L.** 1965, Professor of English; B.A., M.A., Ph.D., University of Iowa
- Dooley, Kevin** 1997, Professor of Industrial Engineering and Management; B.S., M.S., Ph.D., University of Illinois, Urbana-Champaign
- Dorman, Michael F.** (1976), Professor of Speech and Hearing Science; B.S., University of Washington, M.A., Hollins College; Ph.D., University of Connecticut
- Dorn, Ronald I.** 1988, Professor of Geography; A.B., M.A., University of California, Berkeley; Ph.D., University of California, Los Angeles
- Doty, Roxanne L.** (1990), Associate Professor of Political Science; B.S., M.A., Arizona State University; Ph.D., University of Minnesota, Twin Cities
- Doubek, Dennis L.** 1976, Associate Research Specialist, Cancer Research Institute; B.S., University of Arizona; Ph.D., University of Illinois
- Douglas, Michael E.** 1986, Museum Professional, Curator of Collections, Biology; B.S., M.S., University of Louisville; Ph.D., University of Georgia
- Dow, John** 1980, Professor of Physics and Astronomy; B.S., University of Notre Dame; Ph.D., University of Rochester
- Dowling, Karen** 1996, Assistant Professor of Computer Information Systems; B.A., University of Michigan; M.S., Ph.D., Arizona State University
- Dowling, Thomas E.** 1988, Professor of Biology; B.S., University of Michigan; Ph.D., Wayne State University
- Downs, Catherine A.** 1983, Clinical Professor of Clinical Laboratory Sciences; B.S., Arizona State University; M.A., Central Michigan University
- Downs, Floyd I.** 1988, Lecturer of Mathematics; A.B., Harvard University; M.A., Columbia University
- Doyle, David F.** 1985, Adjunct Professor of Anthropology; B.A., University of Arizona; M.A., Ph.D., California State University, Chico
- Doyle, Donald P.** (1962), Professor Emeritus of Theatre; B.A., Arizona State University; M.A., Northwestern University; Ph.D., University of Minnesota, Twin Cities
- Doyle, Roy P.** 1959, Professor Emeritus of Curriculum and Instruction; B.A., Arizona State University; M.A., Ed.D., Columbia University
- Drake, Jackson M.** 1974, Professor Emeritus of Education; B.S., M.S., Southern Illinois University, Carbondale; Ed.D., Columbia University
- Dreyfoos, Dale** (1974), Professor of Music; B.M., Florida State University; M.M., University of Texas, Austin

Driscoll, Michael F. 1971), Associate Professor of Mathematics, B.A., Saint John's University; M.S., Ph.D., University of Arizona

Droopad, Ravindranath 1989, Associate Research Scientist, Center for Solid State Electronics Research, Ph.D., Imperial College, University of London (United Kingdom)

Drucker, Jeffery S. 2000, Associate Professor of Physics and Astronomy, B.A., University of California Irvine, Ph.D., University of California, Santa Barbara

Duane, Drake D. (1987), Adjunct Professor of Speech and Hearing Science, A.B., University of Michigan, M.D., Wayne State University

Dubie, Norman (1978), Regents' Professor of English, B.A., Goddard College; M.F.A., University of Iowa

Dudek, Leona M. 1960, Professor Emeritus of Education; B.Ed., National College of Education, M.A., Arizona State University

Duerden, Sarah J. 1998, Lecturer of English, B.A., University of Sheffield, (United Kingdom); M.A., Ph.D., Arizona State University

Duffy, Dennis M. 1977, Associate Professor of Construction, B.S., M.S., Ph.D., University of Arizona

Dugan, Jeanne 1994), Senior Lecturer of English; B.A., University of Michigan; M.A., Ph.D., Arizona State University

Duman, Tolga 1998 Assistant Professor of Electrical Engineering, B.S., Bilkent University (Turkey), M.S., Ph.D., Northeastern University

Dumka, Larry E. (1991), Associate Professor of Family and Human Development; B.A., University of Manitoba (Canada), M.A., Simon Fraser University (Canada), Ph.D., Purdue University

Duncan, Kate C. 1991, Associate Professor of Art; B.A., M.A., University of New Mexico; Ph.D., University of Washington

Dundas, Mary Jane (1975), Associate Professor of Legal and Ethical Studies, B.A., California State University, Long Beach, J.D., Loyola Marymount University

Durand, Barbara A. (1992), Professor of Nursing; Dean, College of Nursing, B.S., College of Saint Teresa, M.S., University of California, San Francisco; Ed.D., University of San Francisco

Durrenberger, Robert W. 1971), Professor Emeritus of Geography, B.S., Moorhead State College; B.S., California Institute of Technology, M.S., University of Wisconsin, Madison; Ph.D., University of California, Los Angeles

Dutrisac, Gordon 1997, Assistant Librarian Noble Reference Services, B.A., Laurentian University (Canada), M.L.I.S., Dalhousie University (Canada)

Dwyer, Karen 1994, Lecturer of English; B.A., Lamar University, M.A., Ph.D., Purdue University

Dyer, Timothy J. (1998), Clinical Professor of Educational Leadership and Policy Studies; B.A., M.A., Eastern Michigan University, Ed.D., Wayne State University

E

Eck, Roger 1970, Professor Emeritus of Computer Information Systems, B.S.Ch.E., Clarkson College of Technology, M.B.A., University of New Mexico, Ph.D., Tulane University

Eckard, Bonnie 1996 Professor of Theatre, Chair, Department of Theatre, B.F.A., University of Illinois; M.A., University of Arizona, Ph.D., University of Denver

Eckert, Thomas W. 1971 Professor of Art, B.A., M.F.A., Arizona State University

Edelsky, Carole 1976) Professor of Curriculum and Instruction, B.A., University of Cincinnati, Ph.D., University of New Mexico

Eder, James F. Jr. 1975, Professor of Anthropology, B.S., California Institute of Technology; M.A., Ph.D., University of California, Santa Barbara

Edsall, Robert M. (2000), Assistant Professor of Geography; B.A., Kenyon College; M.S., Ph.D., Pennsylvania State University

Edwards, Gus 1988), Associate Professor of Theatre

Edwards, John L. (1964, Professor Emeritus of Curriculum and Instruction; B.A., Ball State University, M.A., Ed.D., Arizona State University

Edwards, Marvin J. 1959, Professor Emeritus of Technology; B.S., M.A., Arizona State University

Eeds, Maryann H. (1975, Professor Emeritus of Curriculum and Instruction; B.A., California State University, Sacramento, Ph.D., University of Oregon

Eisenberg, Nancy H. (1976), Regents' Professor of Psychology; B.A., University of Michigan, M.A., Ph.D., University of California, Berkeley

Ekmanis, Rolfs 1963), Professor of Russian, B.A., M.A., University of Wisconsin, Madison; Ph.D., Indiana University, Bloomington

El-Ghazaly, Samir M. 1988, Professor of Electrical Engineering; B.S.E.E., M.S., Cairo University (Egypt); Ph.D., University of Texas, Austin

El-Sharawy, El-Badawy 1989), Associate Professor of Electrical Engineering, B.S.E., M.S.E., Mansoura University (Egypt), Ph.D., University of Massachusetts, Amherst

Ellin, Nan (1998) Associate Professor of Architecture, B.A., Bryn Mawr College, M.A., Ph.D., Columbia University

Ellis, Andrew W. 1998, Assistant Professor of Geography, B.A., M.S., Ph.D., University of Delaware

Ellis, Robert H. 1962, Professor Emeritus of Journalism and Telecommunication; B.A., Arizona State University, M.A., Case Western Reserve University

Ellman, Ira Mark 1978, Professor of Law, B.A., Reed College, M.A., University of Illinois, J.D., University of California, Berkeley

Ellram, Lisa M. (1990) Professor of Supply Chain Management, B.S.B., M.B.A., University of Minnesota, Twin Cities, Ph.D., Ohio State University

Ellsworth, Lola M. (1938), Professor Emeritus of Family and Human Development, B.S., Brigham Young University, M.A., Columbia University

Elman, Colin (1998) Assistant Professor of Political Science, B.A., Nottingham University (United Kingdom), M.A., Ph.D., Columbia University

Elman, Miriam Fendius 1995, Assistant Professor of Political Science, B.A., M.A., Hebrew University; Ph.D., Columbia University

Elmore, James W. 1949, Professor Emeritus of Planning and Landscape Architecture, A.B., University of Nebraska, M.S., Columbia University

Elser, James J. 1997, Professor of Biology, B.S., University of Notre Dame; M.S., University of Tennessee, Knoxville; Ph.D., University of California, Davis

Elser, Monica M. 1996, Academic Associate, Educational Liaison B.S., University of Notre Dame, M.S., University of Tennessee, Knoxville; M.Ed., Arizona State University

Enz, Billie J. 1990, Associate Director for Professional Development and Instruction, Division of Curriculum and Instruction; M.A., Ph.D., Arizona State University

Erickson, Mary L. 1990, Professor of Art B.F.A., University of Illinois; M.A., Ph.D., Ohio State University

Ernzen, James J. 1996, Associate Professor of Construction; B.S., M.S., University of Notre Dame, Ph.D., University of Texas, Austin

Escobar, Edward J. 1993, Associate Professor of Chicana and Chicano Studies and History; B.A., California State University, Dominguez Hills; M.A., Ph.D., University of California, Riverside

Estrada, Ana (1996), Assistant Professor of Family and Human Development, B.A., University of the Pacific; M.S., Ph.D., University of Utah

Etnier, Jennifer L. (1998), Assistant Professor of Exercise Science and Physical Education; B.S., University of Tennessee, Knoxville; M.A., University of North Carolina, Chapel Hill; Ph.D., Arizona State University

Etter, Patricia A. 1988, Archivist, Archives and Manuscripts, B.A., California State University, Long Beach; M.L.S., University of Arizona

Evancho, Dustin 1999, Assistant Professor of Aerospace Studies; B.S., University of Arizona

Evans, Donovan L. 1966, Professor of Engineering, Director Center for Research in Education in Science, Mathematics, Engineering, and Technology; B.S.M.E., University of Cincinnati; Ph.D., Northwestern University

Evans, John X. 1964, Professor Emeritus of English; B.A., Holy Cross College; M.A., Ph.D., Yale University

Eveland, Charles 1974, Professor Emeritus of Health Administration and Policy; B.S., University of Maryland; M.S., Baylor University; Ph.D., University of Michigan

Ewan, Joseph (1994), Assistant Professor of Planning and Landscape Architecture; B.S.D., Arizona State University; M.L.A., University of California, Berkeley

Ewing, Alison (1993), Law Librarian, Circulation/Reference; B.A., M.L.S., University of Michigan

Eyring, LeRoy (1967), Regents' Professor Emeritus of Chemistry and Biochemistry; B.S., University of Arizona; Ph.D., University of California, Berkeley

Eze, Emmanuel (2001), Associate Professor of African American Studies; B.A., Institute of Philosophy, Nigeria; B.A., M.A., Ph.D., Fordham University

F

Faas, Larry A. (1967), Professor Emeritus of Curriculum and Instruction; B.S., Iowa State University; M.A., Colorado State College; Ed.D., Utah State University

Fabes, Richard A. (1983), Professor of Family and Human Development, Chair, Department of Family and Human Development; B.A., University of Colorado; M.S., Ph.D., Oklahoma State University

Fabricius, William (1977), Associate Professor of Psychology; B.A., Boston College; M.S., Wheelock College; Ph.D., University of Maryland

Facinelli, Diane A. (1973), Senior Lecturer of the Barrett Honors College; B.A., M.A., Ph.D., Arizona State University

Faeth, Stanley H. 1980, Professor of Biology; B.S., M.S., University of Cincinnati; Ph.D., Florida State University

Fafitis, Apostolos (1984), Associate Professor of Civil and Environmental Engineering; B.S.E., Aristotelion University of Thessaloniki, Greece; M.Eng., South Dakota School of Mines and Technology; Ph.D., Northwestern University

Fagan, William (1996), Assistant Professor of Biology; B.A., University of Delaware; Ph.D., University of Washington

Fahrtman, Betsy (1988), Professor of Art; B.A., Mount Holyoke College; M.A., Ph.D., University of Delaware

Faith, Roger L. 1981, Professor of Economics; B.A., St. Mary's College of California; M.A., Ph.D., University of California, Los Angeles

Falconer, Steven E. 1969, Associate Professor of Anthropology; B.A., Washington State University; M.A., Ph.D., University of Arizona

Fall, Patricia L. 1959, Associate Professor of Geography; B.A., Prescott College; M.S., Ph.D., University of Arizona

Faltis, Christian J. 1991, Professor of Curriculum and Instruction; B.A., San Francisco State University; M.A., San Jose State University; M.A., Ph.D., Stanford University

Faltz, Leonard M. (1977), Associate Professor of Computer Science and Engineering; B.S., City University of New York; M.S., Harvard University; Ph.D., University of California, Berkeley

Fan, Genghua 1990, Associate Professor of Mathematics, Masters, Institute of Systems Science, China; M.A., Chinese Academy of Science (China); Ph.D., University of Waterloo (Canada)

Fargotstein, Barbara P. 1988, Clinical Associate Professor of Nursing; B.S., B.S.N., Arizona State University; M.N., University of California, Los Angeles

Farin, Gerald (1987), Professor of Computer Science and Engineering; B.A., M.A., Ph.D., University of Braunschweig, Germany

Farmer, Frank D. 1970, Associate Professor of Mathematics; B.A., M.A., University of California, Riverside; Ph.D., University of Washington

Farmer, Jack D. (1998), Professor of Geological Sciences; B.A., California State University, Chico; M.S., University of Kansas; Ph.D., University of California, Davis

Farnsworth, Bill (1939), Faculty Associate of Nursing; B.S.N., University of Massachusetts; M.S.N., University of Evansville

Fausel, Donald F. 1969, Professor Emeritus of Social Work; A.B., S.T.B., S.T.L., Saint Mary's University; M.S.W., Fordham University; D.S.W., Columbia University

Fearon, Harold E. (1967), Professor Emeritus of Purchasing Management, National Association of Purchasing Management Professor; B.S., M.B.A., Indiana University; Ph.D., Michigan State University

Fehr, Fred S. (1971), Professor Emeritus of Psychology; B.S., University of Wisconsin, Madison; M.A., Ph.D., Washington University

- Feldhaus, Anne** 1981, Professor of Religious Studies; B.A. Manhattanville College, Ph.D., University of Pennsylvania
- Feldstein, Alan** (1970), Professor Emeritus of Mathematics, B.A. Arizona State University; Ph.D., University of California, Los Angeles
- Feller, Joseph M.** (1987) Professor of Law, B.A., Harvard University, Ph.D., University of California, Berkeley, J.D., Harvard University
- Fenske, Robert H.** 1974, Professor of Higher and Post Secondary Education; Academic Program Coordinator, High Level Post Secondary Education, B.S., M.S., Ph.D., University of Wisconsin, Madison
- Fernando, Harindra** 1984 Professor of Mechanical and Aerospace Engineering, Director, Center for Environmental Fluid Dynamics, B.S., University of Sri Lanka, Sri Lanka, M.A., Ph.D., Johns Hopkins University
- Ferrall, J. Eleanor** 1969, Librarian Emeritus, Reference Service, A.B., Heidelberg College; M.A., Arizona State University
- Ferraro, Kathleen J.** (1982), Associate Professor of Women's Studies, Director, Women's Studies Program; B.A., Case Western Reserve University, M.A., Ph.D., Arizona State University
- Ferris, Jean** 1985 Professor Emeritus of Music, B.M., University of Michigan, M.A., Arizona State University
- Ferry, David K.** (1983), Regents' Professor of Electrical Engineering, B.S.E.E., M.S.E.E., Texas Technological College, Ph.D., University of Texas, Austin
- Fessenden, Tracy** 1994 Associate Professor of Religious Studies, B.A., Yale University, Ph.D., University of Virginia
- Fewell, Jennifer H.** 1993, Associate Professor of Biology; B.A., Cornell University; M.A., Ph.D., University of Colorado
- Figueira-McDonough, Josephina** 199, Professor of Justice Studies, B.S., University of Lisbon, Portugal, M.S.W., Ph.D., University of Michigan
- Filley, Richard D.** 1985 Associate Administrative Professional; Director, Arizona State University Industrial Feasibility Program, B.S., University of Washington
- Finch, A. Joyce** (1965), Professor Emeritus of Nursing, B.S.N. Augustana College, M.S., University of Colorado, Ph.D., University of Texas, Austin
- Findler, Nicholas V.** 1982, Professor Emeritus of Computer Science and Engineering, B.Eng., Ph.D., Budapest University for Technical Sciences, Hungary
- Fine, Robert** (1997), Senior Lecturer of Sociology, B.A., Boston University, M.A., University of Chicago; Ph.D., New York University
- Finer, Neal** 1977, Professor Emeritus of Curriculum and Instruction, B.A., University of Houston, M.A., University of the Americas, Mexico; Ph.D., University of Texas, Austin
- Fink, Jonathan** (1982), Professor of Geological Sciences, Vice Provost for Research; B.A., City College; Ph.D., Stanford University
- Firestone, Melvin M.** 1968, Professor Emeritus of Anthropology; B.A., University of New Mexico, M.A., Ph.D., University of Washington
- Fischer, Timothy P., Capt.** 2000, Assistant Professor of Military Science; B.B.A., University of Wisconsin
- Fischman, Gustavo E.** 1999, Assistant Professor of Curriculum and Instruction; B.A., University of Buenos Aires, Argentina, M.A., Ph.D., University of California, Los Angeles
- Fish-Ewan, Rebecca** 1994 Assistant Professor of Planning and Landscape Architecture, B.A., M.L.A., University of California, Berkeley
- Fisher, Marvin M.** 1958 Professor Emeritus of English; B.A., A.M., Wayne University, Ph.D., University of Minnesota, Twin Cities
- Fisher, Stuart G.** 1976, Professor of Biology, B.S., M.A., Wake Forest College, Ph.D., Dartmouth College
- Fisher, Teresa** 1995, Assistant Professor of Counselor Education; B.A., M.A., Ph.D., University of Illinois, Urbana-Champaign
- Fisk, R. Leighton** (199), Adjunct Professor of Biotechnology; B.S., M.S., Ph.D., University of Alberta, Canada
- Fitch, Frank W.** (1997) Adjunct Faculty of Microbiology; M.S., M.D., Ph.D., University of Chicago
- Fitch, Gregory W.** 1974, Professor of Philosophy, B.A., Western Washington State College, M.A., Ph.D., University of Massachusetts, Amherst
- Fitzgerald, Mary** 1998, Senior Lecturer of Dance; B.A., University of Maine, M.F.A., Arizona State University
- Flaherty, Richard E.** 1975, Professor Emeritus of Accountancy and Information Management; B.S., M.S., Ph.D., University of Kansas, CPA, Kansas
- Fleming, Robert C.** 1974 Professor of Music, Assistant Director of Bands, B.S., Indiana University of Pennsylvania, M.F.A., Carnegie Mellon University, Ph.D., Southern Illinois University, Carbondale
- Fletcher, Grant** 1956, Professor Emeritus of Music, B.M., Trinity Wesleyan University, M.M., University of Michigan, Ph.D., University of Rochester
- Flores, Alfinio** 1992, Professor of Curriculum and Instruction; B.S., M.S., National University of Mexico, Mexico, Ph.D., Ohio State University
- Florschuetz, Leon W.** 1964, Professor Emeritus of Engineering; B.S., M.S., Ph.D., University of Illinois
- Floyd, Kory** (2000) Assistant Professor of Communication, B.A., Western Washington University; M.A., University of Washington, Ph.D., University of Arizona
- Flys, Michael J.** 1975 Professor of Spanish; Licenciado en Filosofía y Letras, Doctor en Filosofía y Letras, University of Madrid, Spain
- Foard, Fumiko** 1990, Lecturer of Japanese, B.A., Keio Gakuin University, Japan, M.A., Arizona State University
- Foard, James** 1977 Professor of Religious Studies; B.A., College of Wooster, M.A., Ph.D., Stanford University
- Follet, Robert E.** 1995, Librarian, Head, Music Library, B.Mus., Oberlin College, M.Mus., University of Illinois; M.L.S., University of Texas, Austin
- Foote, Joe S.** 2000 Professor of Journalism and Telecommunication, Director, Walter Cronkite School of Journalism and Telecommunication, B.A., M.A., University of Oklahoma; Ph.D., University of Texas, Austin
- Forsyth, Ben R.** 1992, Professor of Health Administration and Policy; Senior Executive Assistant to the President, M.D., New York University

- Foster, David William** (1964), Regents' Professor of Spanish, Chair, Department of Languages and Literatures. B.A., M.A., Ph.D., University of Washington
- Foster, Joyce** 1972, Professor Emeritus of Zoology, B.A., M.A., DePauw University, Ph.D., Arizona State University
- Fotsch, Paul Mason** 1999, Lecturer, Division of Undergraduate Academic Services, B.A., M.A., University of Chicago, Ph.D. University of California San Diego
- Fouch, Matthew** 2001, Assistant Professor of Geological Sciences, B.A., Pomona College, Sc.M., Ph.D., Brown University
- Fouquette, Martin J. Jr.** 1965, Associate Professor of Biology, B.A., M.A., Ph.D., University of Texas, Austin
- Fowler, John W.** 1995, Associate Professor of Industrial Engineering, B.S., M.S., Ph.D., Texas A&M University
- Fox, Peter** (1990), Associate Professor of Civil and Environmental Engineering, B.S., M.S., Ph.D., University of Illinois
- Fox, Steven, MSG** (2000), Instructor of Military Science, A.A., Central Texas College
- Francis, Karl E.** 1993, Adjunct Professor of Geography, B.S. Pennsylvania State University, M.S., Oregon State University Ph.D., University of Wisconsin, Madison
- Francisco, Wilson A.** 1999, Assistant Professor of Chemistry and Biochemistry, B.S., University of Puerto Rico (Puerto Rico) Ph.D., Texas A&M University
- Frasch, Wayne D.** (1989), Professor of Plant Biology, B.A., Hope College, Ph.D., University of Kentucky
- Frazier, James E.** 1963, Professor Emeritus of Education, B.A. University of Northern Colorado, M.A., University of Michigan; Ed.D., University of Northern Colorado
- Freeman, Donald J.** 1989, Professor of Education; B.A., Grinnell College; M.A., Ph.D., Michigan State University
- French, Peter A.** 200, Professor of Philosophy, Director Lincoln Center for Applied Ethics; B.A., Gettysburg College, M.A., University of Southern California, Los Angeles; Ph.D., University of Miami, Coral Gables
- Freund, John E.** (1957), Professor Emeritus of Mathematics, B.A., M.A., University of California Los Angeles, Ph.D., University of Pittsburgh
- Fritzemeyer, Joseph R.** 1973, Professor Emeritus of Accountancy and Information Management, B.B.A. Baylor University M.B.A., D.B.A. Indiana University, C.P.A. Texas
- Fronske, Jeanne** 1975, Professor of Art, B.A., B.F.A., DePauw University Columbus, M.F.A., Ohio State University, Newark
- Frosch, Cynthia** 1999, Assistant Professor of Family and Human Development, B.A., University of Maryland, Baltimore, M.A., Ph.D., University of Illinois Champaign
- Frost, Melvin Jesse** 1965, Professor Emeritus of Geography, B.S., Arizona State University; M.S., Brigham Young University, Ph.D., University of Florida
- Frost, Michael D.** 1995, Faculty Associate of Construction, B.S., M.S., Arizona State University
- Fry, Harold** (1958), Professor Emeritus of Engineering, B.S., Colorado State University, M.E., University of Wyoming, M.S., University of Colorado
- Fry, Jana** 1995, Faculty Associate of Planning and Landscape Architecture, University Geographic Information Systems Coordinator; B.A., University of Denver; M.E.P., Arizona State University
- Fry, Warren D.** 1974, Learning Resources Specialist Emeritus, B.A., University of Northern Iowa, M.A., Arizona State University
- Fuchs, Jacob** 1951, Professor of Chemistry and Biochemistry; B.A., New York University; M.S., Ph.D., University of Illinois
- Fuchs, Rachel G.** (1983), Professor of History, B.A., M.A., Boston University, Ph.D., Indiana University
- Fulginiti, Laura C.** 1998, Adjunct Professor of Anthropology, B.A., Colorado College; M.A., Ph.D., University of Arizona
- Fullerton, Bill J.** 1958, Professor Emeritus of Education, B.S., Northwestern Oklahoma State College; M.A., Ed.D., University of Oklahoma
- Fullinwider, S. Pendleton** 1967, Professor Emeritus of History, B.S., United States Naval Academy, M.S., Ph.D., University of Wisconsin Madison
- Funk, C. Joel** 2000, Adjunct Professor of Biology; B.S., Taber College; M.S., Ph.D., Kansas State University
- Furnish, Dale Beck** 1970, Professor of Law, A.B., Grinnell College; J.D., University of Iowa, LL.M., University of Michigan
- Furuta, Kenneth** (199), Associate Librarian, Government Documents, A.B., University of California, Riverside, M.A., University of North Carolina Chapel Hill, M.Admin., University of California, Riverside, M.L.S., University of Arizona
- Fuse, Montye** (1997), Assistant Professor of English, B.A., California State University, Long Beach, M.A., Ph.D., University of California, Berkeley
- Fussell, Paul S.** 1999, Assistant Professor of Mechanical and Aerospace Engineering, B.S., Montana State University M.E., Ph.D., Carnegie Mellon University

G

- Gaffney, Philip D.** 1957, Professor Emeritus of Education, B.S., Northern Illinois State University, M.A., Ph.D., State University of Iowa
- Gage, I eo** (1999), Assistant Professor of Aerospace Studies; B.S., United States Air Force Academy
- Gaines, Sylvia W.** 1977, Professor Emeritus of Anthropology, B.A., M.A., Ph.D., Arizona State University
- Gale, Betty J.** 1982, Professor of Nursing, Chair, Division of Community Health/Psychosocial Nursing Systems, B.S.N., M.S., Arizona State University, D.N.Sc., University of San Diego
- Galician, Mary-Lou** 1983, Associate Professor of Journalism and Telecommunication; B.A., Long Island University, Brooklyn, M.S., Syracuse University, Ed.D., Memphis State University
- Gallinger, George W.** 1977, Associate Professor of Finance, B.A., Waterloo Lutheran University Canada, M.B.A., York University Canada, Ph.D., Purdue University
- Gammage, Grady Jr.** 1990, Faculty Associate of Planning and Landscape Architecture, B.A., Occidental College, J.D., Stanford University
- Gannod, Barbara D. Birchler** 1998, Lecturer of Computer Science and Engineering, B.Sc., Calvin College; M.Sc., Ph.D., Michigan State University

- Gannod, Gerald C.** (1998). Assistant Professor of Computer Science and Engineering, B.Sc., M.Sc., Ph.D., Michigan State University
- Garcia, Antonio A.** (1989), Associate Professor of Bioengineering, B.S., Rutgers, The State University of New Jersey; Ph.D., University of California, Berkeley
- Garcia, Nelda C.** (1973-75; 1986), Professor Emeritus of Management Communication; B.S., M.A., Texas Woman's University; Ph.D., Michigan State University
- Garcia, Orlando R.** (2000), Academic Associate of Humanities B.A., B.S. Arizona State University; M.A., University of Chicago
- Garcia, Phyllis M.** (1992), Clinical Associate Professor of Curriculum and Instruction, B.A. University of Southern Colorado; M.A., Adams State College, Ed.D., University of Northern Colorado
- Garcia-Fernandez, Carlos** (1990), Associate Professor of Spanish, M.A., University Pontificia de Salamanca (Spain), M.A., Ph.D., University of California, Davis
- Garcia-Pichel, Ferran** (1999), Assistant Research Professor of Microbiology, B.S., M.S., Autonomous University of Barcelona Bellaterra (Spain); Ph.D., University of Oregon
- Garcia-Smith, Dianna** (1996), Faculty Associate of Nursing, B.S.N., Houston Baptist University, M.S., Arizona State University
- Gardner, Carl L.** (1994), Professor of Mathematics B.A. Duke University, Ph.D., Massachusetts Institute of Technology
- Garnero, Edward** (1999), Assistant Professor of Geological Sciences, A.B., University of California, Berkeley, Ph.D., California Institute of Technology
- Garrison, Eleanor** (1973), Professor Emeritus of Nursing B.S.N., M.S.N., Wayne State University
- Garrity, Marjorie L.** (1975), Professor Emeritus of Nursing, B.S., University of Bridgeport; M.S., Case Western Reserve University
- Gasowski, Ronald E.** (1971), Professor of Art, B.S.D., University of Michigan, M.F.A., University of Washington
- Gavin, Rose** (1998), Assistant Law Librarian, B.A. Arizona State University, M.L.S., University of Washington, J.D., Arizona State University
- Geiger, Karen** (1996), Lecturer of Accountancy and Information Management, B.S., University of Nevada, M.S., Arizona State University
- Gel, Esma S.** (2000), Assistant Professor of Industrial Engineering B.S., Orta Dogu Technical University Turkey; M.S., Ph.D., Northwestern University
- Gelb, Anne** (1998), Assistant Professor of Mathematics, B.S. University of California, Los Angeles, Sc.M., Ph.D., Brown University
- Gentrup, William F.** (1991), Associate Research Administrator, Arizona Center for Medieval and Renaissance Studies; B.A., M.A., Ph.D., Arizona State University
- George, Lisa** (1999), Assistant Professor of Classics, B.A. Vassar College; M.A., Bryn Mawr College; M.A., San Francisco State University; Ph.D., Bryn Mawr College
- Gerdes, Karen E.** (1995), Associate Professor of Social Work; B.S., Florida State University; M.S.W. Brigham Young University, Ph.D., Florida State University
- Gereboff, Joel D.** (1978), Associate Professor of Religious Studies; Chair, Department of Religious Studies, B.A., New York University; Ph.D. Brown University
- Gerlach, Vernon S.** (1963), Professor Emeritus of Education; B.A., Wayne State University; M.A., University of Minnesota, Twin Cities; Ed.D. Arizona State University
- Gerritsen, Karin** (1998), Assistant Professor of Exercise Science and Physical Education, B.Sc., M.Sc. Vrije Universiteit, Amsterdam, Netherlands, Ph.D., University of Calgary, Alberta, Canada
- Ghosh, Sumit** (1995), Associate Professor of Computer Science and Engineering, B.Tech., Indian Institute of Technology (India), M.S., Ph.D., Stanford University
- Giard, Jacques** (1998), Professor of Design; Director, School of Design; Dip.Des., IAA Montreal, Canada, H.Dip.Des., Birmingham Polytechnic (United Kingdom), Ph.D., Concordia University, Canada
- Gibbs, W.R.** (1987), Adjunct Professor of Physics and Astronomy; B.S., M.A., University of Texas; Ph.D., Rice University
- Gibney, John** (1992), Adjunct Professor of Bioengineering B.S., St. Peter's College, M.D., New Jersey College of Medicine
- Gieschen, Donald W.** (1959), Professor Emeritus of Philosophy; B.S., Northwestern University; M.A., Ph.D. University of Minnesota, Twin Cities
- Giffin, Frederick C.** (1967), Professor of History; B.A., Denison University, M.A., Ph.D., Eastern University
- Gill, George A.** (1966), Professor Emeritus of Education; B.S., M.A. Arizona State University
- Gillingwater, Denis** (1973), Professor of Art; B.F.A., M.F.A. University of Cincinnati
- Giner, Oscar** (1998), Professor of Theatre; Director, Performance Program, B.A., M.F.A., D.F.A., Yale University
- Gisolo, Margaret** (1954), Professor Emeritus of Dance B.S. Indiana State University, Terre Haute; M.A., New York University
- Glass, Gene V.** (1986), Professor of Educational Leadership and Policy Studies and Psychology in Education, Associate Dean for Research, B.A., University of Nebraska, M.S., Ph.D., University of Wisconsin
- Glass, Sandra R.** (1998), Lecturer of Curriculum and Instruction; B.A., National College of Education, M.A., Northeastern Illinois University; Ph.D., Arizona State University
- Glau, Gregory R.** (1994), Instructional Professor of English B.A., University of Arizona; M.A., Northern Arizona University, Ph.D., University of Arizona
- Glaunsinger, William S.** (1972), Professor of Chemistry and Biochemistry B.S., Miami University, Ph.D., Cornell University
- Glessner, Beth A.** (1995), Academic Associate Undergraduate Academic Advisor; B.A., Grove City College; M.A., Ph.D., Pennsylvania State University
- Glick, Jennifer E.** (2000), Assistant Professor of Sociology, B.A., Pennsylvania State University, M.A., Ph.D. University of Texas, Austin
- Glick, Milton D.** (1991), Professor of Chemistry and Biochemistry, Senior Vice President and Provost, A.B., Augusta College, Ph.D., University of Wisconsin, Madison
- Glick, Paul C.** (1982), Adjunct Professor of Sociology, B.A., DePauw University, M.A., Ph.D., University of Wisconsin, Madison

- Glick, William H.** 1997, Professor of Management, Chair, Department of Management, A.B., University of Michigan; Ph.D., University of California Berkeley
- Glidden-Tracey, Cynthia** 1999, Clinical Assistant Professor of Psychology in Education; A.B., A.M., Ph.D., University of Illinois
- Gober, Patricia A.** (1975), Professor of Geography, B.S. University of Wisconsin, Whitewater; M.A., Ph.D., Ohio State University
- Godfrey, Donald G.** 1988, Professor of Journalism and Telecommunications; B.S., Weber State College; M.S., University of Oregon; Ph.D., University of Washington
- Goggin, Maureen Daly** 1994, Associate Professor of English; B.S., M.A., Northeastern University; Ph.D., Carnegie Mellon University
- Goldberg, Beckian Fritz** 1990, Associate Professor of English; Director, Creative Writing Program; B.A., M.A., Arizona State University; M.F.A., Vermont College
- Goldinger, Stephen D.** 1992, Associate Professor of Psychology, B.A., Ph.D., Indiana University, Bloomington
- Goldstein, Elliott S.** 1974, Associate Professor of Biology; B.S., University of Hartford; M.S., Ph.D., University of Minnesota; Twin Cities
- Golen, Steven P.** 1984, Associate Professor of Accounting and Information Management; B.S., M.A., Western Kentucky University; Ph.D., Arizona State University
- Golshani, Forouzan** 1984, Professor of Computer Science and Engineering; B.S., Arya Mehr University of Technology, Iran; M.S., Ph.D., University of Waterloo (United Kingdom)
- Gomez, Reynaldo A.** 1980, Associate Professor of Curriculum and Instruction; B.A., Southwest Texas State University; M.Ed. Stephen F. Austin State University; Ph.D., Pennsylvania State University
- Gomez Mejia, Luis R.** 1959, Professor of Management; B.A., M.A., Ph.D., University of Minnesota, Twin Cities
- Gonzales, Nancy A.** 1992, Associate Professor of Psychology; B.S., Arizona State University; M.S., Ph.D., University of Washington
- Gonzalez, Josué M.** 1998, Professor of Educational Leadership and Policy Studies, Director, Center for Bilingual Education and Research; B.A., M.A., Texas A&I University, Kingsville; Ed.D., University of Massachusetts, Amherst
- Gonzalez-Santin, Edwin** 1979, Senior Instructional Professor of Social Work; B.A., Cameron State College; M.S.W., Arizona State University
- Goo, Benjamin** 1955, Professor Emeritus of Art; B.F.A., University of Iowa; M.F.A., Creative Academy of Art
- Gooding, Elmer R.** 1967, Professor of Economics; B.S., McPherson College; M.A., Ph.D., University of Kansas
- Goodnick, Stephen M.** (1996), Professor of Electrical Engineering, Chair, Department of Electrical Engineering; B.S., Trinity University; M.S., Ph.D., Cleveland State University
- Gordon, Leonard** 1967, Professor of Sociology, Associate Dean, Academic Programs College of Liberal Arts and Sciences, B.A., Wayne State University; M.A., University of Michigan; Ph.D., Wayne State University
- Gorur, Ravi S.** 1987, Professor of Electrical Engineering; B.S., Bangalore University, India; M.S., Indian Institute of Science, India; Ph.D., University of Windsor, Canada
- Goul, Kenneth Michael** 1987, Professor of Accounting and Information Management; Director Information Technology; B.S., M.B.A., Ph.D., Ohio State University
- Gould, Ian R.** 1998, Assistant Professor of Chemistry and Biochemistry; B.S., Ph.D., University of Manchester, United Kingdom
- Gourley, David R.** 1967, Professor Emeritus of Marketing; B.S., Miami University; M.B.A., University of Toledo; D.B.A., Indiana University
- Goyer, Robert S.** 1981, Professor Emeritus of Communication; B.A., Duquesne University; M.A., Miami University; Ph.D., Ohio State University
- Grace, Edward E.** 1963, Professor Emeritus of Mathematics; B.S., Ph.D., University of North Carolina
- Graf, William L.** (1978), Regents Professor of Geography; B.A., M.S., Ph.D., University of Wisconsin, Madison
- Gratton, Brian J.** 1953, Professor of History; B.A., University of New Mexico; Ph.D., Boston University
- Gray, Shelley** 2000, Assistant Professor of Speech and Hearing Science; B.S., M.S., Ph.D., University of Arizona
- Gray, Susan E.** 1991, Associate Professor of History; A.B., Earham College; M.A., Ph.D., University of Chicago
- Greathouse, Betty M.** 1997, Professor Emeritus of Curriculum and Instruction; B.A., M.A., Ph.D., Arizona State University
- Greeley, Ronald** 1977, Regent Professor of Geological Sciences; B.S., M.S., Mississippi State University; Ph.D., University of Missouri, Rolla
- Green, James L.** 1967, Professor Emeritus of English; B.A., M.A., University of Kansas; Ph.D., University of Nevada, Reno
- Green, Jennifer L.** (1991), Assistant Professor of Chemistry and Biochemistry; B.S., Ph.D., University of Sydney, Australia
- Green, Mary E.** 1967, Professor Emeritus of English; B.A., Queens College; M.A., Saint John's University; Ph.D., University of Chicago
- Green, Samuel B.** 2000, Professor of Educational Psychology; B.A., West Virginia University; M.S., Marquette University; Ph.D., University of Georgia
- Greenberg, Edward A.** 1996, Associate Research Scientist for Nursing; B.A., University of California, Los Angeles; Ph.D., Arizona State University
- Greeneich, Edwin W.** (1952), Associate Professor of Electrical Engineering; B.S.E.E., M.S.F.E., Ph.D., University of California, Berkeley
- Greenspan, Ruth L.** 1997, Assistant Professor of Anthropology; B.A., Carleton College; M.A., Ph.D., University of Oregon
- Graves, Thomas L.** (1997), Assistant Librarian, Hayden Reference Services; B.A., Purdue University; M.A., University of Southern California; M.L.S., Indiana University; A.B.D., University of Chicago
- Grey, Betsy J.** 1987, Professor of Law; B.A., Burnard College; J.D., Georgetown University
- Grier, Marvin** 1957, Professor Emeritus of Exercise Science and Physical Education; B.A., Wisconsin State College, La Crosse; M.A., New York University
- Griffin, Carl E., SFC** 1997, Instructor of Military Science

- Griffin, John M.** 1997, Assistant Professor of Finance; B.A. Baylor University, M.S., Texas A&M University; Ph.D., Ohio State University
- Griffin, William A.** 1988, Professor of Family and Human Development; B.A. Auburn University, M.S., Virginia Polytechnic and State University; Ph.D., Texas Tech University
- Griffith, LeRoy H.** 1958, Professor Emeritus of Education; B.S., M.S., Drake University; Ph.D., University of Iowa
- Griffiths Nagy, Sandra I.** 1982, Academic Associate, Division of Undergraduate Academic Services; Assistant Director, Writing Across the Curriculum Program; B.Ed., M.A., Ph.D., Arizona State University
- Grigsby, J. Eugene** (1966), Professor Emeritus of Art; A.B., Morehouse College, M.A., Ohio State University; Ph.D., New York University
- Grimm, Nancy B.** (1990), Professor of Biology; B.A., Hampshire College, M.S., Ph.D., Arizona State University
- Grinder, Robert E.** (1973), Professor Emeritus of Education; B.S. University of California, Berkeley, Ed.D., Harvard University
- Grobe, Edwin P.** 1957, Professor Emeritus of French; A.B., William Jewell College; M.A., Ph.D., Indiana University, Bloomington
- Gronidin, Robert O.** (1983), Associate Professor of Electrical Engineering, Director, Student Academic Services, College of Engineering and Applied Sciences; B.S., M.S., Ph.D., University of Michigan
- Gross, Douglas R.** 1968, Professor Emeritus of Counselor Education; B.A., M.A., Western Michigan University; Ph.D., University of Wisconsin, Madison
- Grossman, Louis H.** 1966, Professor Emeritus of Management; B.A., University of Michigan; M.B.A., Ph.D., Michigan State University
- Groy, Thomas L.** (1983), Associate Research Professor of Chemistry and Biochemistry; B.S., Adams State College; Ph.D., Arizona State University
- Gruzinska, Aleksandra** 1973, Assistant Professor of French; B.A., M.A., State University of New York, Buffalo; Ph.D., Pennsylvania State University
- Gryder, Robert** (1959–63–1964), Professor of Curriculum and Instruction; B.A., Northwestern State University, M.Ed., Louisiana State University; Ed.D., University of North Dakota
- Guerin, Sanford M.** (1984), Professor of Law; B.S., Boston University; J.D., University of San Francisco; LL.M., New York University
- Guerrero, Laura** 1996, Associate Professor of Communication; B.A., M.A., San Diego State University; Ph.D., University of Arizona
- Guhathakurta, Subhrajit** 1994, Associate Professor of Planning and Landscape Architecture; B.Arch., Jadavpur University, India; M.C.R.P., Iowa State University; Ph.D., University of California, Berkeley
- Guilbeau, Eric J.** (1977), Professor of Biotechnology, Chair, Department of Bioengineering; B.S., M.S., Ph.D., Louisiana Tech University
- Guinouard, Donald E.** (1966), Professor Emeritus of Counselor Education; B.S., M.S., Montana State College; Ed.D., Washington State University
- Guleserian, Theodore** 1971, Associate Professor of Philosophy; B.A., University of California, Riverside; Ph.D., Yale University
- Gullett, Gayle** (1993), Associate Professor of History; B.A., M.A., Loma Linda University; Ph.D., University of California, Riverside
- Gully, Anthony Lacy** 1972, Associate Professor of Art; B.A., University of California, Riverside; M.A., University of California, Berkeley; Ph.D., Stanford University
- Guntermann, Gail** 1977, Professor of Spanish; B.S., University of Montana; M.A., University of New Mexico; Ph.D., Ohio State University
- Guntermann, Karl L.** 1982, Fred E. Taylor Professor of Real Estate; A.B., Knox College; M.B.A., D.B.A., Indiana University
- Gupta, Sanjay** 1990, Associate Professor of Accountancy and Information Management; B.Com., Bombay University (India); B.Laws., Calcutta University, India; M.S.A., Bowling Green State University; Ph.D., Michigan State University; C.P.A., Ohio
- Gust, J. Devens** 1975, Professor of Chemistry and Biochemistry, Chair, Department of Chemistry and Biochemistry; B.S., Stanford University; M.S., Ph.D., Princeton University
- Gustavsson, Nora S.** 1994, Associate Professor of Social Work; A.B., M.S.W., City University of New York; Ph.D., University of Southern California
- Gutiérrez, Guadalupe** (1999), Assistant Professor of Chicana and Chicano Studies and Women's Studies; B.S., California State University, Northridge; M.A., Ph.D., University of Michigan, Ann Arbor
- Gutierrez, Nancy A.** 1985, Professor of English, Associate Dean, Administration and Personnel, College of Liberal Arts and Sciences; B.A., Denison University; M.A., Ph.D., University of Chicago
- Guzzetti, Barbara J.** 1988, Professor of Curriculum and Instruction; B.S., M.S., Northern Illinois University; Ph.D., University of Colorado
- Gwinner, Robert F.** 1970, Professor Emeritus of Marketing; B.S., University of Southern Mississippi; M.B.A., Ph.D., University of Arkansas

H

- Haberman, Donald C.** (1967), Professor Emeritus of English; B.A., Rutgers, The State University of New Jersey; M.A., Ph.D., Yale University
- Haberman, Lidia W.** 1967, Assistant Professor of Latin; B.A., Bryn Mawr College; M.A., Yale University
- Hackbarth, Glenn A.** 1976, Professor of Music; B.M., University of Wisconsin, Madison; M.M., D.M.A., University of Illinois
- Hackett, Edward J.** 1998, Professor of Sociology; B.A., Colgate University; M.A., Ph.D., Cornell University
- Hackett, Gail** 1988, Professor of Counseling Psychology and Counselor Education; Vice Provost for Academic Personnel; B.A., M.Ed., Ph.D., Pennsylvania State University
- Hadley, Neil F.** (1966), Professor Emeritus of Biology; B.A., Eastern Michigan University; Ph.D., University of Colorado
- Haefler, J. Richard** (1976), Associate Professor of Music; B.M., Ohio State University; M.M., University of Arizona; Ph.D., University of Illinois

- Haenn, Nora M.** 1999, Assistant Professor of Anthropology, B.A., Fordham University, M.A., Ph.D. Indiana University, Bloomington
- Haessler, Alice M.** 1997, Adjunct Professor of Anthropology, B.A., University of Pennsylvania, M.A., Ph.D. Arizona State University
- Haggerson, Nelson L.** 1961-63, 1964, Professor Emeritus of Curriculum and Instruction; B.A., Vanderbilt University; M.S., New Mexico Western College, Silver City; Ph.D., Claremont Graduate School
- Hagler, Debra** 1996, Clinical Associate Professor of Nursing, B.S.N., New Mexico State University, M.S., University of Arizona
- Hahn, Arthur W.** 1962, Professor Emeritus of Art, B.F.A., San Francisco Art Institute; M.A., California State University, San Francisco
- Hahn, Thomas** 1995, Assistant Professor of Architecture, B.A., University of Washington, M.Arch., Arizona State University
- Hajicek, James** 1976, Associate Professor of Art, B.F.A., Kansas City Art Institute, M.F.A., University of New Mexico
- Hakac, John** 1966, Professor Emeritus of English, A.B., Centre College, M.A., Ph.D., University of Texas, Austin
- Haley, Arthur J.** 1976, Professor of Recreation Management and Tourism, B.A., Stonehill College, M.Ed., Springfield College, Ph.D., Texas A&M University
- Hall, James A.** 1991, Adjunct Professor of Engineering, B.S., M.S., University of California, Berkeley, Ph.D., Ohio State University
- Hall, John S.** 1973, Professor of Public Affairs, B.A., M.A., San Diego State University; Ph.D., University of Oregon
- Halverson, Roy K.** 1985, Professor Emeritus of Journalism and Telecommunications, B.S., M.S., University of Wisconsin, Madison, Ph.D., University of Illinois
- Hamilton, Robert** 1985, Professor of Music, B.M., Indiana University, Bloomington, M.M., Catholic University of America
- Hammond, Phillip C.** 1996, Adjunct Professor of Anthropology, B.A., DeWitt University, M.A., Ph.D., Yale University
- Hanish, Laura** 1997, Assistant Professor of Family and Human Development, B.S., Arizona State University; M.A., Ph.D., University of Illinois, Chicago
- Hanna, Albert Lyle** 1961, Professor Emeritus of Music, B.M., University of Cincinnati, Ph.D., Indiana University, Bloomington
- Hanson, Gary** 1999, Professor of Educational Leadership and Policy Studies, B.A., M.A., Ph.D., University of Minnesota
- Hanson, Randel D.** 1990, Assistant Professor of Justice Studies, B.A., Ph.D., University of Minnesota
- Hanson, Roland C.** 1966, Professor Emeritus of Physics and Astronomy, B.S., Michigan College of Mining and Technology, M.S., Ph.D., University of Illinois
- Happel, Stephen K.** 1975, Professor of Economics, B.A., University of Missouri, M.A., Ph.D., Duke University
- Hardt, Ronald A.** 1966, Professor Emeritus of Sociology, A.B., M.A., University of Cincinnati, Ph.D., Indiana University, Bloomington
- Hardt, Annanelle** 1965, Professor Emeritus of Curriculum and Instruction, B.A., Southwestern University, M.A., Cornell University, Ph.D., University of Texas, Austin
- Haried, Andrew A.** 1969, Professor Emeritus of Accounting and Information Management, B.A., Hastings College, M.A.S., Ph.D., University of Illinois, C.P.A., Arizona, Illinois, North Carolina
- Harlan, Sharon L.** 1998, Associate Professor of Sociology, B.A., Northeastern University; M.A., Ph.D., Cornell University
- Harmon-Vaughan, Beth** 1995, Assistant Professor of Design, B.A., University of Missouri, M.A., University of Georgia
- Harrigan, Carol Ann** 1998, Faculty Associate of Nursing, B.S.N., Rhode Island College; M.S.N., Indiana University
- Harrington, Rodney E.** 1992, Research Professor of Microbiology, A.B., University of South Dakota, Ph.D., University of Washington
- Harris, Jerry D.** 1972, Professor of Educational Psychology, B.S., Illinois State University, Ph.D., University of Minnesota, Twin Cities
- Harris, Joseph** 1963, Professor Emeritus of Chemistry and Biochemistry, B.S., University of Maryland, M.A., Ph.D., Johns Hopkins University
- Harris, Kathryn M.** 1965, Assistant Professor of English, B.A., M.A., Arizona State University
- Harris, Mark** 1980, Professor Emeritus of English, B.A., M.A., University of Denver, Ph.D., University of Minnesota, Twin Cities
- Harris, Walter Jr.** 1960, Professor Emeritus of Music, B.S., Knoxville College, M.M., Ph.D., University of Minnesota, Twin Cities
- Harrison, Jon F.** 1991, Associate Professor of Biology, B.S., University of Toronto, Canada; M.S., University of Pittsburgh, Ph.D., University of Colorado
- Hartman, Thomas S.** 1991, Associate Professor of Architecture, D.P.G., Paris School of Beaux Arts, France
- Hartwell-Hunnicut, L. Kay** 1975, Associate Professor of Educational Leadership and Policy Studies, B.S., M.A., Murray State University, Ph.D., Southern Illinois University, Carbondale, J.D., Arizona State University
- Hasset, Matthew J.** 1966, Professor Emeritus of Mathematics, B.S., Fordham University, M.S., Ph.D., Rutgers, The State University of New Jersey
- Hastings, Vernon L.** 1973, Professor Emeritus of Construction, B.S.M.E., University of Nebraska, M.S.I.E., Oklahoma A&M University
- Hatfield, Mary M.** 1985, Professor Emeritus of Curriculum and Instruction, B.S., M.S., Ph.D., University of Kansas
- Haugen, Kathryn L.** 1995-99, 2000, Faculty Associate of Nursing, B.S., Adelphi University, M.S., Arizona State University
- Hauser, Carmela** 2000, Faculty Associate of Nursing, B.S., University of Rochester, M.S., University of San Diego
- Hawkos, Iise J.** 1981, Associate Master Professorial, Slide Collection, School of Art, B.A., United States International University, M.A., University of Wisconsin, Madison
- Hayes, Colleen** 1978, Lecturer of Computer Information Systems, B.S., M.B.A., Arizona State University
- Hayes, Mark** 1996, Assistant Professor of Chemistry and Biochemistry, B.A., Humboldt State University, Ph.D., Pennsylvania State University
- Haygood, Robert C.** 1971, Professor Emeritus of Psychology, B.S., University of Illinois, M.S., Ph.D., University of Utah

- Haynes, Peter** 1975 . Professor of Justice Studies, B.S. University of South Africa; United Kingdom; M.A., Ph.D. University of Toronto; Canada
- Haynes, Richard J.** (1990). Adjunct Professor of Engineering, B.A., Miami University; M.D., University of California, San Francisco
- Hazel, Jeffrey R.** 1975 . Professor of Biology, B.A., College of Wooster, M.S., Ph.D. University of Illinois
- He, Jiping** 1994 . Associate Professor of Bioengineering, B.S., Huazhong University of Science and Technology, Wuhan, China; M.S., Ph.D., University of Maryland
- Healy, Heather** 2000 . Faculty Associate of Nursing, B.S., Arizona State University
- Hedrick, Philip W.** (1992). Professor of Biology, B.A., Hanover College; M.S., Ph.D., University of Minnesota
- Heenan, Katherine L.** 1978 . Lecturer of English, B.A., California State University, Chico; M.A., Ph.D., University of Connecticut, Storrs
- Hegmon, Michelle** 1995 . Associate Professor of Anthropology, B.A., University of Virginia; M.A., Ph.D., University of Michigan
- Heier, William D.** 1966 . Professor Emeritus of Management, B.S., University of Maryland; M.A., George Washington University; Ph.D., American University
- Heindl, Jennifer** 1999 . Lecturer of the Barrett Honors College, B.A., M.A., Ph.D. University of California, Berkeley
- Hejduk, Renata** (1999). Assistant Professor of Architecture, B.A. Barnard College; M.A. Tufts University
- Heller, Jules** 1976 . Professor Emeritus of Art, Dean Emeritus, Herberger College of Fine Art, B.A. Arizona State University; M.A., Columbia University; Ph.D., University of Southern California
- Helms, Joyce Randel** 1976 . Professor of English, B.A. University of California, Riverside; Ph.D., University of Washington
- Helmstadter, Gerald C.** 1959 . Professor Emeritus of Education, B.S., M.S., Iowa State University; Ph.D., University of Minnesota; Twin Cities
- Helton, Jon C.** 1973 . Professor Emeritus of Mathematics, B.S. Southwest Texas State College, M.A., Ph.D. University of Texas, Austin
- Hembree, Gary G.** 1986 . Senior Research Scientist of Physics and Astronomy, B.A., University of California, San Diego; Ph.D., Arizona State University
- Henderson, Mark** 1984 . Professor of Industrial Engineering, B.S.M.E., M.S.M.E., Ph.D., Purdue University
- Hendrick, Thomas E.** 1984 . Professor of Supply Chain Management, B.S., M.B.A., University of Washington; Ph.D., University of Oregon
- Hendricks, Lutz** (1996). Assistant Professor of Economics, Diplom Volkswirt, Universität zu Köln, Germany, M.A., American University; Ph.D., University of Pennsylvania
- Hendricks, Wanda A.** 1992 . Associate Professor of History, B.A. Limestone College; M.A., Wake Forest University; Ph.D., Purdue University
- Hendrickson, Lester F.** 1968 . Professor Emeritus of Materials Science and Engineering; B.S., M.S. Michigan Technological University; Ph.D. University of Illinois
- Hendrickson, Suzanne B.** 1990 . Lecturer of French; B.S., M.A., Louisiana State University, Baton Rouge; Ph.D., Washington University, St. Louis
- Hendrickson, William L.** (1976). Associate Professor of French, B.A. Arizona State University; M.A., University of Kansas; Ph.D., Princeton University
- Hendrix, Donald Louis** 198 . Adjunct Associate Professor of Plant Biology; Plant Physiologist, U.S.D.A. Agricultural Research Service, B.A., Central Washington University; M.S., University of Washington; Ph.D., Washington State University
- Henkel, Ray** 1966 . Professor Emeritus of Geography, B.S. Arizona State University; M.S., Ph.D., University of Wisconsin, Madison
- Hennington, Jo Ann** 1975 . Professor Emeritus of Management Communication, B.A., M.B.A., Ed.D., Arizona State University
- Henry, Joseph** (1988). Professor Emeritus of Engineering, B.S., West Virginia University; M.S., Ph.D., University of Michigan
- Hepburn, John R.** (1984). Professor of Justice Studies, B.A. Butler University; M.S., University of Kentucky; Ph.D. University of Iowa
- Hepworth, Dean H.** (1991). Professor Emeritus of Social Work, B.S., M.S.W., Ph.D. University of Utah
- Herald, Cherry L.** (1973). Research Professor, Cancer Research Institute, B.A., University of Colorado; Ph.D., Arizona State University
- Herald, Delbert L.** 1973 . Research Associate Professor, Cancer Research Institute, B.A., University of Colorado; Ph.D., Arizona State University
- Herbots, Nicole** 1991 . Associate Professor of Physics and Astronomy, Engineering Degree, Ph.D. Catholic University of Louvain, Belgium
- Herman, George R.** 1956 . Professor Emeritus of English; M.A. University of Kansas
- Herman, Richard M.** 1992 . Adjunct Professor of Bioengineering; B.S., Case Western Reserve University; M.B., B.Ch., B.A.O., Queen's University Faculty of Medicine, United Kingdom
- Hernandez, Armand P.** 1974 . Professor Emeritus of Justice Studies, B.A., M.A., San Jose State University; Ed.D., University of Southern California
- Hernandez-G., Manuel de Jesús** 1992 . Associate Professor of Spanish; B.A. University of California, San Diego; M.A., Ph.D. Stanford University
- Herrera, Richard** 1989 . Associate Professor of Political Science, Director, Graduate Studies, B.A., M.A., Saint Mary's University; Ph.D., University of California, Santa Barbara
- Herring, Donald E.** 1999 . Assistant Professor of Design; B.A., American University; B.S.D., M.S.D., Arizona State University
- Herrington, Scott S.** 1981 . Librarian, Head, Library Instruction, Systems, and Technology; B.A., State University of New York, Plattsburgh; M.L.S., University of Tennessee; Ph.D., Arizona State University
- Hershauer, James C.** 1969 . Professor of Management; B.S., Purdue University; M.B.A., D.B.A., Indiana University; Bloomington
- Hertz, Michael G.** 1987 . Associate Professor of Finance, B.A., M.B.A., M.S. University of Rochester; Ph.D. University of Oregon

- Hervig, Richard L.** 1981, Senior Research Scientist, Center for Solid State Science, B.S., University of Iowa; Ph.D. University of Chicago
- Hestenes, David O.** (1966), Professor Emeritus of Physics and Astronomy; B.A., Pacific Lutheran College; M.A., Ph.D., University of California, Los Angeles
- Hester, John J. "Jeff"** 1991, Professor of Physics and Astronomy, B.A., M.S., Ph.D., Rice University
- Heydt, Gerald T.** 1995, Professor of Electrical Engineering, Director, Center for Advanced Control of Energy and Power Systems, B.S.E.E., Cooper Union University; M.S.E.E., Ph.D. Purdue University
- Hickman, David R.** 1952, Regents' Professor of Music, B.M., University of Colorado, M.M., Wichita State University
- Higgins, Norman C.** (1968), Professor Emeritus of Educational Media and Computers; B.S., Central Missouri State College; M.S., Ph.D., Syracuse University
- Higgins, Walter T. Jr.** (1967), Professor of Electrical Engineering, B.E.E., Manhattan College; M.S., Ph.D. University of Arizona
- Higgs, Allen A.** 1980, Senior Research Specialist, Center for Solid State Science; B.S., Arizona State University
- Hill, Gary W.** (1999), Professor of Music, Director of Bands, B.M.E., M.M., University of Michigan
- Hinks, Robert W.** 1981, Associate Professor of Civil and Environmental Engineering, B.Sc., University of Wales, United Kingdom; M.S.E., M.A., Ph.D., Princeton University
- Hinrichs, Richard N.** (1987), Associate Professor of Exercise Science and Physical Education, A.B., Oberlin College, M.A., University of Iowa; Ph.D., Pennsylvania State University
- Hirleman, Edwin D. Jr.** 1977, Professor Emeritus of Mechanical and Aerospace Engineering; B.S.M.E., M.S.M.E., Ph.D., Purdue University
- Hitt, Michael** 2000, Professor and Weatherup Overby Chair in Executive Leadership, B.B.A., M.B.A., Texas Tech University; Ph.D., University of Colorado
- Hoffer, Warren W.** (1972), Professor of Music; B.M., M.M., University of Wisconsin, Madison
- Hoffman, Dan** (1999), Professor of Architecture; B.Arch., Cooper Union
- Hoffman, Dennis L.** 1979, Professor of Economics, Associate Dean, Graduate Programs, College of Business; B.S., Grand Valley State University; M.A., Ph.D., Michigan State University
- Hoffman, Steven A.** 1985, Associate Professor of Microbiology, B.A., Clark University, M.A., Ph.D. University of Colorado
- Hoffmeister, J. Ronald** 1953, Associate Professor of Finance; B.S., Millikin University; M.S., Ph.D., University of Illinois
- Hofmann, Gretchen E.** 1999, Assistant Professor of Biology; B.S., University of Wyoming; M.S., Ph.D., University of Colorado Boulder
- Hogan, Timothy D.** 1970, Professor of Economics, Director, Center for Business Research, Director, Lewin Seidman Research Institute, A.B., University of California, Berkeley, M.A., University of California, Davis, Ph.D., Virginia Polytechnic Institute and State University
- Hogg, Gary L.** 1995, Professor of Industrial Engineering, Chair, Department of Industrial Engineering, B.S., Texas A&M University; M.S., Ph.D., University of Texas, Austin
- Hokin, Jeanne** 1997, Lecturer of Art, B.A., Ph.D., University of California, Santa Barbara
- Holbert, Keith E.** 1989, Associate Professor of Electrical Engineering, B.S., M.S., Ph.D., University of Tennessee
- Holbrook, Amy K.** 1975, Associate Professor of Music, Associate Director, School of Music, B.A., M.A., Mills College; Ph.D., University of Washington
- Holley, Lynn C.** 2001, Assistant Professor of Social Work, B.A., M.S.S.W., University of Tennessee, Knoxville; Ph.D. University of Washington
- Holloway, Allen Jr.** (1992), Adjunct Professor of Biomechanics, B.A., Yale University; M.D., Harvard University
- Holloway, John R.** (1969), Professor of Chemistry and Biochemistry and Geological Sciences; B.S., University of Oregon; Ph.D., Pennsylvania State University
- Holloway, Victoria** (1995), Associate Professor of Theatre, B.A., Boise State University
- Holschuh, Jane** 2000, Assistant Professor of Social Work, B.A., M.S.W., Ph.D., University of California, Berkeley
- Holway, James** 1993, Faculty Associate of Planning and Landscape Architecture, B.A., Cornell University; M.R.P., Ph.D., University of North Carolina, Chapel Hill
- Hom, Peter W.** 1984, Professor of Management, B.A., New York University; M.A., University of California, Berkeley, Ph.D., University of Illinois
- Homa, Donald L.** 1975, Professor of Psychology, B.S., University of Iowa, M.S., Ph.D., University of Wisconsin, Madison
- Homer, Judith** (1978), Clinical Associate Professor of Counseling Psychology and Counselor Education, Director, Counselor Training Center, B.A., M.S., Ph.D., University of Oklahoma
- Hooper, J. Kenneth** 1991, Professor of Plant Biology, Chair, Department of Plant Biology, B.A., Goshen College, M.S., Ph.D., University of Michigan
- Hood, Stafford** 1992, Associate Professor of Counselor Education, B.A., M.S., University of Wisconsin, Whitewater, Ph.D., University of Illinois
- Hoover, Helene M.** (1957), Professor of Family and Human Development; B.S., M.S., Louisiana State University, Ed.D., Oklahoma State University
- Hope, Diane** 1997, Assistant Research Professor of Biology, B.S., University of London (United Kingdom), M.S., Ph.D., University of Aberdeen (United Kingdom)
- Hoppensteadt, Frank C.** 1995, Professor of Mathematics and Electrical Engineering, Director, Center for System Science and Engineering Research, B.A., Butler University; M.S., Ph.D., University of Wisconsin, Madison
- Horan, Elizabeth R.** 1989, Associate Professor of English; A.B., Columbia University, Ph.D., University of California, Santa Cruz
- Horan, John J.** 1985, Professor of Counseling Psychology and Counselor Education, A.B., M.A., University of Detroit; Ph.D., Michigan State University
- Horowitz, Renee** 1986, Professor of Information and Management Technology, B.A., Brooklyn College; M.A., Ph.D., University of Colorado
- Horwath, Peter** 1973, Professor of German, Abitur, Realgymnasium Landshut, Germany; B.A., M.A., Indiana University, Bloomington; Ph.D., University of Michigan

- Hottelling, Katsuko T.** 1991, Associate Librarian Technical Services Department. B.A., M.A., University of North Carolina, Chapel Hill; M.A., University of Oregon
- Hoult, Thomas Ford** 1964, Professor Emeritus of Sociology, B.A., University of Illinois; M.A., Whittier College, Ph.D. University of Southern California
- Houston, Sandra L.** 1984, Professor of Civil and Environmental Engineering, Chair, Department of Civil and Environmental Engineering, B.S., University of Oklahoma; M.S.C.E., University of New Mexico; Ph.D., University of California, Berkeley
- Houston, William N.** 1984, Professor of Civil and Environmental Engineering, Professional Degree in Geological Engineering, Colorado School of Mines; M.S.C.E., Ph.D., University of California, Berkeley
- Howard, Pamela** 1996, Lecturer of Speech and Hearing Science, B.A., M.A., California State University, Fresno
- Howells, Edmund G.** 1960, Professor Emeritus of Philosophy, B.A., University of Utah, M.A., University of Michigan, M.A., Middlebury College; Ph.D., Stanford University
- Hoy, Frank P.** 1978, Associate Professor of Journalism and Telecommunication, B.A., George Washington University, M.A., American University
- Hubbard, Paul G.** 1957, Professor Emeritus of History, A.B., Wabash College, M.A., Ph.D., University of Illinois
- Hubele, Norma F.** 1984, Professor of Industrial Engineering; B.S., University of Massachusetts, M.S., Ph.D., Rensselaer Polytechnic Institute
- Hudak, Thomas** 1988, Professor of Anthropology, B.A., M.A., University of Wisconsin, Madison; Ph.D., University of Michigan
- Hudelson, Sarah J.** 1989, Professor of Curriculum and Instruction, Interim Associate Dean for Academic Programs and Personnel; B.S., College of Wooster; M.A., Ph.D., University of Texas, Austin
- Huey, Ben M.** (1979), Associate Professor of Computer Science and Engineering, Associate Dean for Planning and Administration, B.S., Harding College; M.S., Ph.D., University of Arizona
- Huff, Robert A.** (1985), Professor Emeritus of Education, B.A., University of Kansas, M.A., University of Missouri, Kansas City; Ed.D., University of Oregon
- Hui, Joseph Y.** 1999, Professor of Electrical Engineering, Chair, International Switching Symposium, Interim Director, Telecommunications Research Center, B.S., M.S., Ph.D., Massachusetts Institute of Technology
- Huizingh, William** (1959), Professor Emeritus of Accountancy and Information Management, B.S.B.A., M.B.A., University of Denver, Ph.D., University of Michigan; C.P.A., Arizona, Colorado
- Humphrey, Ted** 1966, Professor of Philosophy, Dean, Barrett Honors College, A.B., M.A., University of California, Riverside, Ph.D., University of California, San Diego
- Humphreys, Jere T.** 1987, Professor of Music, B.M., University of Mississippi; M.M., Florida State University, Ph.D., University of Michigan
- Hunter, Betty A.** (1966), Professor Emeritus of Family and Human Development; B.S., M.Ed., University of North Carolina, Greensboro
- Hunter, Gary K.** (1999), Assistant Professor of Marketing, B.S., United States Military Academy, M.B.A., University of Tennessee, Ph.D., University of North Carolina
- Hunter, Sue** (1999), Assistant Librarian, Hayden Reference Services, B.A., McMaster University, Canada; M.L.S., Dalhousie University, Canada
- Huntington, Virginia R.** (1962), Professor Emeritus of Accounting and Information Management; B.A., M.B.A., University of Kansas; Ph.D., University of Texas, C.P.A., Arizona, Missouri
- Hurdle, Donna E.** 1997, Assistant Professor of Social Work, B.A., Susquehanna University; M.S.W., University of Maryland, Baltimore; Ph.D., University of South Carolina, Columbia
- Hurlbert, Glenn** 1997, Associate Professor of Mathematics, B.S., Wake Forest University, M.Sc., State University of New York, Stony Brook; Ph.D., Rutgers, The State University of New Jersey
- Huss, Gary** 1998, Senior Research Scientist of Geological Sciences; B.A., Rice University; M.S., University of New Mexico; Ph.D., University of Minnesota
- Hussman, Stephen J.** 1999, Assistant Archivist, B.A., Wilmington College of Ohio; M.A., Wright State University
- Huston, Gerald D.** 1962, Professor Emeritus of Accountancy and Information Management, B.S.C., M.A., Ph.D., University of Iowa
- Hutt, Michael D.** 1982, Davis Distinguished Professor of Marketing, B.B.A., M.B.A., Ohio University, Ph.D., Michigan State University
- Hwang, Yuhchang** 1995, Associate Professor of Accountancy and Information Management, B.A., Fu Jen Catholic University, Taiwan; M.S., National Cheng Chi University (Taiwan), Ph.D., University of California, Berkeley
- I**
- Idso, Sherwood J.B.** 1984, Adjunct Professor of Geography and Plant Biology, Research Physicist, U.S.D.A. Agricultural Research Service, B.S., M.S., Ph.D., University of Minnesota
- Igoe, Ann Reid** 1999, Clinical Assistant Professor of Psychology in Education, B.S., Grand Canyon University, M.A., Ph.D., Arizona State University
- Ihrig, Edwin** (1979), Professor of Mathematics; B.S., M.A., University of Maryland; Ph.D., University of Toronto, Canada
- Imdieke, LeRoy** 1968, Professor Emeritus of Accountancy and Information Management, B.S., Valley City State College, M.A., University of North Dakota, Ph.D., University of Illinois, C.P.A., Illinois
- Ingraham, Leonard W.** 1973, Lecturer Emeritus of Education, B.S., City College of City University; M.A., Ed.D., Columbia University
- Ingram, David** 1998, Professor of Speech and Hearing Science; Chair, Department of Speech and Hearing Science, B.S., Georgetown University, Ph.D., Stanford University
- Ingram, Kelly D.** (1998), Clinical Assistant Professor of Speech and Hearing Science, B.A., University of British Columbia, Canada; M.S., Purdue University
- Inskeep, Gordon C.** (1968), Professor Emeritus of Management, B.Ch.E., Ohio State University, Ph.D., Columbia University
- Irvine, Daniel E.** 1997, Lecturer of Theatre; B.F.A., M.F.A., University of North Carolina, Chapel Hill
- Ismeurt, Robert L.** 1989, Associate Professor of Nursing, B.S.N., Florida State University, M.S., Arizona State University, Ph.D., University of Texas, Austin

Isom, Matthew 1996, Senior Lecturer of Mathematics, Director, First Year Mathematics B.A., Humbolt State University, M.A. Ph.D., University of Northern Colorado

Itule, Bruce D. 1985, Clinical Professor of Journalism and Telecommunication, Director, Student Media, B.A., University of Arizona, M.A. University of Colorado

Iverson, Peter 1986, Regents' Professor of History; B.A., Carleton College; M.A., Ph.D., University of Wisconsin, Madison

Iyer, Govind 1998, Assistant Professor of Accountancy and Information Management, B.S., University of Bombay (India) M.Tech., Ph.D., Georgia State University

J

Jackiewicz, Elzbieta 1994, Lecturer of Mathematics, M.Sc., University of Gdansk, Poland

Jackiewicz, Zdzisław 1987, Professor of Mathematics, M.S., Technical University of Gdansk (Poland); M.S., Ph.D. University of Gdansk (Poland)

Jacks, Mary I. 1955, Professor Emeritus of Business Administration; B.A., M.A., Arizona State University, C.P.S., Arizona

Jackson, Donald W. Jr. (1972), Professor of Marketing, B.A., Albion College, M.B.A. Ph.D., Michigan State University

Jackson, Naomi M. 1995, Assistant Professor of Dance, B.A., McGill University (Canada) M.A., University of Surrey (United Kingdom); Ph.D., New York University

Jacob, Richard J. 1963, Professor of Physics and Astronomy; B.S., Ph.D., University of Utah

Jacobowitz, Ronald 197, Professor Emeritus of Mathematics, B.A. City College of New York, M.S., University of Chicago, Ph.D., Princeton University

Jacobs, Bertram L. 1987, Professor of Microbiology; Director, Interdisciplinary Committee for Molecular and Cellular Biology, B.S., Rutgers, The State University of New Jersey, Ph.D., University of California, Berkeley

Jacobs, H. Donald (1972), Professor Emeritus of Curriculum and Instruction, Director, Reading Clinic, B.A.Ed., M.A.Ed., Central Washington State College; D.Ed., University of Oregon

Jacobson, Arthur 1956, Professor Emeritus of Art, B.S., M.S., University of Wisconsin, Madison; Ph.D., University of Minnesota, Twin Cities

Jacobson, David 1992, Associate Professor of Sociology, B.A. Hebrew University of Jerusalem, Israel; M.S., London School of Economics, (United Kingdom), Ph.D., Princeton University

Jacobson, Dean L. (1974), Professor Emeritus of Materials Science and Engineering, B.S., M.S., University of Notre Dame; Ph.D., University of California, Los Angeles

Jacobson, Diana L. (1996), Faculty Associate of Nursing, B.S.N., University of Arizona, M.S., Arizona State University

Jain, Nemi C. 1976, Professor of Communication; B.S., M.S., Agra University (India), Ph.D., Michigan State University

Jakob, John H. (196), Professor Emeritus of Architecture, B.Arch., Ohio State University, M.S. Arch., Columbia University

James, Melissa A., SSG 2000, Instructor of Military Science, A.A., Kansas State University

James, Steven R. (1995), Adjunct Professor of Anthropology, B.A., University of California, Berkeley; M.A., University of Utah, Ph.D., Arizona State University

Jankowski, Daniel F. 1964, Professor of Mechanical and Aerospace Engineering; Director, Engineering Core and Special Studies, Director, School of Engineering, Associate Dean Academic Affairs, College of Engineering and Applied Sciences, B.S.E., M.S.E., Ph.D., University of Michigan

Janssen, James G. 1968, Professor Emeritus of English, B.A., M.A., Marquette University, Ph.D., University of Wisconsin, Madison

Jasper, Marcia A. (1976–86, 1993), Clinical Associate Professor of Nursing, B.S.N., Saint Olaf College; M.S., Arizona State University

Jelinek, James 1953, Professor Emeritus of Education, B.S., University of Illinois, M.A., Northwestern University, Ed.D., Indiana University, Bloomington

Jenkins, William 1979, Associate Professor of Art, B.A., Saint Lawrence University, M.F.A., State University of New York, Buffalo

Jennings, Marianne M. 19, Professor of Legal and Ethical Studies, B.S., J.D., Brigham Young University

Jiang, Nan 2000, Associate Research Scientist of Physics and Astronomy, B.Sc., Jilin University (China), M.S., Chinese Science Academy (China), Ph.D., University of Birmingham (United Kingdom)

Joehnk, Michael D. (1957), Professor Emeritus of Finance, B.S., University of Arizona, M.B.A., Arizona State University, Ph.D., University of Arizona

Joganic, Edward F. 1996, Adjunct Professor of Speech and Hearing Science; B.S., M.D., M.S., University of Arizona

Johanson, Donald C. (1997), Professor of Anthropology; Director, Institute of Human Origins, B.A., University of Illinois, Urbana-Champaign, M.A., Ph.D., University of Chicago

Johnson, Alan P. 1967, Professor Emeritus of English, B.A., Amherst College; M.A., University of Michigan, Ph.D., University of Minnesota, Twin Cities

Johnson, Douglas A. 1974, Professor of Accountancy and Information Management, B.B.A., Ph.D., University of Texas; C.P.A., Texas

Johnson, John M. 1972, Professor of Justice Studies; B.A., Indiana University, Bloomington; M.A., San Diego State College; Ph.D., University of California, San Diego

Johnson, Linda Nelson (1985), Associate Professor of Design, B.A., M.A., Iowa State University

Johnson, Marysia 1997, Assistant Professor of English, B.A., Saint Francis College (Brooklyn), M.A., Monterey Institute of International Studies, Ph.D., Georgetown University

Johnson, Paul C. 1994, Associate Professor of Civil and Environmental Engineering, B.S., University of California, Davis, M.A., Ph.D., Princeton University

Johnson, Penelope M. (1995), Clinical Assistant Professor of Nursing; B.S., University of Colorado, M.S., Arizona State University

Johnson, Robert A. 1999, Adjunct Professor of Biology, B.S., M.S., University of Illinois (Urbana-Champaign), Ph.D., Arizona State University

- Johnson, Roy M.** 1952-53, 1955 Professor Emeritus of Microbiology, A.B., M.S., University of Chicago, Ph.D. University of New Mexico
- Johnson, Wendee** 1990, Clinical Assistant Professor of Nursing, B.S.N., Gustavus Adolphus College; M.S.N., University of Pennsylvania
- Johnson, William G.** 1990, Professor of Health Administration and Policy; B.S. University of Pennsylvania; M.A., Temple University, Ph.D., Rutgers, The State University of New Jersey
- Johnson, William S.** 1990, Executive Director, Division of Undergraduate Academic Services, B.A., Washington State University; M.S. Iowa State University; Ph.D., University of Southern California
- Johnston, Hubert** 1986, Clinical Associate Professional of Social Work, B.S., Cheyney State College; M.A., Central Michigan University; Ph.D., Cornell University
- Jones, Austin E.** (1968), Professor Emeritus of Psychology, B.A., University of Illinois, M.S., Purdue University, Ph.D., University of Rochester
- Jones, Daisy** 1963, Professor Emeritus of Education, B.S., M.S., Indiana State University, Ed.D., Indiana University, Bloomington
- Jones, Don** (1996), Assistant Professor of Mathematics; B.S. M.S. Georgia Institute of Technology; Ph.D., University of California, Irvine
- Jones, Elizabeth E. K.** 1996, Lecturer of Mathematics, B.S., M.A., University of Texas, Ph.D., Arizona State University
- Jones, Jennifer** 1999, Adjunct Professor of Anthropology, B.A. State University of New York, Binghamton, Ph.D., Arizona State University
- Jones, John** 1990, Associate Professor of Mathematics, Associate Chair Undergraduate Studies, A.B. University of California Berkeley, Ph.D., Harvard University
- Jones, Marion K.** (1970), Professor Emeritus of Dance, B.A., Wayne State University; M.A., Arizona State University
- Jones, Owen D.** 1994, Professor of Law, B.A., Amherst College, J.D., Yale University
- Jones, Ruth S.** 1981, Professor of Political Science; Executive Assistant of University Programs, B.S., Indiana State University, M.A., Ph.D., Georgetown University
- Jonsson, Hjorleifur** 1999, Assistant Professor of Anthropology, B.A., University of Iceland (Iceland); M.A., University of Iowa, M.A., Ph.D., Cornell University
- Joo, Youngjoong** 2001, Assistant Professor of Electrical Engineering; B.S., M.S., Korea University (South Korea), Ph.D., Georgia Institute of Technology
- Jordan, K. Forbis** 1987, Professor Emeritus of Educational Administration and Supervision; A.B., M.A., Western Kentucky State College; Ed.D., Indiana University
- Joshi, Lokesh** 2000, Assistant Research Professor of Plant Biology, B.S., M.S., University of Rajasthan (India), Ph.D., University of Bath (United Kingdom)
- Joyal, Elaine** 1998, Adjunct Professor of Anthropology, B.A., Antioch College, M.S., Oregon State University, Ph.D., Arizona State University
- Julian, Marti F.** (2001), Assistant Professor of Educational Technology, B.S., Northern Arizona University, M.Ed., Ph.D., University of Virginia
- Jurik, Nancy** 1981, Professor of Justice Studies, B.A., M.A., Southern Methodist University, Ph.D. University of California, Santa Barbara
- Justus, Jerry T.** 1968, Professor Emeritus of Biology, B.A., Franklin College; M.A., Ph.D., Indiana University, Bloomington
- Juvet, Richard S. Jr.** 1970, Professor Emeritus of Chemistry and Biochemistry; B.S., Ph.D., University of California, Los Angeles
- ## K
- Kadell, Kevin** 1981, Professor of Mathematics, B.A., California State University, Sacramento; M.A., University of Maryland, Ph.D., Pennsylvania State University
- Kader, David** 1979, Professor of Law, B.A. California State University, Fresno; J.D., University of Washington; LL.M., University of London (United Kingdom)
- Kagy, Virginia L.** 1947, Professor Emeritus of Family and Human Development, B.A. Drake University; M.S. Iowa State University, Ph.D., Johns Hopkins University
- Kahn, B. Winston** 1966, Associate Professor of History; B.A., National Taiwan University (Taiwan), M.A., University of Minnesota (Twin Cities), Ph.D., University of Pennsylvania
- Kahn, Kim F.** 1989, Associate Professor of Political Science; A.B., M.A., Ph.D., University of Michigan
- Kaida, Tamarra** (1980), Professor of Art; B.A., Goddard College; M.F.A., State University of New York, Buffalo
- Kajikawa, William M.** 1937, Professor Emeritus of Physical Education, B.A., M.A., Arizona State University
- Kalfus, Steve** (2000), Faculty Associate of Nursing; B.S.N., Arizona State University
- Kaliszewski, Steven** (1998), Assistant Professor of Mathematics; B.A., Saint Olaf College, M.A., Ph.D., Dartmouth College
- Kambhampati, Subbarao** 1991, Professor of Computer Science and Engineering (B.Tech. Indian Institute of Technology (India), M.S., Ph.D., University of Maryland, College Park
- Kamins, Martin P.** (1970), Professor Emeritus of Curriculum and Instruction, B.Ed., University of Miami, M.S., Florida State University, Ed.D., Wayne State University
- Kaminsky, Flijah Ben-Zion** (1962), Professor Emeritus of Political Science, A.B., A.M., Ph.D., Harvard University
- Kaminsky, Selina K.** 1988, Librarian Emeritus; B.Ed., University of Miami, M.A.L.S., University of Denver
- Kaplan, Robert G.** 1984, Professor of Dance, B.M.E., University of Hartford; M.M., Arizona State University
- Kaplan, Steven** 1981, Professor of Accountancy and Information Management, B.S. Arizona State University; M.A.S., Ph.D., University of Illinois
- Karady, George** (1986), Professor of Electrical Engineering, Salt River Project Chair, Diploma, Technical University, Budapest (Hungary), Candidate of Technical Sciences (Hungarian Academy of Science (Hungary), Ph.D., Budapest University for Technical Sciences (Hungary)
- Karam, Lina** (1995), Assistant Professor of Electrical Engineering; B.E., American University of Beirut (Lebanon), M.S. Ph.D., Georgia Institute of Technology
- Karjala, Dennis S.** 1978, Professor of Law, B.S.E., Princeton University, M.S., Ph.D., University of Illinois, J.D., University of California, Berkeley

- Karnes, Thomas L.** 1968, Professor Emeritus of History, A.B., Colorado University; A.M., Ph.D., Stanford University
- Karoly, Paul** 1982, Professor of Psychology, B.A., City College of New York; Ph.D., University of Rochester
- Karpman, Robert R.** 1970, Adjunct Professor of Engineering, B.A. LaSalle College, M.B.A., University of Phoenix; M.D., University of Pennsylvania
- Kashiwagi, Dean T.** 1972, Associate Professor of Construction; B.S. University of Hawaii, Manoa; M.S., Ph.D., Arizona State University
- Kastenbaum, Beatrice** 1982, Clinical Associate Professor of Nursing; B.S.N. University of Michigan; M.S.N., Wayne State University
- Kastenbaum, Robert J.** 1951, Professor Emeritus of Gerontology and Communication; B.A., Long Beach State College; Ph.D., University of Southern California
- Katz, Richard C.** 1991, Adjunct Professor of Speech and Hearing Science; B.A., M.A., University of Massachusetts; Ph.D., University of Florida
- Katzman, Elaine Menter** 1953, Professor Emeritus of Nursing; B.S., M.S., Ph.D., Syracuse University
- Kaufman, Herbert M.** 1975, Professor of Finance, Chair, Department of Finance; B.A., State University of New York; B.S., Ph.D., Pennsylvania State University
- Kaufman, Irving** 1967, Professor Emeritus of Electrical Engineering; B.E., Vanderbilt University; M.S., Ph.D., University of Illinois
- Kaufmann, William B.** 1968, Professor of Physics and Astronomy; A.B., M.A., Ph.D., University of California, Berkeley
- Kawski, Matthias** 1955, Professor of Mathematics; Ph.D., University of Colorado
- Kaye, David H.** 1976, Recent Professor of Law; B.S., Massachusetts Institute of Technology; M.A., Harvard University; J.D., Yale University
- Kazilek, Charles J.** 1985, Senior Research Professor of Biology; B.F.A., M.N.S., Arizona State University
- Kazmier, Leonard J.** 1965, Professor Emeritus of Economics; B.A., M.A., Wayne State University; Ph.D., Ohio State University
- Kearney, James R. III** 1968, Professor Emeritus of History; B.A., Penna College; M.A., Washington University; Ph.D., University of Wisconsin, Madison
- Keating, Thomas** 1972, Associate Professor of Political Science; B.A., M.A., California State University, Sacramento; M.P.A., Ph.D., Indiana University
- Keats, Barbara W.** 1954, Associate Professor of Management; B.A., Louisiana Tech; M.S., North Louisiana University; Ph.D., Oklahoma State University
- Keats, J. Bert** 1954, Professor Emeritus of Industrial Engineering; B.S.I.E., Lehigh University; M.S., Ph.D., Florida State University; Ph.D., Oklahoma State University
- Keefer, Donald L.** 1987, Associate Professor of Supply Chain Management; B.S., Carnegie Mellon University; M.S., Stanford University; M.S., Ph.D., University of Michigan
- Kehl, Delmar G.** 1965, Professor of English; B.A., Bob Jones University; M.S., University of Wisconsin, Madison; Ph.D., University of Southern California
- Keim, Robert T.** 1979, Associate Professor of Computer Information Systems; B.S., M.B.A., Ph.D., University of Pittsburgh
- Keith, Marlow F.** 1946, Professor Emeritus of Technology; B.A., M.A., Arizona State University
- Keith, Verna M.** 1991, Associate Professor of Sociology, Chair, Department of Sociology; B.S., University of Central Arkansas; M.A., Ph.D., University of Kentucky
- Keller, Gary D.** 1986, Regents' Professor of Spanish; Interim Director, Hispanic Research Center; B.A., University of the Americas, Mexico; M.A., New School for Social Research; M.A., Ph.D., Columbia University
- Keller, Thomas** 1981, Associate Professor of Management; B.Ed., M.Ed., Ed. Spec., Ed.D., University of Toledo
- Kelly, John B.** 1962, Professor Emeritus of Mathematics; B.A., Columbia University; Ph.D., Massachusetts Institute of Technology
- Kelly, Richard W.** 1965, Professor Emeritus of Electrical Engineering; B.S.E., M.S.E., Ph.D., University of Iowa
- Kelly, Rob Roy** 1953, Professor Emeritus of Art; B.F.A., Minneapolis School of Art; M.F.A., Yale University
- Kennedy, Thomas D.** 1974, Professor Emeritus of Justice Studies; B.A., Tuane University; M.A., Ph.D., Louisiana State University; Bachelor Degree
- Kenney, Janet W.** 1958, Professor Emeritus of Nursing; B.S., Alfred University; M.S., Boston University; Ph.D., State University of New York, Buffalo
- Kenney, Patrick J.** 1986, Associate Professor of Political Science; B.A., M.A.P.A., Ph.D., University of Iowa
- Kenrick, Douglas T.** 1980, Professor of Psychology; B.A., DeWitt College; M.A., Ph.D., Arizona State University
- Kerr, Barbara A.** 1991, Professor of Counselor Education and Counseling Psychology; A.B., University of Missouri; M.A., Ohio State University; Ph.D., University of Missouri
- Kerr, LuAnn** 2000, Faculty Associate of Nursing; B.S.N., M.S.N., University of Arizona
- Kerr, Nancy J.** 1967, Professor Emeritus of Education; B.S., University of Illinois; M.A., Ph.D., University of Houston
- Kettner, Peter M.** (1979), Professor of Social Work; B.A., Valparaiso University; M.S.W., Washington University; D.S.W., University of Southern California
- Keuter, Clifford D.** 1985, Professor of Dance
- Keivane, Clement J.** 1956, Professor Emeritus of Physics and Astronomy; B.S., Ph.D., Iowa State University
- Khoo, Siek-Toon** 1991, Assistant Professor of Psychology; B.Sc., University of Canterbury, New Zealand; M.Ed.St., Monash University, Australia; Ph.D., University of California, Los Angeles
- Kidd, Pamela** 2000, Professor of Nursing, Associate Dean for Graduate Programs and Research; B.S., University of Kentucky; M.S., University of Cincinnati; Ph.D., University of Arizona
- Kierstead, Henry A.** (1988), Professor of Mathematics; B.A., M.A., Ph.D., University of California, San Diego
- Kiesow, Milton A.** 1957, Professor Emeritus of Education; B.S., University of Wisconsin; M.A., Ph.D., University of Nebraska, Lincoln
- Kigin, Denis J.** 1958-65, 1967, Professor Emeritus of Technology; Dean Emeritus, Continuing Education and Summer Sessions; B.S., Mankato State University; M.S., University of Wisconsin; St. ut, Ed.D., University of Missouri

- Kihl, Mary** 1996, Professor of Planning and Landscape Architecture. Associate Dean, College of Architecture and Environmental Design, Director, Heberger Center for Design Excellence. A.B. Juniata College, M.U.R.P., University of Pittsburgh. M.A. University of Michigan, Ph.D., Pennsylvania State University
- Killeen, Mary** 1982-84; 1986, Associate Professor of Nursing; Associate Dean for Undergraduate Programs and Extended Education, College of Nursing, B.S.N., M.S., Arizona State University. Ph.D., University of Texas, Austin
- Killeen, Peter R.** 1968, Professor of Psychology. B.S., Michigan State University, Ph.D., Harvard University
- Kim, Bruce** (2000), Associate Professor of Electrical Engineering, B.S., University of California, Irvine, M.S., University of Arizona. Ph.D., Georgia Institute of Technology
- Kim, Joochul** 1980, Associate Professor of Planning and Landscape Architecture, B.A., University of California, Berkeley; M.U.P., Ph.D., University of Michigan
- Kim, Moon J.** 1990, Associate Research Scientist Center for Solid State Science; M.S., Ph.D., Arizona State University
- Kimball, Bruce A.** 1988, Adjunct Professor of Plant Biology. B.S., University of Minnesota. M.S., Iowa State University, Ph.D., Cornell University
- Kimbel, William H.** 1997, Associate Professor of Anthropology, Science Director, Institute of Human Origins. B.A., Case Western Reserve University, Ph.D., Kent State University
- Kimler, Stephen J.** 1967, Professor Emeritus of Education, B.Ed., Milwaukee State Teachers College, M.Ed., Marquette University, Ed.D., Arizona State University
- King, Tracy** (1998), Faculty Associate of Nursing, B.S.N., M.S., Arizona State University
- Kingsbury, Warren T.** 1964, Professor Emeritus of Education, A.B., Central College, A.M., University of Missouri; Ed.D., New York University
- Kingston, Jerry L.** 1969, Professor of Economics, ICA Faculty Representative, B.A.E., Wayne State College; M.S., Colorado State University, Ph.D., Pennsylvania State University
- Kinicki, Angelo J.** 1982, Professor of Management, B.B.A., M.B.A., D.B.A., Kent State University
- Kinnier, Richard** 1982, Professor of Counseling Psychology and Counselor Education, B.A., Boston College. Ed.M., Columbia University. Ph.D., Stanford University
- Kintigh, Keith W.** 1987, Professor of Anthropology. A.B., M.S., Stanford University, Ph.D., University of Michigan
- Kinzig, Ann P.** (1998), Assistant Professor of Biology, B.S., University of Illinois Urbana-Champaign, M.S., Ph.D., University of California, Berkeley
- Kipke, Daryl R.** 1992, Associate Professor of Biotechnology, B.S.E., M.S., M.S.E., Ph.D., University of Michigan, Ann Arbor
- Kirkman-Liff, Bradford L.** 1981, Professor of Health Administration and Policy, B.S., M.S., Carnegie Mellon University, Dr.P.H., University of North Carolina-Chapel Hill
- Kirkwood, Craig W.** 1983, Professor of Supply Chain Management. S.B., S.M., E.E., Ph.D., Massachusetts Institute of Technology
- Kisielewski, Robert V.** 1975, Professor Emeritus of Technology, B.S.M.E., M.S.M.E., University of Wisconsin, Madison
- Klann, Margaret L.** 1945, Professor Emeritus of Physical Education, B.S., University of Illinois. M.A., University of Northern Colorado
- Klein, James D.** 1988, Professor of Educational Technology, Interim Training Director, Educational Technology, B.A., Florida Atlantic University. M.S., Ph.D., Florida State University
- Kleinfeld, Gerald R.** (1962), Professor of History; B.A., New York University; M.A., University of Michigan, Ph.D., New York University
- Klett, Mark C.** 1982, Professor of Art. B.S., Saint Lawrence University, M.F.A., State University of New York-Buffalo
- Kliewer-Britton, Darleen** (1975), Professor of Music, B.M.E. Bethany College; M.M., Wichita State University
- Klock, John W.** 1960, Professor Emeritus of Civil Engineering; B.E., University of Southern California, M.S., Ph.D., University of California-Berkeley
- Klopatek, Carole Coe** (1997), Assistant Research Professor of Microbiology; B.S., Ph.D., Arizona State University
- Klopatek, Jeffrey M.** 1981, Professor of Plant Biology, B.S., M.S., University of Wisconsin-Milwaukee; Ph.D., Cornell University
- Knapp, Margaret M.** 1991, Professor of Theatre. B.A., LeMoyne College. M.A., Ph.D., City University of New York
- Knaupp, Jonathan E.** 1970, Professor Emeritus of Elementary Education. B.S., Oregon State University, M.A., Ph.D., University of Illinois
- Knauth, L. Paul** 1979, Professor of Geological Sciences, B.A., University of Chicago, Ph.D., California Institute of Technology
- Knight, Donald O.** 1981, Professor Emeritus of Industrial Engineering. B.E.E., Marquette University, M.S.E., Ph.D., Arizona State University
- Knight, George P.** 1986, Professor of Psychology, B.A., Macalester College, M.A., Ph.D., University of California, Riverside
- Knight, Leland W.** 1978, Professor Emeritus of Design; B.P.A., Art Center College of Design; M.F.A., Stanford University
- Knipping, Uwe Fred** 1988, Associate Research Professional of Physics and Astronomy, B.Sc., University of Cologne, Germany
- Knowlton, John F.** 1964, Professor Emeritus of Spanish; B.A. Lewis and Clark College; M.A., Ph.D., University of Oregon
- Knox, Robert L.** (1963), Professor Emeritus of Economics; B.S., M.S., Oklahoma State University; Ph.D., University of North Carolina
- Knudsen, Frances S.** 1964, Professor Emeritus of Nursing, B.S., University of Arizona; M.S., University of Colorado; Ph.D., Arizona State University
- Knutson, Kraig** (1997), Assistant Professor of Construction, B.S., M.S., Ph.D., Arizona State University
- Knutson-Woods, Teri** 1997, Academic Professional of Social Work, B.A., Grand Canyon University, M.S.W., Arizona State University
- Kobes, Bernard W.** 1986, Associate Professor of Philosophy, B.A., Calvin College. M.A., Ph.D., University of California, Los Angeles
- Koblitz, Ann Hibner** (1988), Professor of Women's Studies, A.B. Princeton University, Ph.D., Boston University

- Koeneman, James B.** (1984), Adjunct Professor of Bioengineering B.S., University of Minnesota, M.S., Ph.D., Case Western Reserve University
- Koerner, Kurt J.** (1993), Faculty Associate of Construction B.S., U.S. Air Force Academy; M.S., Golden Gate University
- Koka, Balaji** (1999), Assistant Professor of Management, B.E., Madurai Kamaraj University India; M.B.A., Indian Institute of Management, Calcutta (India); Ph.D., University of Pittsburgh
- Kolossa, Katalin** (1994), Senior Lecturer of Mathematics, B.A., Eotvos University (Hungary); M.A., Ph.D., Arizona State University
- Kommenich, Pauline** (1984), Associate Professor of Nursing Chair, Division of Community Health Psychology Nursing Systems B.S., Stanford University, M.N. University of Washington, M.A., Ph.D. University of Arizona
- Konjevod, Goran** (2000), Assistant Professor of Computer Science and Engineering B.Sc., University of Zagreb Croatia; M.Sc., Ph.D., Carnegie Mellon University
- Konomos, Philip J.** (1991), Associate Learning Research Specialist Library Instruction, Systems, and Technology B.S., M.Ed., Arizona State University
- Koonce, Frank W.** (1978), Professor of Music, B.M., North Carolina School of the Arts, M.M., Southern Methodist University
- Kopta, Anne Elgar** (1999), Associate Professor of Music
- Kortman, Sharon A.** (1998), Lecturer of Curriculum and Instruction, B.A., M.Ed., Ed.D. Arizona State University
- Koshinsky, Deborah H.** (2000), Associate Librarian, Architecture and Environmental Design Library; Head Architecture and Environmental Design Library B.A., Ohio State University, M.L.I.S., Simmons College
- Koss-Chioino, Joan D.** (1992), Professor of Anthropology, B.F.A., Temple University, M.A., Ph.D., University of Pennsylvania
- Kostelich, Eric** (1989), Professor of Mathematics B.S. University of North Carolina; M.S., Ph.D., University of Maryland, College Park
- Kouris, Demetris A.** (1987), Associate Professor of Engineering, Diploma in Civil Engineering, National Technical University of Athens Greece; M.S., Illinois Institute of Technology, Ph.D. Northwestern University
- Kouvetakis, John** (1992), Associate Professor of Chemistry and Biochemistry; B.S., Ph.D., University of California, Berkeley
- Kozacik, Dorothy Piercey** (1968), Professor Emeritus of Education, B.A., College of St. Francis, M.A., Arizona State University, Ph.D., University of Arizona
- Kozicki, Michael** (1986), Professor of Electrical Engineering, Director, Center for Solid State Electronics Research, B.S., Ph.D., University of Edinburgh United Kingdom
- Krahenbuhl, Gary S.** (1973), Professor of Exercise Science and Physical Education, Senior Vice President; B.S., M.S., Northern Illinois University; Ed.D. University of Northern Colorado
- Krajcinovic, Dusan** (1989), Professor of Engineering; B.Sc., M.Sc., University of Belgrade Yugoslavia; Ph.D., Northwestern University
- Krause, Daniel R.** (2000), Assistant Professor of Supply Chain Management, B.A., Fort Lewis College, M.B.A., Ph.D. Arizona State University
- Krause, Stephen J.** (1981), Professor of Material Science and Engineering, B.S. Northwestern University; M.S., Illinois Institute of Technology, Ph.D. University of Michigan
- Kreitner, Robert J. III** (1975), Senior Lecturer of Management, B.S., M.B.A., University of Nebraska, Omaha, Ph.D., University of Nebraska Lincoln
- Krinsley, David** (1976), Professor Emeritus of Geological Sciences, Ph.B., S.B., S.M., Ph.D., University of Chicago
- Kroeger, Michael** (1997), Faculty Associate of Design; M.F.A. Rhode Island School of Design
- Kroelinger, Michael D.** (1980), Professor of Design, B.S., University of Alabama, M.S., Ph.D., University of Tennessee, Knoxville
- Kroloff, Reed A.** (1987), Associate Professor of Architecture, B.A., Yale University; M.Arch. University of Texas Austin
- Kronenfeld, Jennie J.** (1990), Professor of Sociology, B.A., University of North Carolina, Chapel Hill, M.A., Ph.D., Brown University
- Krueger, Janelle** (1984), Professor Emeritus of Nursing Dean Emeritus, College of Nursing, B.S., M.S., Ph.D., University of Colorado
- Krus, David J.** (1975), Professor of Psychology in Education, B.A., M.A., Charles University, Ph.D., University of Minnesota, Twin Cities
- Krutz, Glen** (1999), Assistant Professor of Political Science, B.A., M.P.A., University of Nevada; Ph.D., Texas A&M University
- Krzys, Katherine J.** (1990), Associate Archivist, Special Collections; B.A., California State University, Hayward, M.F.A., Arizona State University
- Kuang, Yang** (1988), Professor of Mathematics, B.S., University of Science and Technology China; Ph.D., University of Alberta Canada
- Kuby, Lauren H.** (1995), Academic Associate, Community Liaison; B.A., University of Chicago M.A., Arizona State University
- Kuby, Michael** (1988), Associate Professor of Geography, B.A., University of Chicago, Ph.D., Boston University
- Kuester, James L.** (1969), Professor Emeritus of Chemical Engineering B.S., University of Texas, Austin, M.E., Ph.D., Texas A&M University
- Kugelmass, Jack** (1998), Professor of Interdisciplinary Humanities, B.A. McGill University Canada, M.A., Ph.D., New School for Social Research
- Kuiper, Hendrik J.** (1971), Professor of Mathematics, B.S., University of Wisconsin, Milwaukee, M.S., M.A., Ph.D., University of Wisconsin, Madison
- Kulhavy, Raymond W.** (1971), Regents' Professor of Educational Psychology, Interim Training Director, School Psychology, B.A., M.A., California State College, San Diego, Ph.D., University of Illinois
- Kulik, Carol** (1997), Professor of Management, B.S., Ph.D., University of Illinois, Urbana Champaign
- Kulis, Stephen** (1984), Professor of Sociology; B.A., George Washington University, M.A., Ph.D., Columbia University

Kulkarni, Uday R. (1988). Associate Professor of Computer Information Systems, B.Tech., Indian Institute of Technology India, M.B.A. Indian Institute of Management, Calcutta, India; Ph.D., University of Wisconsin, Milwaukee

Kumar, Ajith (1991), Professor of Marketing, B.S., Indian Institute of Technology India, Postgraduate Diploma, Indian Institute of Management, India; Ph.D., University of Massachusetts

Kumar, Sudhir (1998), Assistant Professor of Biology, B.S., M.S., Birla Institute of Technology and Science, India; Ph.D., Pennsylvania State University

Kuo, Chen-Yuan (1986), Associate Professor of Engineering, B.S., National Taiwan University (Taiwan), M.S., Northwestern University, Ph.D., University of California, Berkeley

Kupper, Eugene (1996), Associate Professor of Architecture, B.Arch., University of California, Berkeley, M.Arch., Yale University

Kurtz, Lynn C. (1967), Associate Professor of Mathematics, B.S., South Dakota School of Mines and Technology, M.S., Ph.D., University of Utah

L

La Valley, Mary (2010), Faculty Associate of Nursing, B.A., Rhode Island College, M.S., Northeastern University

Laananen, David (1983), Professor of Mechanical and Aerospace Engineering; B.S., Worcester Polytechnic Institute; M.S., Ph.D., Northeastern University

Laetz, Hans G. (1964), Professor Emeritus of German; B.A., University of California, Berkeley, M.A., Ph.D., Stanford University

LaFaro, Lydia E. (1988), Librarian, Team Leader, Hayde Reference Services, B.S., Georgetown University, M.L.S., Emory University

Lafford, Barbara (1980), Associate Professor of Spanish, Associate Dean, College of Extended Education, B.A., Middlebury College, M.A., Ph.D., Cornell University

Lafford, Peter A. (1989), Associate Research Professional of Languages and Literatures; Director, Language Computing Laboratory, B.A., Cornell University, M.A., Arizona State University, M.A., Middlebury College

Lage, Chiara (1998), Lecturer of Italian, G.A. Farina, Teacher's College, Vicenza (Italy), Laurea, University of Study of Urbino (Italy)

Lai, Richard T. (1973), Professor of Planning and Landscape Architecture, A.B., M.F.A., Princeton University; Ph.D., University of Pennsylvania

Lai, Ying-Cheng (1999), Associate Professor of Mathematics and Electrical Engineering, B.S., M.S., Zhejiang University, China; Ph.D., University of Maryland, College Park

Lake, Robert L. (1958), Professor Emeritus of Mathematics, B.S., South Dakota School of Mines and Technology; M.A., Arizona State University

Lamorey, Suzanne G. (1998), Assistant Professor of Curriculum and Instruction; B.A., University of California, Berkeley, M.S., Arizona State University, Ph.D., University of Oregon

Lan, Zhiyong (1991), Associate Professor of Public Affairs, B.A., Nanjing University, China; M.P.A., North Carolina State University, Raleigh; Ph.D., Syracuse University

Landeira, Ricardo L. (1962), Professor Emeritus of Spanish, Bachiller Universitario, University of Santiago, Spain; Maestro Nacional, Norma School of Santiago, Spain; Ph.D., University of Colorado

Landers, Daniel M. (1981), Regents' Professor of Exercise Science and Physical Education, Undergraduate Advisor; B.S., State University of New York, Brockport, M.S., University of Illinois

Landers, Donna M. (1988), Senior Lecturer of Exercise Science and Physical Education, Undergraduate Advisor; B.S., State University of New York, Brockport, M.S., University of Washington

Landrum, Leslie R. (1986), Herbarium Curator of Plant Biology, B.S., Syracuse University; M.S., Ph.D., University of Michigan

Lane, Peter (1998), Assistant Professor of Management, B.S., University of New Hampshire, M.B.A., University of Massachusetts, Ph.D., University of Connecticut

Laner, Mary R. (1976), Professor of Sociology, A.B., University of Chicago, M.A., University of New Mexico, Ph.D., Virginia Polytechnic Institute and State University

Langdon, Debra Seaman (2000), Senior Lecturer of Supply Chain Management, Recruitment Director, B.A., Loretto Heights College; M.B.A., University of Denver

Langland, Jeff (1995), Assistant Research Professor of Microbiology; B.S., Ph.D., Arizona State University

Lanyon, Richard I. (1975), Professor of Psychology, B.E., University of Adelaide (Australia), M.A., Ph.D., University of Iowa

Larimer, John W. (1969), Professor of Geological Sciences, B.A., M.S., Ph.D., Lehigh University

Larsen, Larissa (2000), Assistant Professor of Planning and Landscape Architecture, B.L.A., M.L.A., University of Guelph, Canada; Ph.D., University of Illinois

Larson, Nancy C. (1999), Assistant Professor of Social Work, B.A., Human Services, Western Washington University; M.S.W., Ph.D., University of Washington

Larson-Bennett, Donna Rae (1972), Law Librarian Emeritus; B.A., M.A., M.L.S., University of Michigan

Lastovicka, John L. (1992), Professor of Marketing; B.S., M.S., Ph.D., University of Illinois

Lauderdale, Pat (1981), Professor of Justice Studies, B.A., University of Oklahoma, M.A., University of Texas, Austin, M.A., Ph.D., Stanford University

Lavrin, Asuncion (1995), Professor of History, B.A., University of Havana, M.A., Radcliffe College; Ph.D., Harvard University

Lawson, Anton E. (1977), Professor of Biology; B.S., University of Arizona, M.A., University of Oregon, Ph.D., University of Oklahoma

Le, Thuy Kim Pham (1997), Instructor of Vietnamese, B.A., Saigon University, Vietnam; B.A., M.Ed., Arizona State University

Leathers, Chester R. (1957), Professor Emeritus of Microbiology, B.S., Eastern Illinois University, M.S., Ph.D., University of Michigan

Lebed, Richard F. (2010), Assistant Professor of Physics and Astronomy, B.S., Michigan State University, M.A., Ph.D., University of California, Berkeley

- Leclerc, Denis** 1994, Assistant Professor of Recreation Management and Tourism Deug., University of Upper Normandy, M.S., Ph.D., Arizona State University
- LeCroy, Craig** 1992, Professor of Social Work; B.S.W., San Jose State University, M.S.W. Western Michigan University, Ph.D., University of Wisconsin
- Lee, James J.** 1995, Adjunct Faculty of Microbiology, B.S., State University of New York, Stony Brook, Ph.D., California Institute of Technology
- Lee, Nancy A.** 1995, Adjunct Faculty of Microbiology B.S., Memphis State University; Ph.D. Cornell University
- Lee, Tae-woo** (1993), Associate Professor of Mechanical and Aerospace Engineering, B.S., Ohio State University, M.S.E., Ph.D., University of Michigan
- Lee, Yann-Hang** (2000), Professor of Computer Science and Engineering, B.S., National Cheng Kung University Taiwan, M.S., Rensselaer Polytechnic Institute; Ph.D., University of Michigan
- Lefevre, Mary Anne** 1990, Clinical Assistant Professor of Clinical Laboratory Sciences; B.S., Arizona State University, M.A., Central Michigan University
- Lehman, James P.** 1985, Associate Research Professional of Chemistry and Biochemistry, B.S. M.S., Miami University, Ph.D., University of Cincinnati
- Lehman, Peter** (1999), Professor of Interdisciplinary Humanities; B.S., M.A., Ph.D., University of Wisconsin, Madison
- Leibold, Anne M.** 1977, Librarian Emeritus, M.A., University of Paris (France)
- Leigh, Frederic A.** 1979, Senior Administrative Professional and Clinical Professor of Journalism and Telecommunication, B.A., University of South Dakota; M.A., University of Iowa Ed.D., Arizona State University
- Leighninger, Leslie** 2000, Professor of Social Work; Director, School of Social Work; B.A., Oberlin College, M.S.W., Syracuse University; D.S.W., University of California, Berkeley
- Leinenweber, Kurt** (1994), Assistant Research Professional of Chemistry and Biochemistry, B.S. Brown University; Ph.D., Princeton University
- Lentz, Richard G.** (1985), Associate Professor of Journalism and Telecommunication; A.B., University of North Alabama, M.A., Southern Illinois University, Carbondale, Ph.D., University of Iowa
- Leon, Luis Daniel** 1999, Assistant Professor of Religious Studies, A.B., University of California, Berkeley; M.T.S., Harvard University; Ph.D., University of California, Santa Barbara
- Leonard, Donald J.** 1974, Associate Professor of Management Communication; B.S., M.B.A., Nicholls State University; Ph.D., Louisiana State University
- Leonard, Philip A.** 1968, Professor of Mathematics, A.B., Boston College, M.A., Ph.D., Pennsylvania State University
- Leong, Karen** (1999), Assistant Professor of Women's Studies, A.B., M.A., Ph.D., University of California Berkeley
- Lersch, Judy** (1999), Faculty Associate of Nursing; B.S.N., University of Arizona; M.Ed., Northern Arizona University, M.S. Arizona State University
- Lerum, Vidar** (2000), Assistant Professor of Architecture; B.Arch., Norwegian Institute of Technology, Trondheim Norway; M.S., Arizona State University, Ph.D., Norwegian University of Science and Technology Trondheim Norway
- Leshin, Laurie** 1993, Assistant Professor of Geological Sciences B.S., Arizona State University M.S., Ph.D., California Institute of Technology
- Leshowitz, Barry H.** 1970, Associate Professor of Psychology; B.S., M.A., Brooklyn College, Ph.D., City University of New York
- Leshy, John D.** (1980), Professor of Law A.B., J.D., Harvard University
- Lessard, Elizabeth C.** (1969), Professor Emeritus of Dance, B.S. Georgia College, M.A., Ph.D. Texas Woman's University
- Lester, Neal** 1997, Professor of English; B.A., West Georgia College; M.A. Ph.D., Vanderbilt University
- Levan, Frederick D.** (1965), Professor Emeritus of Educational Administration and Supervision, B.S., M.Ed., Pennsylvania State University; Ed.D., Oklahoma State University
- Levine, Gustav** (1967), Professor Emeritus of Psychology; B.A., M.A., College of the City of New York; Ph.D., Columbia University
- Lewis, Charles F.** 1963, Research Specialist Emeritus, Center for Meteorite Studies, B.A., Adams State College
- Lewis, William E.** 1965, Professor of Computer Science and Engineering, Vice Provost for Information Technology B.S.E., Johns Hopkins University M.S., Ph.D., Northwestern University
- Leyba, Raul L.** (1970), Professor Emeritus of Social Work; B.A., Western New Mexico University; M.S.W. University of Denver
- Liddell, Paul A.** (1990), Assistant Research Professional of Chemistry and Biochemistry; B.Sc. Massey University New Zealand; Ph.D., Arizona State University
- Lightfoot, Marjorie J.** 1964, Professor of English; B.A., Brown University, M.A., Ph.D. Northwestern University
- Lin, Sheng H.** (1965), Regents' Professor Emeritus of Chemistry and Biochemistry; B.S., M.S., National Taiwan University Taiwan; Ph.D., University of Utah
- Lin, Su** (1997), Associate Research Professional of Chemistry and Biochemistry, B.A., Beijing Normal University, (China), Ph.D., University of Rochester
- Lind, Amy** (1997), Assistant Professor of Women's Studies; B.A., University of California, Santa Cruz, M.R.P., Ph.D., Cornell University
- Lindauer, Owen** 1989, Adjunct Professor of Anthropology; B.A., State University of New York, Binghamton, M.A., Ph.D., Arizona State University
- Linder, Darwyn E.** (1972), Professor of Psychology, Chair, Department of Psychology, B.A., Macalester College, Ph.D., University of Minnesota, Twin Cities
- Linderman, Earl W.** (1966), Professor Emeritus of Art, B.S., State University of New York, Buffalo; M.Ed., Ed.D., Pennsylvania State University
- Lindholm Lane, Katherine** 2000, Assistant Professor of Dance, B.S., Eastern Michigan University, M.F.A. Arizona State University
- Lindly, John M.** (1998), Adjunct Professor of Anthropology; B.A. M.A., Ph.D., Arizona State University
- Lindsay, Stuart M.** 1978, Professor of Physics and Astronomy, B.Sc., Ph.D., University of Manchester United Kingdom
- Lineberry, Heather S.** (1990), Senior Curator, University Art Museum, Associate Museum Professional B.A. M.A., University of Texas, Austin

- Liskovec, Richard F.** (1958), Professor Emeritus of Mathematics; B.S., M.A., Kent State University
- Liss, Julie M.** (1994), Associate Professor of Speech and Hearing Science; B.A., University of Wisconsin, Madison; M.A., University of Denver; Ph.D., University of Wisconsin, Madison
- Littlewood, Mary L.** (1965), Professor Emeritus of Health and Physical Education; B.S., Miami University; M.S., University of Colorado
- Liu, C.H.** (1965), Professor Emeritus of Chemistry and Biochemistry; B.A., Ph.D., University of Illinois
- Liu, Danny D.** (1982), Professor of Engineering; B.S., National Taiwan University, Taiwan; M.S., Georgia Institute of Technology; Ph.D., University of Southampton, United Kingdom
- Liu, Huan** (2000), Associate Professor of Computer Science and Engineering; B.Eng., Shanghai Jiao Tong University (China); M.Sc., Ph.D., University of Southern California
- Liu, Jingyue** (1990), Assistant Research Scientist, Center for Solid State Science, B.Sc., Beijing University of Science and Technology (China), Ph.D., Arizona State University
- Liu, Marjory Bon-Ray** (1973), Professor Emeritus of Philosophy; B.M., Alverno College; M.M., University of Southern California; C.Phil., Ph.D., University of California, Los Angeles
- Lo, Edisanter** (1990), Associate Research Professional of Geological Sciences; B.S., Louisiana Technology Institute; M.S., University of Arkansas; Ph.D., Arizona State University
- LoBrutto, Russell** (1991), Associate Research Scientist of Plant Biology; B.A., Cornell University; Ph.D., State University of New York, Buffalo
- Lock, Ethan** (1981), Associate Professor of Legal and Ethical Studies; B.A., University of California, Berkeley; M.B.A., Arizona State University; J.D., University of North Carolina, Chapel Hill
- Lockhart, Carol** (2000), Faculty Associate of Nursing; B.S., Case Western Reserve University; M.S., University of California, San Francisco
- Lockwood, Charles** (2000), Assistant Professor of Anthropology; B.S., Duke University; Ph.D., University of Witwatersrand, Johannesburg (South Africa)
- Lockwood, Ralph G.** (1972), Professor of Music; B.M., Baldwin Wallace College; M.M., New England Conservatory of Music
- Logan, Earl Jr.** (1963), Professor Emeritus of Mechanical and Aerospace Engineering; B.S., M.A., Arizona State University; B.S.M.E., M.S.M.E., Texas A&M University; Ph.D., Purdue University
- Lohr, Dennis E.** (1979), Professor of Chemistry and Biochemistry; B.S., Beloit College; Ph.D., University of North Carolina, Chapel Hill
- Lohr, Sharon** (1990), Professor of Mathematics; B.S., Calvin College; Ph.D., University of Wisconsin, Madison
- Lombardi, Eugene P.** (1957), Professor Emeritus of Music; B.Mus.Ed., Westminster College; M.A., Columbia University; Ed.S., George Peabody College; D.M., Westminster College
- Long, Carol O.** (1989), Assistant Professor of Nursing; B.S.N., Marquette University; M.S., University of Michigan; Ph.D., Arizona State University
- Longley, Kyle** (1995), Associate Professor of History; B.A., Angelo State University; M.A., Texas Tech; Ph.D., University of Kentucky
- Loope, R. Nicholas** (1999), Associate Professor of Architecture; B.Arch., University of Maryland, College Park; M.Arch., Yale University; Ph.D., Harvard University
- Lopez, Juan** (1998), Associate Professor of Mathematics; B.Sc., Ph.D., Monash University, Australia
- Lorson, Christian** (2010), Assistant Professor of Biology; B.A., Colorado College; Ph.D., University of Missouri Medical School
- Losse, Deborah N.** (1973), Professor of French, Associate Dean, Academic Programs, Graduate College; B.A., Connecticut College; M.A., Ph.D., University of North Carolina, Chapel Hill
- Lougeay, Ray** (1993), Adjunct Professor of Geography; B.A., Rutgers, The State University of New Jersey; M.S., Ph.D., University of Michigan
- Lounsbury, John F.** (1969), Professor Emeritus of Geography; B.S., M.S., University of Illinois; Ph.D., Northwestern University
- Loveless, Richard L.** (1991), Professor Emeritus of Art; M.Ed., Pennsylvania State University
- Low, Stuart A.** (1979), Professor of Economics; B.S., M.S., Ph.D., University of Illinois
- Lowe, John W.** (1956), Professor Emeritus of Economics; B.S., Arizona State University; M.S., University of Wisconsin, Madison; Ph.D., University of Florida
- Lowe, Robert W.** (1966), Professor Emeritus of Romance Languages; M.A., Columbia University; Doctorat, University of Paris, France
- Lowenthal, Gary T.** (1976), Professor of Law; A.B., Harvard College; J.D., University of Chicago
- Lu, Pao** (1964), Professor Emeritus of Physics and Astronomy; B.S., National Taiwan University, Taiwan; M.S., National Tsing Hua University (Taiwan); Ph.D., Iowa State University
- Luchsinger, Wayne W.** (1966), Professor Emeritus of Chemistry and Biochemistry; B.S., M.S., Ph.D., University of Minnesota, Twin Cities
- Luckingham, Bradford F.** (1971), Professor of History; B.S., Northern Arizona University; M.A., University of Missouri, Columbia; Ph.D., University of California, Davis
- Ludemann, Ruth S.** (1984), Professor Emeritus of Nursing; B.S.N., Columbia University; M.S.N., Wayne State University; Ph.D., Arizona State University
- Luderer, Gottfried W.R.** (1990), Professor Emeritus of Electrical Engineering; M.S.E.E., Ph.D., Technical University Braunschweig (Germany)
- Ludlow, Elizabeth A.** (1972), Professor Emeritus of Nursing; B.S.N., University of New Mexico; M.S., Arizona State University
- Ludwig, Ann** (1979), Professor of Dance; B.S., North Dakota State University; M.S., University of Kansas
- Luecken, Linda J.** (2000), Assistant Professor of Psychology; B.S., Ohio State University; M.A., University of North Carolina; Ph.D., Duke University
- Luenow, Paul F. Jr.** (1958), Professor Emeritus of Foreign Languages; B.A., M.A., University of Washington; Ph.D., University of New Mexico
- Luey, Beth** (1980), Senior Instructional Professional of History; Director, Scholarly Publishing; B.A., Radcliffe College; A.M., Harvard University

Lujan, Carol C. (1987), Associate Professor of Justice Studies Director American Indian Studies Program, B.A., M.A.P.A., Ph.D., University of New Mexico

Lukas, Ronald J. 1999, Adjunct Professor of Chemistry and Biochemistry, B.S. State University of New York, College of Cortland, Ph.D., State University of New York, Downstate Medical Center

Lund, Giuliana 1997, Assistant Professor of Interdisciplinary Humanities; B.A., Stanford University, M.A. Ph.D., University of Pennsylvania

Lundberg, Horace W. 1967, Professor Emeritus of Social Work, Dean Emeritus, School of Social Work, B.S., M.S., University of Utah, M.S.W., University of California Berkeley, Ph.D. University of Minnesota, Twin Cities

Lundgren, Harry R. 1962, Professor Emeritus of Civil and Environmental Engineering; B.S.C.E., Purdue University; M.S., Arizona State University, Ph.D., Oklahoma State University

Lundin, Robert F. 1962, Professor Emeritus of Geological Sciences, B.A. Augustana College, M.S., Ph.D., University of Illinois

Lussier, Mark S. 1994, Associate Professor of English, B.A., University of Saint Thomas; M.A., Ph.D., Texas A&M University

Lyman, Jeffrey 1996, Associate Professor of Music, B.Mus., Temple University; M.Mus., D.Mus., University of Michigan

Lynch, David H. 1976, Associate Professor of Management Communication; B.S. University of Illinois; M.S., Ed.D. Northern Illinois University

Lynch, John M. 1994, Lecturer of the Barrett Honors College; B.Sc., Ph.D., University College, Dublin; Ireland

Lynk, Myles 2000, Professor of Law, Kewitt Foundation Professor of the Legal Profession, A.B., J.D., Harvard University

Lyons, Lucy (1999), Assistant Librarian, B.A., San Diego State University, San Diego, M.A., Ohio State University, M.S., Pratt Institute

Lytle, Robert G. (1972), Professor Emeritus of Agribusiness and Resource Management, B.S., Western Kentucky University, M.S. Arizona State University

Lyubchenko, Yuri 199, Assistant Research Scientist of Biology, M.S., Ph.D., Moscow Institute of Physics and Technology, Russia

M

Maccracken, Harriet 1995, Senior Lecturer of Accountancy and Information Management, B.S., Ohio State University; M.A., Arizona State University

MacEachron, Ann 1984, Professor of Social Work, B.A. Cornell University, M.S.W., University of Pittsburgh; Ph.D., Cornell University

Macey, Donna J. 1994, Clinical Associate Professor of Educational Administration and Supervision, Academic Program Coordinator, Educational Administration and Supervision, B.A., DePaul University, M.A., St. John's College, M.A., M.S.T., University of Chicago, Ph.D., Northwestern University

Mackinnon, David 1990, Professor of Psychology; B.A., Harvard University, M.A., Ph.D., University of California, Los Angeles

Mackinnon, Stephen R. (1971), Professor of History, B.A., M.A., Yale University; Ph.D., University of California Davis

Mackulak, Gerald T. (1980), Associate Professor of Industrial Engineering; Executive Associate Chair, Department of Industrial Engineering; B.S.I.E., M.S.I.E., Ph.D., Purdue University

MacSwan, Jeff 1998, Assistant Professor of Curriculum and Instruction; B.A., M.A., California State University, Long Beach, Ph.D. University of California, Los Angeles

Madden, Dennis D. 199, Archivist Emeritus, B.A., Wright State University, M.A., Colorado State University

Madden-Derdich, Debra 1994, Assistant Professor of Family and Human Development, B.A., Washington and Jefferson College, M.A., Hillms College, Ph.D., Virginia Polytechnic Institute and State University

Maddox, Robert A. 1993, Adjunct Professor of Geography, B.S., Texas A&M University, M.S., Ph.D., Colorado State University

Maddy, Kenneth H. 198, Professor Emeritus of Agribusiness and Resource Management, B.S., Pennsylvania State University; M.S., University of Wisconsin-Madison, Ph.D., Pennsylvania State University

Magaña, Lisa 1977, Assistant Professor of Chicana and Chicano Studies, B.A., California Polytechnic University; M.A., Ph.D., Claremont Graduate School

Magenta, Muriel 1969, Professor of Art, B.A., Queens College; M.A., M.F.A., Ph.D., Arizona State University

Magers, William D. 1971, Professor Emeritus of Music; B.A., University of California, Santa Barbara; M.M., D.M.A. University of Southern California

Magill, Harry 1984, Professor Emeritus of Accountancy and Information Management; B.S., Miami University, M.S., University of Illinois

Mahajan, Subhash 1997, Professor of Chemical and Materials Engineering; Chair, Department of Chemical and Materials Engineering; B.S., Punjab University, India; B.E., Metallurgy, Indian Institute of Science, India; Ph.D., University of California, Berkeley

Mahalov, Alex S. (1971), Associate Professor of Mathematics; M.S., Leningrad University, Russia; Ph.D., Cornell University

Mahoney, Dhira B. (1989), Associate Professor of English, B.A., M.A., University of Oxford (United Kingdom); Ph.D., University of California Santa Barbara

Maienschein, Jane 1981, Professor of Philosophy and Biology, B.A., Yale University, M.A., Ph.D., Indiana University; Bloomington

Maisel, James (1955), Professor Emeritus of Electronics and Computer Engineering Technology, B.Eng. Sci., B.E.E., Fenn College, M.S.E.E., Ohio State University

Major, Roy C. 1992, Professor of English, B.A., University of Akron; M.A., University of Arizona; M.A., Ph.D., Ohio State University

Malloch, Kathy (1977), Faculty Associate of Nursing, B.S.N., Wayne State University; M.B.A., Oakland University, Ph.D., University of Colorado

Malone, Charles E. 1966, Professor Emeritus of Curriculum and Instruction; B.S., Emporia State University, M.Ed., Ed.D., University of Kansas

Maltz, Arnold B. 1997, Associate Professor of Supply Chain Management, B.S., Trinity College, Hartford; M.A. University of California, Santa Barbara; M.S., Northwestern University, Ph.D., Ohio State University

- Mamlouk, Michael S.** 1984, Professor of Civil and Environmental Engineering, B.S.C.E., Cairo University (Egypt), M.S.C.E., Ph.D., Purdue University
- Manchester, Laurie** (2000), Assistant Professor of History; B.A., Wellesley College, M.A., M.Phil., Ph.D., Columbia University
- Manelli, Alejandro** (1997), Professor of Economics, Licenciatura, National University of Buenos Aires (Argentina), M.A., Ph.D., University of California, Berkeley
- Manera, Elizabeth S.** 1967, Professor Emeritus of Curriculum and Instruction, B.S., M.A., Towson State College, Ed.D., Arizona State University
- Mangini, Margaret A.** (1990), Director, Bureau of Educational Research and Services (BERS), Director, Arizona Educational Information Systems (AEIS) B.S., M.Ed., Edinboro State College; Ed.D., Arizona State University
- Mankin, Lawrence D.** 1973, Professor of Public Affairs, B.B.A., City College, M.A., Ph.D., University of Illinois
- Marc, Stephen Smith** (1998), Associate Professor of Art, B.A., Pomona College; M.F.A., Temple University
- Marchant, Gary E.** 1999, Associate Professor of Law, B.Sc., University of British Columbia; M.P.P., J.D., Harvard University; Ph.D., University of British Columbia
- Margolis, Eric** 1995, Assistant Professor of Educational Leadership and Policy Studies, Academic Program Coordinator, Social and Philosophical Foundations of Education, B.A., State University of New York at New Paltz; Ph.D., University of Colorado, Boulder
- Marick, Josephine DeBortoli** 2000, Faculty Associate of Nursing; B.S., Carroll College of Montana, M.S.N., University of Wyoming, M.A., Chadron State College, Ed.D., University of Nebraska
- Marin, Christine N.** 1985, Associate Archivist, Archives and Manuscripts, B.A., M.A., Arizona State University
- Maris, Mariana** (2000), Lecturer of Mathematics, B.S., M.A., Arizona State University
- Markiw, Michael** (1990), Associate Librarian, Technical Services Department, B.A., University of Alberta, M.L.S., University of Western Ontario
- Marmont, Sabrina** 2000, Faculty Associate of Nursing, B.S., San Francisco State University, M.S., Arizona State University
- Marohnic, Charles S.** 1981, Professor of Music; Director, Jazz Studies, B.A., M.M., University of Miami
- Marrero, Robert** (1998), Adjunct Faculty of Microbiology; B.S., City College of New York; Ph.D., University of Maryland, Baltimore
- Marshall, Kimberly** (1998), Associate Professor of Music, B.A., University of North Carolina, Chapel Hill; D.Phil., University College, Oxford (United Kingdom)
- Marsiglia, Flavio F.** (1994), Associate Professor of Social Work; B.Law, S.S., M.S.W., University of the Republic (Uruguay), Ph.D., Case Western Reserve University
- Martin, Carol L.** (1988), Professor of Family and Human Development, B.A., University of Georgia; M.S., Rutgers, The State University of New Jersey; Ph.D., University of Georgia
- Martin, Chris A.** 1990, Associate Professor of Plant Biology, B.S., California Polytechnic State University and University of Southern California, M.S., Auburn University, Ph.D., University of Florida
- Martin, J. Spencer** (2000), Assistant Professor of Finance; B.S., M.B.A., University of Texas, Austin, A.M., Ph.D., University of Pennsylvania
- Martin, John F. Jr.** 1966, Professor of Anthropology; B.A., Beloit College, M.A., Ph.D., University of Chicago
- Martin, Judith N.** (1990), Professor of Communication; B.A., Eastern Mennonite College, M.A., Ph.D., Pennsylvania State University
- Martin, Linda J.** 1980, Professor Emeritus of Finance, B.A., University of Louisville; M.S., University of Kansas, M.B.A., D.B.A., Louisiana Technological University
- Martin, Philip E.** 1983, Professor of Exercise Science and Physical Education, Chair, Department of Exercise Science and Physical Education, B.S., M.S., University of Illinois, Ph.D., Pennsylvania State University
- Martin, Scott** (2000), Lecturer of Mathematics, B.S., University of Nebraska, Lincoln, M.A., University of Illinois, Springfield
- Martinez, Cathy L.** (1998), Assistant Professor of Recreation Management and Tourism; B.S., Arizona State University; M.S., Ph.D., Ohio State University
- Martinez, Jacqueline M.** (2000), Assistant Professor of Communication, M.S., Ph.D., Southern Illinois University
- Martinez, Jeanne L.** (2000), Lecturer of Spanish, B.A., Indiana University, South Bend, M.A.T., Indiana University, Bloomington
- Martínez, Quino E.** (1957), Professor Emeritus of Foreign Languages, B.S., New Mexico Western College; M.A., George Peabody College, Ph.D., University of North Carolina, Chapel Hill
- Martinez-Brawley, Emilia E.** (1992), Professor of Social Work, B.A., National University of Tucumán (Argentina), M.S.S., Bryn Mawr College; Ed.D., Temple University
- Marzke, Mary W.** (1978), Professor of Anthropology, B.A., University of California, M.A., Columbia University; Ph.D., University of California, Berkeley
- Marzke, Robert F.** 1969, Associate Professor of Physics and Astronomy, A.B., Princeton University, Ph.D., Columbia University
- Mason, Bruce B.** (1960), Professor Emeritus of Political Science, B.S., North Texas State College, M.A., Texas Christian University, Ph.D., University of Texas, Austin
- Mason, Elinor J.** (1999), Assistant Professor of Philosophy; Ph.D., Reading University (United Kingdom)
- Mason, Marshall W.** 1994, Professor of Theater, B.S., Northwestern University
- Mass, Diana** 1974, Clinical Professor of Clinical Laboratory Sciences; B.S., University of Texas, Austin; M.S., Central Michigan University
- Massey, Jessie L., Capt.** (1998), Assistant Professor of Military Science, B.A., Washington State University
- Massia, Stephen** (1998), Associate Professor of Bioengineering; B.S., Southwestern University; Ph.D., University of Texas
- Matera, Frances R.** 1989, Associate Professor of Journalism and Telecommunication, B.S., Florida International University, M.A., Goddard College, Ph.D., University of Miami
- Matheson, Alan A.** (1967), Professor of Law, B.A., M.S., J.D., University of Utah

- Mathy, Pamela A.** (1998). Clinical Professor of Speech and Hearing Science; Director, Clinical Services. B.A., University of Massachusetts; M.A., Washington State University; Ph.D., University of Wisconsin, Madison
- Matt, Kathleen S.** (1987). Associate Professor of Exercise Science and Physical Education; B.A., M.S., University of Delaware; Ph.D., University of Washington
- Matt, Pamela** (1980). Associate Professor of Dance; B.A., University of Washington; M.A., University of Illinois
- Matthews, James B.** (1989). Professor Emeritus of Aeronautical Management Technology; B.S., Rose-Hulman Institute of Technology; M.S., Massachusetts Institute of Technology; Ph.D., University of Arizona
- Matthews, Linda** (1997). Assistant Professor of Counselor Education and Counseling Psychology; B.A., University of California, Los Angeles; M.A., Ph.D., University of California, Santa Barbara
- Matthias, Judson S.** (1967). Professor Emeritus of Civil and Environmental Engineering; B.S., United States Military Academy; M.S., Oregon State University; Ph.D., Purdue University
- Mattox, John H.** (1995). Adjunct Professor of Biology; B.A., M.D., University of Colorado
- Mattson, Susan** (1993). Associate Professor of Nursing; B.S., M.A., M.S., California State University, Los Angeles; Ph.D., Claremont Graduate University
- Matyushov, Dimitry** (2000). Assistant Professor of Chemistry and Biochemistry; B.S., Moscow Institute of Physics and Technology, Russia; Ph.D., Vienna University of Technology (Austria)
- Maxwell, Katherine Davis** (1996). Faculty Associate of Nursing; B.S., University of Utah; M.S., Arizona State University
- Maxwell, Kathryn** (1988). Professor of Art; B.A., Northwestern University; M.F.A., University of Wisconsin, Madison
- May, Judy** (1986). Associate Professor of Music; M.M., The Juilliard School
- Mayer, James W.** (1992). Regents' Professor of Chemical and Materials Engineering; B.S., Ph.D., Purdue University
- Mayer, Lawrence S.** (1983). Professor of Statistics; B.S., M.S., Ohio State University; M.D., Associated Medical Schools of the Caribbean; Ph.D., Ohio State University
- Mayer, Michael** (1978). Associate Professor of Communication; B.A., M.A., University of Wyoming; Ph.D., University of Kansas
- Mayfield, Jack K.** (1990). Adjunct Professor of Engineering; A.B., Indiana University, Indianapolis; M.S., Medical College of Wisconsin; M.D., Indiana University, Indianapolis
- Mayo, Richard** (1999). Visiting Associate Professor of Construction; B.S., U.S. Military Academy; M.S., Rensselaer Polytechnic Institute; M.S.E., Purdue University; Ph.D., Stevens Institute
- Mays, Larry W.** (1989). Professor of Civil and Environmental Engineering; B.S., M.S., University of Missouri, Rolla; Ph.D., University of Illinois
- Mazurkiewicz, Orchid** (1996). Assistant Librarian, Hayden Reference Services; B.A., York University; M.A., M.L.S., University of Toronto (Canada)
- McBeath, Michael K.** (1998). Assistant Professor of Psychology; B.A., Brown University; M.S., University of California, Santa Barbara; Ph.D., Stanford University
- McBrien, Edward F.** (1986). Professor Emeritus of Electronic and Computer Engineering Technology; B.S.E., Fenn College; M.S.E.E., Cleveland State University
- McCabe, Barbara** (1997). Assistant Professor of Public Affairs; B.A., M.P.A., Florida Atlantic University; Ph.D., Florida State University
- McCarter, Joan H.** (1961). Associate Professor of Mathematics; B.S., M.A., University of Arizona
- McCarthy, Marianne** (1994). Associate Professor of Nursing; B.S.N., Mount Saint Mary College; M.S.N., Seton Hall University; Ph.D., University of California, San Francisco
- McCartney, Martha R.** (1989). Research Scientist, Center for Solid State Science; B.S., The Evergreen State College; Ph.D., Arizona State University
- McCormack, Brian** (2000). Lecturer, Division of Undergraduate Academic Services; Academic Coordinator, Bachelor of Interdisciplinary Studies Program; B.A., B.S., University of Nebraska-Omaha; B.A., Australian National University, Australia; M.A., Ph.D., Arizona State University
- McCoy, Janetta Mitchell** (1999). Assistant Professor of Design; B.L.S., St. Edwards University; M.S., Cornell University; Ph.D., University of Wisconsin, Milwaukee
- McCoy, Kathleen M.** (1976). Associate Professor of Curriculum and Instruction; B.S., University of Portland; M.S., Portland State University; Ph.D., University of Oregon
- McCoy, Ron** (1995). Professor of Architecture, Director, School of Architecture; B.S., University of Southern California; M.Arch., Princeton University
- McCready, Richard R.** (1961). Professor Emeritus of Accountancy and Information Management; B.S., Valley City State Teachers College; M.A., Ed.D., University of Northern Colorado
- McDermott, Lauren** (1990). Associate Professor of Design; B.F.A., M.F.A., Rochester Institute of Technology
- McDonald, Arlys** (1970). Librarian Emeritus; B.Mus., St. Mary of the Plains College; M.Mus., University of Illinois
- McDonald, John N.** (1969). Professor of Mathematics; A.B., King's College; M.S., Ph.D., Rutgers, The State University of New Jersey
- McDonald, Kelly M.** (2000). Assistant Instructional Professional of Communication, Director of Forensics; B.A., Pacific Lutheran University; M.A., Ph.D., University of Kansas
- McDonough, Peter** (1990). Professor of Political Science; B.S., Saint Louis University; Ph.D., University of Michigan
- McDowell, John M.** (1978). Professor of Economics; B.S., M.S., Ph.D., University of California, Los Angeles
- McEwen, Douglas R.** (1969). Professor Emeritus of Music; B.S., Bowling Green State University; M.M., Indiana University; Ed.D., University of Northern Colorado
- McFarland, Elaine H.** (1973). Professor Emeritus of Health Science; B.A., Marietta College; M.N., Case Western Reserve University
- McGaughey, Robert W.** (1971). Professor of Biology, Director, Interdisciplinary Committee for Molecular and Cellular Biology; B.A., Aoustana College; M.A., University of Colorado; Ph.D., Boston University
- McGaw, Dickinson L.** (1968). Professor of Public Affairs; B.A., M.A., Ph.D., Indiana University, Bloomington

- McGehee, Shelley** (1985), Librarian Emeritus, B Mus., Converse College, M.Mus., M.L.S., University of Alabama
- McGowan, Patrick J.** (1979), Professor of Political Science, B.A., University of the South; M.A., Johns Hopkins University, Ph.D., Northwestern University
- McGowan, Thomas M.** (1988), Professor of Curriculum and Instruction, B.A., Boston University; M.A., Ph.D., University of Nebraska, Lincoln
- McGrath, G.D.** (1950) *Professor Emeritus of Education, Dean Emeritus, College of Education, A.B., Findlay College, M.A., University of Michigan; Ph.D., University of Colorado*
- McGrath, Jacqueline** (1999), Assistant Professor of Nursing, B.S.N., University of Akron, M.S.N., Kent State University; Ph.D., University of Pennsylvania
- McGregor, Joan L.** (1989), Associate Professor of Philosophy; B.A., University of California, Davis; M.A., Ph.D., University of Arizona
- McHugh, Kevin E.** (1985), Associate Professor of Geography; B.S., Pennsylvania State University; M.A., Arizona State University, Ph.D., University of Illinois Urbana Champaign
- McIsaac, Marina Stock** (1980), Professor of Educational Technology, B.A., Pomona College, M.A., Ph.D., University of Wisconsin, Madison
- McIver, Beverly** (1996), Assistant Professor of Art, B.A., North Carolina Central University; M.F.A., University of Pennsylvania
- McKelvy, Michael J.** (1976), Senior Research Scientist, Center for Solid State Science, B.S., University of California, Berkeley, M.S., Ph.D., Arizona State University
- McKenzie, Patrick Bruce** (1970), Professor Emeritus of Accountancy and Information Management, B.S., M.S., Kansas State University; Ph.D., Michigan State University
- McLaughlin, Ilene** (1995), Assistant Librarian, Hayden Reference Services, B.A., Lake Forest College, M.L.S., Simmons College
- McLin, Katherine** (1997), Assistant Professor of Music; B.M., Oberlin College Conservatory, Ohio; M.M., Indiana University, Bloomington; D.M.A., University of Michigan, Ann Arbor
- McManus, Elizabeth B.** (2000), Lecturer of the Barrett Honors College; B.A., M.A., Ph.D., University of Virginia
- McMillan, Mary Claude** (1995), Lecturer of French; B.A., University of Nancy II (France); M.A., Arizona State University
- McMillen, Phyllis** (2000), Faculty Associate of Nursing, B.S.N., Union College, Lincoln, M.S.N., University of Nebraska Medical Center
- McNally, T.M.** (1999), Associate Professor of English; B.A., Rockford College, M.F.A., Arizona State University
- McNamara, Ann** (1997), Faculty Associate of Nursing; B.S.N., Worcester State College, M.S., Arizona State University; Ph.D., University of Arizona
- McNeil, Elizabeth A.** (1998), Academic Associate of English, Academic Advisor, B.A., California State University Chico, M.F.A., Arizona State University
- McNeill, Barry W.** (1976), Assistant Professor of Engineering, B.S., M.S., Ph.D., Stanford University
- McPhee, Robert D.** (1998), Professor of Communication, B.A., M.A., Ph.D., Michigan State University
- McPheters, Lee R.** (1976), Professor of Economics; Director, Bank One Economic Outlook Center; Associate Dean for Executive and Professional Programs, College of Business; A.B., San Francisco State University, Ph.D., Virginia Polytechnic Institute and State University
- McQuillan, Jeff** (1999), Assistant Professor of Curriculum and Instruction, B.A., University of Minnesota, M.A.T., University of St. Thomas, Ph.D., University of Southern California
- McSheffrey, Gerald R.** (1982), Professor Emeritus of Architecture, Dipl. Arch., University College London, United Kingdom, Dipl. C.D., Edinburgh University, United Kingdom
- McSherry, Laurel** (1991), Associate Professor of Planning and Landscape Architecture, B.S.L.A., Rutgers, The State University of New Jersey, M.L.A.II., Harvard University
- McTaggart, W. Donald** (1971), *Professor Emeritus of Geography; M.A., University of St. Andrews, United Kingdom; Ph.D., Australian National University, Australia*
- McWhirter, J. Jeffries** (1970), Professor of Counseling Psychology and Counselor Education; B.A., Saint Martin's College; M.Ed., Oregon State University, M.Ed., Ph.D., University of Oregon
- Mehall, Gregory Lawrence** (1992), Associate Research Professional of Geological Sciences, M.S., Stanford University
- Meir, Baruch I.** (2000), Assistant Professor of Music; B.Mus., M.Mus., Tel Aviv University, Israel, D.M.A., Arizona State University
- Meissinger, Ellen Murray** (1986), Professor of Art; B.F.A., M.F.A., University of North Carolina, Greensboro
- Melichar, Dudley W.** (1974), Professor Emeritus of Justice Studies, B.S., M.S., South Dakota State University; Ed.D., Arizona State University
- Melnick, Robert** (1987), Director, Morrison Institute for Public Policy; Senior Research Scientist for Public Affairs, B.A., Dartmouth College, M.A., Ph.D., Arizona State University
- Melvin, Michael** (1980), Professor of Economics; B.B.A., University of Houston; M.A., San Diego State University; Ph.D., University of California, Los Angeles
- Méndez, José A.** (1980), Professor of Economics, B.A., M.A., University of Texas, Austin; M.A., Ph.D., Southern Methodist University
- Menéndez, José** (1987), Professor of Physics and Astronomy; Licenciado en Física, Balseiro Institute (Argentina), Dr. rer. nat., Stuttgart University, Germany
- Mengeling, Kristina** (1999), Assistant Librarian, Library Instruction, Systems, and Technology; B.A., Northern Illinois University, M.L.S., Rosary College
- Menjivar, Cecilia** (1995), Assistant Professor of Justice Studies, B.A., M.S., University of Southern California, Ph.D., University of California, Davis
- Menke, Robert F.** (1947), Professor Emeritus of Education; B.S., Oshkosh State College, M.A., Ph.D., Northwestern University
- Merbs, Charles F.** (1973), Professor of Anthropology, B.S., M.S., Ph.D., University of Wisconsin, Madison
- Merrill, Bruce D.** (1971), Professor of Journalism and Telecommunication; Director, Media Research Program, M.A., Brigham Young University, Ph.D., University of Michigan

- Messman, Susan J.** 2000, Assistant Professor of Communication, B.A. University of Missouri-Columbia, M.S. Illinois State University, Ph.D., Ohio University
- Metcalf, V. Alonzo** 1971, Professor Emeritus of International Studies, B.S., M.S., University of Arkansas, Ph.D., University of Missouri, Columbia
- Metha, Arlene** 1971, Professor Emeritus of Counseling Psychology, A.B., Arizona State University, M.A., Ohio State University, Ph.D., University of Southern California
- Metos, Thomas H.** 1967, Professor Emeritus of Educational Administration and Supervision, B.S., M.S., Ph.D., University of Utah
- Metz, John** 1980, Professor of Music, B.A., M.M., Syracuse University, D.M.A., The Juilliard School
- Meunier, John** 1987, Professor of Architecture, Dean College of Architecture and Environmental Design, B.A., B.S., University of Liverpool (United Kingdom), M.A., Harvard University, M.A., University of Cambridge (United Kingdom)
- Meyerson, Lee** 1962, Regent Professor Emeritus of Psychology, A.B., Lafayette College, A.M., University of California, Los Angeles, Ph.D., Stanford University
- Middleton, Bruce** 1991, Research Specialist, Electrical Engineering
- Middleton, James Arthur** 1998, Associate Professor of Curriculum and Instruction, B.A., California State University Chico, M.S., Ph.D., University of Wisconsin, Madison
- Mignolet, Marc P.** 1987, Professor of Mechanical and Aerospace Engineering, B.S., University of Lege-Begeim, Ph.D., Rice University
- Miller, Barbara K.** 1976, Professor Emeritus of Nursing, B.S.N., M.S.Ed., University of Akron, Ph.D., University of Texas at Austin
- Miller, Donald S.** 1981, Associate Professor of Computer Science and Engineering, B.S., Syracuse University, M.S., Ph.D., University of Southern California
- Miller, Keith D.** 1987, Associate Professor of English, B.A., Texas Christian University, M.A., State University of New York, Albany, Ph.D., Texas Christian University
- Miller, Robert J.** 1994, Adjunct Professor of Anthropology, B.A., M.A., Western Michigan University, Ph.D., Arizona State University
- Miller, Rosanna** 1974, Librarian Emeritus, B.A., M.A., Arizona State University, M.L.S., University of Arizona
- Miller, Susan A.** 2001, Assistant Professor of African and Indian Studies Program, B.A., M.A., University of Oklahoma, Ph.D., University of Nebraska, Lincoln
- Miller, Terri** 1977, Lecturer of Mathematics, B.S., M.A., Arizona State University
- Miller, Victor J.** 1988, Professor Emeritus of Airbus and Resource Management, B.S., M.S., Ph.D., University of Illinois
- Miller-Loessi, Karen A.** 1984, Associate Professor of Sociology, B.A., University of California, Berkeley, M.A., Ph.D., Stanford University
- Mills, Douglas T.** 1993, Faculty Associate of Instruction, B.S., Arizona State University
- Millsap, Roger E.** 1997, Professor of Psychology, B.S., University of Washington, M.A., Ph.D., University of California, Berkeley
- Milner, Joe W.** 1961, Professor Emeritus of Journalism and Telecommunication, B.A., East Texas State University, M.A., University of Oklahoma, Ed.D., University of Wisconsin
- Milton, Doris** 1994, Faculty Associate, Ph.D., B.S., Borough of Dutton University, M.A., Ph.D., New York University
- Milun, Kathryn** 2001, Assistant Professor of English, B.A., M.A., Ph.D., University of Missouri
- Minckley, Wendell L.** 1967, Professor Emeritus of Biology, B.S., Kansas State University, M.A., University of Kansas, Ph.D., University of Louisville
- Mings, Robert C.** 2001, Professor Emeritus of Geography, B.S., M.A.T., Indiana University, B.S., B.A., Ph.D., Ohio State University
- Minter, Marshall R. Jr.** 1965, Professor Emeritus of Mechanical Engineering, B.S.M.E., Purdue University, M.S.M.E., University of Arizona
- Mintz, Sandra L.** 1980, Clinical Associate Professor of Speech and Hearing Science, B.A., Indiana University, M.S., University of Arizona
- Misra, Rajeev** 1999, Associate Professor of Mechanical Engineering, B.S., Karipur University, India, M.S., G.B. Pant University, India, Ph.D., Adelaide University, Australia
- Mitchell, Frederic F.** 1961, Professor Emeritus of Education, B.A., M.A., University of Arizona, Ph.D., Columbia University
- Mitchell, John** 1991, Associate Research Professor of Dance, Director, Dance Multicultural Learning Center, B.M., Webster University, St. Louis, M.M., University of South Florida
- Mitchell, Michael J.** 1992, Associate Professor of Political Science, B.A., Florida University, M.A., Ph.D., Indiana University, Bloomington
- Mittelmann, Hans Detlef** 1987, Professor of Mathematics, M.A., University of Mainz (Germany), Ph.D., Habilitation, University of Darmstadt, Germany
- Mobasher, Barzin** 1992, Associate Professor of Civil and Environmental Engineering, B.S., University of Wisconsin, Platteville, M.S., Northeastern University, Ph.D., Northwestern University
- Moeckel, Cindy L.** 1987, Associate Professor of Accounting and Information Management, B.A., M.B.A., Miami University, Ph.D., University of North Carolina, Chapel Hill
- Mogey, John M.** 1981, Adjunct Professor of Sociology, B.A., M.A., D.Sc., Queens University, United Kingdom
- Mokwa, Michael P.** 1979, Professor of Marketing, Chair, Department of Marketing, B.B.A., M.B.A., Ph.D., University of Houston
- Monczka, Robert M.** 1999, Research Professor of Supply Chain Management, B.A., M.B.A., Ph.D., Michigan State University
- Montenegro, Leonard Jose** 1986, Associate Research Technologist of Mechanical and Aerospace Engineering, B.S., State University of New York, Albany
- Montero, Darrel** 1999, Associate Professor of Social Work, B.A., California State University, Sacramento, M.A., Ph.D., University of California, Los Angeles
- Montgomery, Douglas C.** 1988, Professor of Industrial Engineering, B.S.I.E., M.S., Ph.D., Virginia Polytechnic Institute and State University

- Montiel, Miguel** 1974, Professor of Chicana and Chicano Studies; Motrice a Pre-identical Professor of Community Revitalization; B.S., University of Arizona. M.S. W. Arizona State University, D.S.W., University of California Berkeley
- Montoya, Janet** 1999, Adjunct Professor of Anthropology, B.A., M.A., University of Houston, Clear Lake
- Mooney, Elina** 1985, Associate Professor of Dance
- Moore, William C.** 1968, Associate Professor of Industrial Engineering; B.S., M.S., Washington University; Ph.D., Northwestern University
- Moore, Ana I.** 1989, Professor of Chemistry and Biochemistry, B.S. of Pharmacy, National University of La Plata, Argentina; M.Sc., Federal University of Rio de Janeiro, Brazil; Ph.D., Texas Tech University
- Moore, Carleton B.** 1961, Regents' Professor of Chemistry and Biochemistry and Geological Sciences, Director, Center for Meteorite Studies; B.S. Alfred University; Ph.D., California Institute of Technology
- Moore, Christine** 1999, Assistant Law Librarian; B.A., Claremont McKenna College, M.A., University of Arizona
- Moore, Diane B.** 1981, Librarian, Noble Science Reference Services; B.S., College of William and Mary, M.L.S., University of Wisconsin, Madison
- Moore, Elsie Gloria Jean** 1981, Associate Professor of Psychology in Education; Director, Division of Psychology in Education; B.A. Elmhurst College, M.A., Ph.D., University of Chicago
- Moore, J. Douglas** 1969, Associate Professor of Mathematics; B.S., M.S., Idaho State University; Ph.D., Syracuse University
- Moore, Michael** 1987, Professor of Biology; B.A., Indiana University; M.S., Ph.D., University of Washington
- Moore, Moses N.** 1959, Associate Professor of Religious Studies; B.A., Eckerd College; M.Div., Yale University; M.Phil., Ph.D., Union Theological Seminary
- Moore, Patricia** 1984, Professor Emerita of Nursing; B.S.N., Lovola University, Chicago; M.S., Catholic University of America; M.P.H., Dr.P.H., Johns Hopkins University
- Moore, Thomas A.** 1976, Professor of Chemistry and Biochemistry; B.A., Ph.D., Texas Tech University
- Moorhead, Gregory** 1978, Associate Professor of Management; B.S.I.E., M.B.A., Ph.D., University of Houston
- Moppett, Samantha A.** 1999, Legal Writing Instructor; B.A., Bridgell University, J.D., Suffolk University Law School
- Mor, Tsafir** 2000, Assistant Research Professor of Plant Biology; B.Sc., M.Sc., Ph.D., Hebrew University of Jerusalem, Israel
- Morgan, Don** 2000, Associate Professor of Exercise Science and Physical Education; B.M.E., Northwestern University; M.S., University of Tennessee, Knoxville; Ph.D., Arizona State University
- Morgan, Miriam J.** 1967, Instructor Emerita of French Literature; Licence es Lettres, University of Paris, France; M.A., Arizona State University
- Morgan, Owen W.** 1968, Professor Emeritus of Family and Human Development; B.A., Grinnell College; M.A., University of Nebraska, Omaha; Ph.D., University of Nebraska, Lincoln
- Morgan, Thais E.** 1987, Associate Professor of English; B.A., Smith College; M.A., Ph.D., Brown University
- Moroney, Robert M.** 1981, Professor of Social Work; A.B., M.S.W., Boston College; M.P.H., Harvard University; Ph.D., Brandeis University
- Morrell, Darryl** 1988, Associate Professor of Electrical Engineering; B.S., M.S., Ph.D., Brigham Young University
- Morris, Brenda C.** 1994, Clinical Associate Professor of Nursing; B.S.N., M.S., University of Arizona; Ed.D., Arizona State University
- Morris, Donald H.** 1962, Professor Emeritus of Anthropology; B.A., Arizona State University; M.A., Ph.D., University of Arizona
- Morrison, Kenneth M.** (1983), Associate Professor of Religious Studies; B.A., Saint Dunstan's University; M.A., Ph.D., University of Maine
- Moses, Michele** 2000, Assistant Professor of Educational Leadership and Policy Studies; B.A., University of Virginia; M.Ed., University of Vermont; M.A., University of Colorado
- Mossman, Kenneth L.** (1990), Professor of Microbiology, Director, Radiation Safety Office; B.S., Wayne State University; M.Ed., University of Maryland, College Park; M.S., Ph.D., University of Tennessee, Knoxville
- Mou, Jong-I** 1994, Associate Professor of Industrial Engineering; B.S., M.S., University of Wisconsin, Madison; Ph.D., Purdue University
- Moulton, Gerald L.** 1967, Professor Emeritus of Counselor Education; B.A., Hamline University; M.Ed., Ed.D., University of Oregon
- Mowrer, Donald E.** 1965, Professor Emeritus of Speech and Hearing Science; B.A., M.A., Florida State University; Ph.D., Arizona State University
- Moyer, Joan E.** 1971, Professor Emerita of Curriculum and Instruction; B.S., Kutztown State University; M.Ed., Pennsylvania State University; Ph.D., University of Maryland, College Park
- Muccino, Julia Catherine** 1997, Assistant Professor of Civil and Environmental Engineering; B.C.E., Villanova University; M.S., Ph.D., University of Notre Dame
- Mueller-Alexander, Jeanette M.** 1989, Librarian, Hayden Reference Services; B.A., Morehead State University; M.L.S., Indiana University-Bloomington
- Mulligan, Donald F.** 1987, Professor of Construction; B.S.E., M.S.M.E., Arizona State University
- Mulvihill, Josepha Anne** 1983, Associate Librarian, Hayden Reference Services; B.S., University of Kansas; M.L.S., Emporia State University
- Munk, Morton E.** 1961, Professor of Chemistry and Biochemistry; B.S., Northwestern University; M.S., University of Miami; Ph.D., Wayne State University
- Murdough, John M.** 1997, Faculty Associate of Construction; B.S., M.B.A., Arizona State University
- Murff, Scott** 1998, Assistant Professor of Architecture; B.S.D., Clemson University; B.Arch., The Cooper Union
- Murphey, Claudia** 1996, Professor of Dance, Chair, Department of Dance; B.A., Western College; M.A., George Washington University

Murphy, Jeffrie G. 1981 Regents' Professor of Law and Philosophy, B.A., Johns Hopkins University, Ph.D., University of Rochester

Murphy, Juanita F. 1977 Professor Emeritus of Nursing, Dean Emeritus, College of Nursing; B.A., Oklahoma Baptist University, M.S., Ph.D., Case Western Reserve University

Murphy, Kurt R. 1986 Associate Librarian; Assistant Dean, University Libraries Personnel, B.S., M.L.S., University of Illinois; M.B.A., Arizona State University

Murranka, Patricia A. 1977 Associate Professor of Management Communication, B.A., Trenton State College, M.A., Rider College, Ed.D., Utah State University

Murray, Kimberly 2000 Faculty Associate of Nursing, B.S., Boston University, M.S., Arizona State University

Murray, Roger N. (1968), Professor Emeritus of English; B.A., B.S., Moorhead State Teachers College, M.A., Stanford University; Ph.D., University of Iowa

Musacchio, Laura (1999), Assistant Professor of Planning and Landscape Architecture, B.L.A., M.L.A., State University of New York, Ph.D., Texas A&M University

Musheno, Michael C. 1977 Professor of Justice Studies and Public Affairs; B.A., Lycoming College; M.A., Ph.D., American University

Mushkatel, Alvin H. 1980 Professor of Planning and Landscape Architecture, B.A., Ohio State University; M.S., Ph.D., University of Oregon

Muthuswamy, Jitendran (2000), Assistant Professor of Bioengineering, B.Tech., Indian Institute of Technology, India, M.S., Ph.D., Rensselaer Polytechnic Institute

Myers, Quin 1985 Academic Associate, Division of Undergraduate Academic Services; Coordinator, Writing Across the Curriculum; B.S.Ed., Chadron State College; M.A., Arizona State University

Myhajlenko, Stefan 1986 Associate Research Scientist and Associate Director, Center for Solid State Electronics Research, Ph.D., University of Manchester, Victoria (United Kingdom)

Myler, Charles E. Jr. 1968 Professor Emeritus of Real Estate, B.B.A., Loyola University; M.B.A., Harvard University; Ph.D., University of Florida

N

Nagasawa, Richard H. 1969 Professor of Sociology, B.A., University of Hawaii, Manoa, M.A., Ph.D., University of Washington

Nagoshi, Craig 1989 Associate Professor of Psychology, B.A., M.A., Ph.D., University of Hawaii, Manoa

Nagrin, Daniel 1982 Professor Emeritus of Dance, B.S., City College of New York

Nagy, Bethel (2000), Adjunct Professor of Anthropology, B.A., Arizona State University; M.A., University of Toronto, Canada; Ph.D., Arizona State University

Nagy, John D. (1999), Adjunct Professor of Biology, B.S., Eastern Michigan University, B.S., University of Michigan, Ann Arbor, Ph.D., Arizona State University

Nakagawa, Kathryn (1996), Assistant Professor of Psychology in Education, B.A., M.A., University of Notre Dame, Ph.D., Northwestern University

Nakayama, Thomas K. (1991), Professor of Communication; Director, Asian Pacific American Studies Program, A.B., Georgia State University, M.A., Ph.D., University of Iowa

Napoli, Maria 1996 Assistant Professor of Social Work; B.A., H.H. Lehman College, M.S.W., Ph.D., New York University

Nardari, Federico (1999), Assistant Professor of Finance, B.S., University of Bergamo (Italy); M.S.B.A., Ph.D., Washington University, St. Louis

Nardella, Francis A. 1992 Adjunct Professor of Bioengineering, A.B., West Virginia University; M.D., West Virginia University, School of Medicine

Nash, Leanne T. 1971 Professor of Anthropology; B.A., University of California, Davis, M.A., Ph.D., University of California, Berkeley

Nash, Thomas H. III (1971), Professor of Plant Biology; B.S., Duke University, M.S., Ph.D., Rutgers, The State University of New Jersey

Navabi, Faye (1997), Lecturer of Computer Science and Engineering; B.S., M.S., University of Southwestern Louisiana

Neal, Berna E. 1988 Librarian Emeritus, B.A., M.L.S., Syracuse University

Nebeker, Helen E. (1958), Professor Emeritus of English, B.A., M.A., Arizona State University

Neisewander, Janet L. 1991 Associate Professor of Psychology, B.S., Rockford College, M.S., Ph.D., University of Kentucky

Nelsen, Edward A. (1975), Professor of Education, Academic Program Leader, Educational Psychology, B.S., University of Wisconsin, Madison, Ph.D., Stanford University

Nelson, Ben A. (1995), Professor of Anthropology; B.A., M.A., Florida State University, Ph.D., Southern Illinois University

Nelson, G. Lynn 1973 Associate Professor of English; B.A., Kearney State College, Ph.D., University of Nebraska, Lincoln

Nelson, J. Russell 1981-89 Professor Emeritus of Finance, President Emeritus of the University; B.A., Pacific Union College, M.B.A., Ph.D., University of California, Los Angeles

Nelson, John C. 1967 Associate Professor of Curriculum and Instruction, B.S., M.A., Arizona State University, Ph.D., Vanderbilt University

Nelson, Kelly 1999 Lecturer, Division of Undergraduate Academic Services, B.A., Michigan State University, M.S., University of Southern Maine, Ph.D., Brandeis University

Nelson, Margaret (1995), Professor of Anthropology, B.A., Occidental College, Los Angeles, Ph.D., University of California, Santa Barbara

Nemeroff, Carol 1988 Associate Professor of Psychology; B.A., McGill University, Canada; M.A., Ph.D., University of Pennsylvania

Nemiro, Jay S. 1995 Adjunct Professor of Biology, B.A., Temple University, M.D., George Washington University School of Medicine

Nering, Evar D. 1960 Professor Emeritus of Mathematics; B.A., Indiana University, Fort Wayne; M.A., Ph.D., Princeton University

Neuberg, Steven L. 1988 Professor of Psychology, A.B., Crime University, M.S., Ph.D., Carnegie Mellon University

Neuer, Susanne (2000), Assistant Research Professor of Biology; B.S., Kie University (Germany); M.S., University of Washington; Ph.D., Oregon State University

Neumann, Tina M. 1996, Lecturer of Speech and Hearing Science, B.A., M.A., Gallaudet University

Newman, Nathan 2000, Professor of Materials Engineering, B.S., University of Southern California, M.S. Ph.D., Stanford University

Nevarez-Kells, Loretta (2000), Faculty Associate of Nursing, B.S.N., M.S., Arizona State University

New, Frances Y. 1986, Librarian Emeritus, B.S., Seattle Pacific University, M.L.S., University of Arizona

Newfeld, Stuart J. (1997), Assistant Professor of Biology; B.S., Hobart College, M.A., M.S., University of Hawaii, Ph.D., Emory University

Ney, James W. (1969, Professor Emeritus of English, B.A., M.A., Wheaton College; Ed.D., University of Michigan

Nichols, Ann W. (1970), Associate Professor of Social Work; A.B., Stanford University, M.S.W., D.S.W., Columbia University

Nichols, Renea D. 1995, Lecturer of Journalism and Telecommunication; B.A., Central Michigan University, M.M.C., Arizona State University

Nicolaenko, Basil (1989, Professor of Mathematics, M.S., University of Paris, France, Ph.D., University of Michigan

Niederheman, Melissa 1998, Assistant Professor of Design; B.F.A., University of Massachusetts, Dartmouth, M.F.A., Allgemeine Gewerbeschule Basel, Switzerland

Niedwiecki, Anthony 2000, Legal Writing Instructor, B.A., Wayne State University, L.L.M., Temple University, J.D., Tuane Law School

Nielsen, Michael J. (1969, Professor Emeritus of Design; B.P.D., North Carolina State University, Raleigh, M.A., Stanford University

Nielson, Gregory M. (1970, Professor of Computer Science and Engineering, B.S., M.S., Ph.D., University of Utah

Nigam, Bishan Perkash (1964), Professor Emeritus of Physics and Astronomy, B.S., M.S., University of Delhi, India, Ph.D., University of Rochester

Nikitin, Sergey 1994, Assistant Professor of Mathematics, M.S., Moscow State University, Ph.D., Academy of Sciences of Russia, Research Institute of System Studies

Nilsen, Atleen P. (1975), Professor of English, B.A., Brigham Young University, M.Ed., American University, Ph.D., University of Iowa

Nilsen, Don L.F. 1973, Professor of English, B.A., Briham Young University, M.A., American University; Ph.D., University of Michigan

Northey, William T. 1959, Professor Emeritus of Microbiology; B.A., University of Minnesota, Twin Cities; M.A., Ph.D., University of Kansas

Norton, Janice (1998), Lecturer of English, B.A., M.A., University of Tennessee, Knoxville, Ph.D., University of Iowa

Norton, Kay 1999, Senior Lecturer of Music, B.M.E., M.F.A., University of Georgia, Ph.D., University of Colorado

Norton, M. Scott (1973, Professor of Educational Administration and Supervision; B.S., M.Ed., Ed.D., University of Nebraska, Lincoln

Nowlis, Stephen 1996, Associate Professor of Marketing, B.A., Stanford University; M.B.A., University of California, Berkeley, Ph.D., University of California, San Diego

Nunez, Diane E. 1995, Clinical Assistant Professor of Nursing, B.S.N., M.S., Arizona State University

O

O'Brien, Carmen A. (1959, Professor Emeritus of Education, B.A., M.A., Arizona State University

O'Brien, Robin K. 1995, Lecturer of Speech and Hearing Science, B.A., Gallaudet University

O'Connor, Flinor J. 1970, Professor Emeritus of Family and Human Development; B.S., St. Catharine College, M.S., University of Iowa

O'Connor, Michael P. (1999), Legal Writing Instructor, B.A., Pennsylvania State University, J.D., Yale University

O'Day, Peggy A. 1994, Associate Professor of Geological Sciences; B.S., University of California, Davis; M.S., Cornell University, Ph.D., Stanford University

O'Dell, Michael A. (1980), Associate Professor of Accountancy and Information Management, B.S., M.B.A., University of California, Los Angeles; Ph.D., University of Texas, Austin, C.P.A., Colorado

O'Donnell, Ed 1999, Assistant Professor of Accountancy and Information Management, B.B.A., Texas A&M University; Ph.D., University of North Texas, Kingsville

O'Grady, Catherine 1991, Professor of Law; Director, Clinical Programs; B.A., University of Michigan, J.D., Arizona State University

O'Grady, E.P. (1977), Associate Professor of Computer Science and Engineering; B.S., St. Louis University; M.S., Ph.D., University of Arizona

O'Haver, Judy 1999, Faculty Associate of Nursing, B.S.N., Nagara University; M.S., Arizona State University

Ó hUallacháin, Breandán (198), Professor of Geography, Chair Department of Geography, B.A., National University of Ireland, Ireland, M.A., Indiana University, Bloomington, Ph.D., University of Illinois, Urbana-Champaign

O'Keefe, Michael 1963, Regents' Professor of Chemistry and Biochemistry, B.S., Ph.D., University of Bristol, United Kingdom

O'Leary, Timothy J. 1978, Associate Professor of Computer Information Systems, B.S., Western College, M.B.A., D.B.A., Kent State University

O'Sullivan-Kachel, Peggy 1995, Director, Advanced Public Executive Program, B.S., Northern Arizona University; M.P.A., Arizona State University

Obermeier, Anita (1993), Senior Lecturer of English, B.A., Ludwig Maximilian University (Germany); M.A., Eastern Illinois University, Ph.D., Arizona State University

Odenkirk, James E. 1967, Professor Emeritus of Exercise Science and Physical Education, B.S., M.A., Ohio State University, Ed.D., Columbia University

Odewahn, Stephen C. 1999, Assistant Research Scientist of Physics and Astronomy, B.S., University of Alabama, M.S., Ph.D., University of Texas, Austin

Odish, Faris (1997, Lecturer of Mathematics, B.S., University of Baghdad, M.A., Wayne State University

Oetting, Edward 1983, Librarian, Hayden Reference Service, B.A., University of Michigan, M.A., University of Illinois, M.S.L.S., Wayne State University

Oh, Young Kyun (1999), Instructor of Korean, B.A., Soong Ahn University Graduate School (Korea); M.A., University of Wisconsin, Madison

Ohmart, Robert D. (1970), Professor of Biology, B.S., M.S., New Mexico State University, Ph.D., University of Arizona

Ojala, William T. (1971), Professor Emeritus of English, B.S., M.A., University of Minnesota-Twin Cities, Ph.D., Florida State University

Okamoto, Scott K. (2000), Assistant Professor of Social Work, B.S., University of California, Los Angeles; M.S.W., San Jose State University; Ph.D., University of Hawaii, Manoa

Okun, Morris A. (1976), Professor of Psychology, Director, Gerontology Program, B.A., Brooklyn College, M.S., Ph.D., Pennsylvania State University

Oldani, Robert W. (1982), Professor of Music, B.A., University of Illinois; M.A., Ph.D., University of Michigan

Olivas, Louis (1979), Associate Professor of Management, Assistant Vice President for Academic Affairs, B.A., M.A., Ed.D., Arizona State University

Oliver, Robert S. (1963), Professor Emeritus of Architecture, B.A., M.A., University of California, Berkeley, M.F.A., Alameda Institute, Mexico

Olson, Clark D. (1984), Instructional Professional of Communication, B.A., Iowa State University; M.S., University of Utah, Ph.D., University of Minnesota, Twin Cities

Orchinik, Miles (1995), Assistant Professor of Biology, B.A., San Francisco State University, Ph.D., Oregon State University

Orlich, Ileana (1996), Assistant Research Professional of Languages and Literatures, Diploma de Licenta, University of Bucharest (Romania), M.A., Ph.D., Arizona State University

Ormiston, Michael B. (1984), Professor of Economics, B.S., Michigan State University, M.A., Ph.D., Johns Hopkins University

Ossipov, Helene (1987), Associate Professor of French, B.A., City University of New York, M.A. (French Linguistics), M.A. (Russian Area Studies), Ph.D., Indiana University, Bloomington

Osterhoudt, Robert G. (1976), Professor Emeritus of Exercise Science and Physical Education, B.S., M.S., Pennsylvania State University, Ph.D., University of Illinois

Ostroff, Cheri (1995), Professor of Management, B.A., University of Texas, M.A., Ph.D., Michigan State University

Ostrom, Amy (1996), Assistant Professor of Marketing, B.A., Arizona State University, Ph.D., Northwestern University

Ostrom, Lonnie L. (1973), Professor of Marketing, Director, Development, Instructional Advancement; President, Arizona State University Foundation, B.B.A., University of Wisconsin, M.S., Southern Illinois University, Carbondale, Ph.D., University of Alabama

Ota Wang, Vivian (1998), Assistant Professor of Counseling Psychology and Counselor Education, B.A., Colorado College, M.S., University of Colorado, Ph.D., Columbia University

Otis, Jeanne (1975), Professor of Art, B.A., DePauw University; B.F.A., Denison University, M.F.A., Ohio State University

Owusu-Antwi, Emmanuel B. (1997), Assistant Professor of Civil and Environmental Engineering, B.S., University of Science and Technology (Ghana), M.S., University of Alberta (Canada); Ph.D., University of Texas, Austin

Ozel, Filiz (1995), Professor of Architecture, B.Arch., M.Arch., Middle East Technical University (Turkey); D.Arch., University of Michigan

P

Packer, Merle A. (1959), Professor Emeritus of Physical Education, B.A., M.A., Arizona State University, Ed.D., University of Northern Colorado

Padilla, Peter A. (199), Assistant Professor of Sociology, B.A., M.A., University of Northern Colorado; Ph.D., Arizona State University

Padilla, Raymond V. (1982), Professor of Chicana and Chicano Studies, B.A., University of Michigan, M.A., Ph.D., University of California, Berkeley

Pagano, Caio (1986), Regents' Professor of Music, B.Laws., University of Sao Paulo (Brazil); D.M.A., Catholic University of America

Page, John B. (1969), Professor of Physics and Astronomy, B.S., Ph.D., University of Utah

Pagliasotti, Michael J. (1998), Associate Professor of Exercise Science and Physical Education, B.A., M.A., California State University, Northridge, Ph.D., University of Southern California

Palais, Elliot S. (1959-62; 1966), Librarian Emeritus, B.A., Bowdoin College, A.M.L.S., University of Michigan

Palais, Joseph C. (1964), Professor of Electrical Engineering, B.S.E.E., University of Arizona, M.S.E., Ph.D., University of Michigan

Palmer, Michael B. (1998), Lecturer of Psychology, B.A., Arizona State University, M.A., Michigan State University, Ph.D., Arizona State University

Palumbo, Dennis J. (1983), Regents' Professor Emeritus of Justice Studies, M.A. (Social Science), M.A. (Political Science), Ph.D., University of Chicago

Pan, George (1995), Professor of Electrical Engineering, B.E., Peking Institute of Petroleum Technology (China), M.S., Ph.D., University of Kansas

Panchanathan, Sethuraman (1997), Associate Professor of Computer Science and Engineering, B.Sc., University of Madras (India), M.Tech., Indian Institute of Technology, Madras (India), Ph.D., University of Ottawa (Canada)

Panchmatia, Bella (1978), Faculty Associate of Nursing, B.S.N., University of Alberta (Canada), M.S.N., University of Wisconsin, Madison

Pang, Patty (1999), Instructor of Chinese, B.A., Tamkang University (Taiwan), M.A., Arizona State University

Pangrazi, Robert P. (1973), Professor of Exercise Science and Physical Education, B.A., M.S., Ph.D., Washington State University

Panitch, Alyssa (1999), Assistant Professor of Biomechanics, B.S., Ph.D., University of Massachusetts

Pany, Kurt J. (1978), Professor of Accountancy and Information Management, B.S.B.A., University of Arizona, M.B.A., University of Minnesota, Twin Cities, Ph.D., University of Illinois, Champaign

Papandreou-Suppappola, Antonia (1999), Assistant Professor of Electrical Engineering, B.S., M.S., Ph.D., University of Rhode Island

- Pardini, Louis J.** 1967 . Professor Emeritus of Technology; B.A., A.M., Idaho State University; Ed.D., University of Northern Colorado
- Parker, Harold E.** 1987 . Senior Research Technologist, Engineering Computer Services
- Park-Fuller, Linda M.** (2000) Assistant Professor of Communication; B.A., University of North Dakota; M.A., University of Missouri, Columbia; Ph.D., University of Texas Austin
- Parkinson, Stanley R.** 1971 . Professor of Psychology; A.B., University of California, Berkeley; M.A., Ph.D., University of California, Davis
- Parrish, H. Wayne** 1967 . Professor Emeritus of Curriculum and Instruction, A.B. San Diego State College; M.Ed., Ed.D. University of Oregon
- Parrish, Mila** (2000) Assistant Professor of Dance; B.F.A. University of Michigan; M.A., Columbia University
- Pasqualetti, Martin J.** 1977 . Professor of Geography; B.A. University of California, Berkeley; M.A. Louisiana State University, Baton Rouge; Ph.D., University of California, Riverside
- Pastin, H. Mark** 1980 . Professor Emeritus of Management; B.A., University of Pittsburgh; A.M., Ph.D., Harvard University
- Patel, Mookesh** 1990 . Associate Professor of Design; B.F.A., National Institute of Design, India; M.F.A., Rhode Island School of Design
- Patten, Duncan T.** 1965 . Professor Emeritus of Plant Biology; A.B., Amherst College; M.S. University of Massachusetts Amherst; Ph.D. Duke University
- Patterson, Robert A.** 1957 . Professor Emeritus of Biology; B.S., University of Michigan; Ph.D. Ohio State University
- Patterson, Shirley L.** (1994), Professor Emeritus of Social Work; B.A., North Texas State University; M.A., McCormick Theological Seminary; M.S.W. University of Kansas; Ph.D., University of Wisconsin, Madison
- Paulsen, George E.** (1959) . Professor Emeritus of History; B.A., Hobart College; M.A., Rutgers The State University of New Jersey; Ph.D., Ohio State University
- Paz, Juan J. Jr.** 1988 . Associate Professor of Social Work; B.A. University of Texas, El Paso; M.S., University of Houston; D.S.W., Howard University
- Peacock, Simon M.** 1955 . Professor of Geological Sciences, Chair, Department of Geological Sciences; B.S., M.S., Massachusetts Institute of Technology; Ph.D., University of California, Los Angeles
- Pearce, Martha V.** (197) . Professor Emeritus of Technology; B.S., Columbia University; M.S., Boston University; Ed.D., Arizona State University
- Pearson, David L.** 1988 . Research Professor of Biology; B.S., Pacific Lutheran University; M.S., Louisiana State University; Baton Rouge; Ph.D., University of Washington
- Pearson, John N.** (1981), Professor of Supply Chain Management; B.S., M.B.A. Florida Atlantic University; Ph.D., Georgia State University
- Pearson, Nancy B.** 1989 . Research Specialist of Microbiology; B.A. Earlham College; M.S., Louisiana State University, Baton Rouge
- Peck, Robert E.** (1984) . Professor of Engineering, Vice Chair for Mechanical Engineering; B.S., University of California, Berkeley; M.S., Ph.D. University of California, Irvine
- Pei, Ker Wei** 1986 . Professor of Accountancy and Information Management; B.A. National Chung Hsing University, Taiwan; M.A., Southern Illinois University, Carbondale; Ph.D., North Texas State University
- Peña, Robert** (1995), Assistant Professor of Educational Leadership and Policy Studies; B.S., M.A., State University of New York, Buffalo; Ph.D., University of Wisconsin, Madison
- Penley, Larry E.** (1985), Professor of Management, Dean, College of Business; B.A., M.A., Wake Forest University; Ph.D., University of Georgia
- Peralta, Pedro D.** 1998), Assistant Professor of Engineering; B.S., Simón Bolívar University, Venezuela; M.S., Ph.D. University of Pennsylvania
- Perrill, Norman K.** (1966), Professor Emeritus of Communication; B.S., M.A., Northwestern University; Ph.D., University of Southern California
- Perry, Curtis** 1997 . Associate Professor of English; B.A., Cornell University; M.A., Ph.D., Harvard University
- Perry, Patsy** 1985 . Professor of Nursing; B.S., Columbia Union College; M.S., University of Colorado; Ph.D., University of Michigan
- Perry, R. Tod** 1998 . Assistant Professor of Finance; B.B.A., University of Notre Dame; J.D., University of Virginia; Ph.D., University of North Carolina, Chapel Hill
- Perry, Ronald W.** 1983 . Professor of Public Affairs; B.Sc., M.A., Arizona State University; Ph.D., University of Washington
- Peskin, Sandra R.** 2000 . Faculty Associate of Nursing; B.S., Northwestern State University; J.D., University of Baltimore
- Pessler, Anthony J.** 1994 . Associate Professor of Art; B.F.A. M.A., St. Cloud State University; M.F.A. University of Wisconsin, Madison
- Peterman, Gordon G.** 1966 . Professor Emeritus of Construction; B.S.C.E. University of Iowa
- Peters, Kathleen A.** 1967 . Professor Emeritus of Family and Human Development; B.S., M.S., Kansas State University
- Petersen, Michelle C.** (199) . Lecturer of Spanish; B.A., Western Illinois University; M.A., University of Iowa
- Peterson, John R.** 1963 . Professor Emeritus of Architecture, Graduate Coordinator of School of Architecture; B.A., Saint Olaf College; B.Arch., University of Minnesota, Twin Cities; M.Arch., Harvard University
- Peterson, Ralph** 1976 . Professor Emeritus of Curriculum and Instruction; B.A., Eastern Washington State College; M.A., Ed.D., Columbia University
- Peterson, Trygve** 1994 . Associate Professor of Music; B.M., New England Conservatory of Music; M.M., Yale University; D.M.A., The Juillard School
- Petrucchi, Darren** 1998 . Assistant Professor of Architecture; B.S.D., Arizona State University; M.Arch., Harvard University
- Pettit, G. Robert** (1964), Regents Professor of Chemistry and Biochemistry; Director, Cancer Research Institute; B.S., Washington State University; M.S., Ph.D., Wayne State University

- Pettit, Robin** 1996 , Adjunct Faculty of Microbiology, B.S. University of Arizona M.S., Washington State University, Ph.D. University of Montana
- Petuskey, William T.** 1983 , Professor of Chemistry and Biochemistry, B.S., University of Utah; Sc.D., Massachusetts Institute of Technology
- Pfister, A. J.** (1991) , Distinguished Research Fellow of Public Affairs B.S., J.D., University of Arizona
- Pflugfelder, Janice** 1987 , Faculty Associate of Nursing; B.S., St. Joseph College, M.S., Arizona State University
- Pfuhl, Erdwin H. Jr.** 1968 , Professor Emeritus of Sociology, A.B., Whitman College A.M. University of Idaho , Ph.D., Washington State University
- Pheanis, David C.** (1975) , Associate Professor of Computer Science and Engineering, B.S., Case Institute of Technology, M.S., Ph.D., Arizona State University
- Phelan, Patrick E.** 1996 , Associate Professor of Mechanical and Aerospace Engineering, B.S., Tulane University, M.S., Massachusetts Institute of Technology, Ph.D., University of California, Berkeley
- Philippakis, Andrew S.** (1967), Professor of Computer Information Systems, B.S. Gannon College; M.B.A., Ph.D., University of Wisconsin, Madison
- Phillips, William W.** 1958 , Professor Emeritus of History, Ph.B., M.A., University of North Dakota; Ph.D., University of Missouri
- Pian, Richard H.J.** 1959 , Professor Emeritus of Civil Engineering; B.S.C.E., Kung Shan University China ; M.S.E., Ph.D., Cornell University
- Piburn, Michael D.** (1989), Professor of Curriculum and Instruction B.S., University of California Davis, Ph.D. Princeton University
- Pickens, Judith M.** (1987-99, 2000) Assistant Professor of Nursing B.S.N., Marymount College, M.S., University of Missouri, Ph.D., Arizona State University
- Pickus, David** (1999), Lecturer of the Barrett Honors College, B.A., Lawrence University, M.A., Ph.D., University of Chicago
- Pigg, Kathleen B.** 1958 , Associate Professor of Plant Biology, B.S., M.S., Ohio University Ph.D. Ohio State University
- Pijawka, K. David** (1987) , Professor of Planning and Landscape Architecture; Director, Ph.D. Program in Environmental Planning in Design B.A., Brock University (Canada), M.A., Ph.D., Clark University
- Pilafian, J. Samuel** (1995), Professor of Music, B.M., University of Miami
- Pile, James** 1971 Professor of Art B.F.A. M.F.A., University of Nebraska, Lincoln
- Pimentel, David** 1973 , Professor of Art B.S., Ed., Massachusetts College of Art, M.F.A. Rochester Institute of Technology
- Pinckard, Mary-Margaret** 1952 , Librarian Emeritus, B.S., University of New Hampshire; M.L.S., University of Arizona
- Pinkava, Donald J.** 1964 Professor Emeritus of Plant Biology, B.S., M.S., Ph.D., Ohio State University
- Pittman, Anne M.** 1972 , Professor Emeritus of Exercise Science and Physical Education B.S., University of Texas, Austin; M.A., New York University, Ed.D., Stanford University
- Pittsley, Janice M.** 1987 , Associate Professor of Art, B.F.A., University of North Carolina, Chapel Hill, M.F.A., University of Georgia
- Pizziconi, Vincent B.** 1987 , Associate Professor of Bioengineering, B.S., University of Lowell, M.S.E., Ph.D., Arizona State University
- Platoff, Anne M.** 1997 , Assistant Librarian Library Instruction, Systems, and Technology, B.A., Kansas State University, M.A. University of Houston Clear Lake, M.S., University of North Texas
- Podlich, William F.** 1949 , Professor Emeritus of Education, B.S., Maryland State Teachers College, Ph.D., University of Iowa
- Poe, Jerry B.** 1974 , Professor Emeritus of Finance, B.A., Drury College; M.B.A., Washington University; D.B.A., Harvard University
- Polenz, G. Donald** (1967) , Professor Emeritus of Social Work, B.A., Wartburg College, M.A., University of Iowa D.S.W., University of Southern California
- Polk, Janet C.** 1993 , Faculty Associate of Nursing, B.S.N., M.S., Arizona State University
- Ponce, Fernando A.** (1999) , Professor of Physics and Astronomy; B.S., National University of Engineering (Peru), M.S., University of Maryland, College Park, Ph.D., Stanford University
- Potenza, Bruce M.** (1988), Adjunct Associate Professor of Engineering; B.A., B.S., Northwestern University, M.D., Lovola University
- Pourbastini, Wendy** (2000), Faculty Associate of Nursing, B.S.N., M.S.N., Arizona State University
- Poweleit, Christian D.** 1995 , Assistant Research Professional of Physics and Astronomy, B.A., Thomas Moore College; M.A., Purdue University, West Lafayette; Ph.D., University of Cincinnati
- Powers, Doris C.** 1960 , Professor Emeritus of English, B.A., Wellesley College; M.A. Occidental College, Ph.D., University of California, Berkeley
- Prather, Elizabeth M.** (1978), Professor Emeritus of Speech and Hearing Science, B.S., University of Nebraska Lincoln M.A., Ph.D. University of Iowa
- Pratt, Melvin W.** (1987), Senior Research Technologist, Center for Solid State Electronics Research
- Presson, Clark C.** (1980), Professor of Psychology, B.A., Ponona College; M.S., Ph.D., Columbia University
- Prewitt, Kathryn A.** (1992) , Associate Professor of Mathematics; B.A. University of Kansas, M.S. Ph.D., University of California, Davis
- Pride, Bill E.** 1997 Lecturer of Exercise Science and Physical Education, B.A., M.A., Arizona State University
- Prigatano, George P.** (1993), Adjunct Professor of Speech and Hearing Science, B.S., Loyola University, Los Angeles, M.A., California State University, Long Beach, Ph.D., Bowling Green State University
- Primas, Phyllis J. Krause** 1987 , Associate Professor of Nursing; B.S.N. University of Pennsylvania, M.P.H., Ph.D., University of Pittsburgh
- Pritchard, Mark P.** 1998 , Assistant Professor of Recreation Management and Tourism, B.S., M.S., Ph.D., University of Oregon
- Pritchard, Melissa** (1994), Associate Professor of English; B.A., University of California, Santa Barbara; M.A., Western Washington University

Privateer, Paul 199 Associate Professor of Interdisciplinary Humanities, B.A., M.A. California State University Stanislaus; Ph.D., University of California, Davis

Prust, Zenas A. 1959 Professor Emeritus of Technology, B.S., University of Wisconsin Stout, M.A., University of Minnesota, Twin Cities; Ed.D., University of Northern Colorado

Putman, Margaret 1993, Faculty Associate of Nursing; B.S.N., University of Arizona, M.S., Arizona State University

Pyne, Stephen J. (1986) Professor of Biology and History, B.A., Stanford University; M.A., Ph.D., University of Texas, Austin

Q

Qian, Zhenchao (1994), Associate Professor of Sociology, B.S., Shanghai Institute of Education, China, M.A., Ph.D., University of Pennsylvania

Quay, Ray (1990), Adjunct Associate Professor of Planning and Landscape Architecture; B.S., Baylor University; M.S.C.R.P., University of Texas, Austin

Quesada, Eugene R. (1973), Professor Emeritus of Design; B.A., Arizona State University

Quigg, John C. (1981), Professor of Mathematics; B.S., M.S., Ph.D., Drexel University

Quinn, Paul M. (1995), Lecturer of Speech and Hearing Science, B.A., California State University, Northridge

R

Raby, William 1982, Professor Emeritus of Accountancy and Information Management, B.S., Northwestern University, M.B.A., Ph.D., University of Arizona

Rader, Martha 1975, Associate Professor of Curriculum and Instruction, B.S., M.B.E., University of Mississippi, Ph.D., Kansas State University

Radke, Judith J. (1960), Professor Emeritus of French, B.S., M.A., University of Wisconsin Madison; Ph.D., University of Colorado

Ragan, Donal M. 1967, Professor Emeritus of Geological Sciences, B.A., Occidental College, M.S., University of Southern California; Ph.D., University of Washington

Ragsdale, Bruce D. (1989), Adjunct Professor of Anthropology, B.S., University of California, M.D., University of California, San Francisco

Rajan, Subramaniam D. (1983), Professor of Civil and Environmental Engineering; B.Tech., Indian Institute of Technology (India), M.S., Ph.D., University of Iowa

Ralston, Mack A. 1956, Professor Emeritus of Education, B.S., M.S., Indiana State University; Ed.D., Indiana University

Ramage, John (1990), Associate Professor of English; B.A., Whitman College; Ph.D., Washington State University

Ramakrishna, B.L. (1999), Associate Professor of Plant Biology, B.Sc., Bangalore University (India); M.Sc., Indian Institute of Technology, Kanpur (India); Ph.D., Indian Institute of Technology, Madras (India)

Randall, Paul (1995), Assistant Professor of Design, B.S.I.D., Philadelphia University of the Arts, M.A., Ohio State University

Ranero-Antolin, Anna (1999), Lecturer of the Barrett Honors College, M.A., University of Illinois, Urbana-Champaign; M.A., Ph.D., Harvard University

Rankin, Robert L. (1971), Associate Professor of Engineering; B.S., University of Texas El Paso, Ph.D., William Marsh Rice University

Rankin, W. Parkman (1982), Professor Emeritus of Journalism and Telecommunication; B.S., Syracuse University; M.B.A., Ph.D., New York University

Rapp, James R. (1962), Professor Emeritus of Architecture, Associate Dean, College of Architecture and Environmental Design, B.Arch., University of Detroit, M.S.Arch., Columbia University

Rasmussen, David I. (1963), Professor Emeritus of Biology; B.S., M.S., University of Utah, Ph.D., University of Michigan

Rasmussen, Robert D. (1949), Professor Emeritus of Agribusiness and Resource Management; B.S., Iowa State University, M.S., Washington State University

Ratner, Esther (1988), Associate Professor of Design, B.F.A., Washington University; M.F.A., University of Michigan

Raupp, Gregory B. (1985), Professor of Chemical Engineering, Associate Dean for Research, College of Engineering and Applied Sciences, B.S., M.S., Purdue University, Ph.D., University of Wisconsin, Madison

Rausch, Jack D. (1965), Professor Emeritus of Music, B.S., M.A., Ohio State University

Rave, Wallace J. (1967), Associate Professor of Music, B.S., Illinois State University; M.M., Ph.D., University of Illinois

Ravesloot, John C. (1993), Adjunct Professor of Anthropology, B.A., M.A., Ph.D., Southern Illinois University, Carbondale

Rawlett, Kristen (2000), Faculty Associate of Nursing, B.S., Virginia Commonwealth University, M.S.N., University of South Carolina

Rawls, J. Alan (1997), Assistant Professor of Biology; B.S., University of Western Ontario (Canada), Ph.D., Saint Louis University

Ray, Timothy E. (1998), Lecturer of English, B.A., M.A., University of Central Oklahoma; Ph.D., Bowling Green State University

Ray, William J. (1968), Professor Emeritus of Curriculum and Instruction, B.S., M.S., State University of New York Buffalo, Ed.D., Wayne State University

Razatos, Anneta (1999), Assistant Professor of Chemical Engineering; B.S., University of Colorado, Boulder; Ph.D., University of Texas, Austin

Reader, Mark (1967), Professor Emeritus of Political Science; A.B., A.M., Ph.D., University of Michigan

Reber, William (1991), Professor of Music; Director, Music Theatre Program, B.M., M.M., University of Utah, D.M.A., University of Texas, Austin

Reckers, Philip M.J. (1980), Professor of Accountancy and Information Management; Director, School of Accountancy and Information Management, B.S., Quincy College, M.B.A., Washington University, Ph.D., University of Illinois

Reddick, Anna Malia (1998), Assistant Professor of Political Science, B.S., Hardin University; M.A., Ph.D., Michigan State University

Redman, Betsy J. (1988), Associate Librarian, Team Management, Technical Services Department, B.S., M.L.S., University of Arizona

- Redman, Charles L.** 1983, Professor of Anthropology, Director Center for Environmental Studies; B.A., Harvard University, M.A., Ph.D., University of Chicago
- Reed, Helen** 1985, Professor of Mechanical and Aerospace Engineering, Al B. Guelcher College, M.S., Ph.D., Virginia Polytechnic Institute and State University
- Reed, Kaye E.** (199), Assistant Professor of Anthropology Research Associate, Institute of Human Origins, B.S., Portland State University; M.A., Ph.D., State University of New York, Stony Brook
- Rees, Ellen** 1996, Assistant Professor of Languages and Literatures, B.A., Evergreen State College; M.A., Ph.D., University of Washington
- Reeves, Henry C.** 1969, Professor Emeritus of Microbiology, B.S., Franklin and Marshall College, M.A., Ph.D., Vanderbilt University
- Reffett, Kevin L.** 1995, Associate Professor of Economics, B.B.A., M.A., University of Iowa; Ph.D., Purdue University
- Regier, Philip R.** 1987, Associate Professor of Accountancy and Information Management, Director College of Business Honors Program, Associate Dean of Undergraduate Programs, College of Business, B.A., St. John's College; Ph.D., University of Illinois
- Reich, John W.** 1967, Professor of Psychology, B.A., M.S., University of Oklahoma; Ph.D., University of Colorado
- Reif, William E.** (1970) Professor Emeritus of Management, B.B.A., M.A., Ph.D., University of Iowa
- Reiman, Etsuko Obata** (1978), Associate Professor of Japanese, B.A., Keio University (Japan), M.A., Seton Hall University, M.A., Ph.D., University of Wisconsin, Madison
- Reingen, Peter H.** 1982, Davis Distinguished Research Professor of Marketing, B.B.A., Colson College, Germany, M.B.A., Ph.D., University of Cincinnati
- Reiser, Castle O.** 1955, Professor Emeritus of Chemical Engineering, B.S., Colorado State University, Pet. E., Colorado School of Mines, Ph.D., University of Wisconsin, Madison
- Reiser, Mark R.** 1988, Associate Professor of Statistics, B.S., University of Michigan; Ph.D., University of Chicago
- Reiss, Peter W.** 1976, Professor Emeritus of Business Administration, B.S., Marquette University, M.A., Arizona State University, J.D., Marquette University
- Reisslein, Martin** 2000, Assistant Professor of Electrical Engineering, M.S., Ph.D., University of Pennsylvania
- Remson, Lynne Hebert** 1992, Clinical Associate Professor of Speech and Hearing Science, B.A., M.S., University of Southwestern Louisiana
- Renaut, Rosemary A.** 1987, Professor of Mathematics, Chair Department of Mathematics, B.S., Duham University, Ph.D., University of Cambridge, United Kingdom
- Reneau, J. Hal** 1975, Professor of Accountancy and Information Management; B.B.A., M.S., Texas Tech University, Ph.D., University of Missouri, Columbia
- Reuter, Vincent G.** 196, Professor Emeritus of Operations Management, B.S., M.A., Ph.D., University of Iowa
- Reyes, Guillermo** 1996, Assistant Professor of Theatre, B.A., University of California, Los Angeles; M.F.A., University of California, San Diego
- Reynolds, Robert D.** 1970, Professor Emeritus of Music, B.M., Texas Christian University; M.M., University of Texas, Austin; Ph.D., Ohio State University
- Reynolds, Stephen J.** 1991, Professor of Geological Sciences, B.S., University of Texas, El Paso; M.S., Ph.D., University of Arizona
- Reynolds, Steven L.** 1988, Associate Professor of Philosophy; B.A., University of Chicago, M.A., Ph.D., University of California, Los Angeles
- Rez, Peter** (1985), Professor of Physics and Astronomy; B.A., University of Cambridge, United Kingdom; M.S., D.Phil., University of Oxford, United Kingdom
- Reznikoff, Sivan C.** 1973, Professor Emeritus of Design; Certificate, New York School of Interior Design, B.A., University of Southwestern Louisiana, M.A., Louisiana State University, Baton Rouge
- Rhoads, David M.** 2000, Assistant Professor of Plant Biology; B.S., Pennsylvania State University, Ph.D., Michigan State University
- Rhodes, Jewell Parker** 1997, Professor of English; B.A., M.A., D.A., Carnegie Mellon University
- Ribic, Catherine** (2000), Adjunct Professor of Anthropology, B.A., M.A., Ph.D., Arizona State University
- Rice, Glen E.** 1986, Associate Professor of Anthropology, Director Office of Cultural Resource Management, B.A., Reed College; M.A., Ph.D., University of Washington
- Rice, Ross R.** 1950, Professor Emeritus of Political Science, M.A., Ph.D., University of Chicago
- Rice, Warren** (1958), Professor Emeritus of Engineering, B.S., M.S., Ph.D., Texas A&M University
- Richa, Andrea W.** 1998, Assistant Professor of Computer Science and Engineering, B.Sc., M.Sc., Federal University of Rio de Janeiro, Brazil; M.Sc., Ph.D., Carnegie Mellon University
- Richard, Thelma Shinn** (195), Professor of English, B.A., Central Connecticut State College; M.A., Ph.D., Purdue University
- Richards, Gale L.** 1965, Professor Emeritus of Communication, B.A., University of Akron, M.A., Ph.D., University of Iowa
- Richards, Mary L.** (1978) Professor Emeritus of Nursing, B.S.N., M.S., DePaul University, Ph.D., Texas Women's University
- Richardson, Deane E.** 1970, Professor Emeritus of Exercise Science and Physical Education, B.S., Bradley University; M.A., Ed.D., Stanford University
- Richardson, Grant L.** (1953), Professor Emeritus of Agrribusiness and Resource Management, B.S., M.S., University of Arizona; Ph.D., Oregon State University
- Richardson, Jeanne M.** 1985, Associate Librarian, Team Leader, Collection Development; B.A., Lawrence University, M.S., M.S., Columbia University
- Richardson, Richard C. Jr.** 1977, Professor Emeritus of Higher Education, B.S., Castleton State College, M.S., Michigan State University, Ph.D., University of Texas, Austin
- Richert, Ranko** 1999, Assistant Professor of Chemistry and Biochemistry, Ph.D., Philipps University, Marburg, Germany
- Ridenour, Ronda L.** 1970, Associate Librarian, Team Manager, Technical Services Department, B.A., Arizona State University, M.S.L.S., University of Southern California

- Riding In, James** (1990), Associate Professor of Justice Studies; B.A. Fort Lewis College, M.A., Ph.D., University of California, Los Angeles
- Riggs, Thomas** 1998, Lecturer of Speech and Hearing Science; B.S., Metropolitan State College, Denver; M.S., University of Colorado, Boulder
- Ringenoldus, Garrit M.** 1989, Instructor of Military Science; B.S., Illinois State University
- Ringhofer, Christian** (1983), Professor of Mathematics; M.A., Ph.D., University of Vienna Austria
- Rio, Robin** (1998), Assistant Professor of Music; B.M. East Carolina University; M.A., New York University
- Ríos, Alberto Alvaro** (1982), Regents' Professor of English; B.A., M.F.A., University of Arizona
- Rippon, Stephen** (1989), Academic Associate, Division of Undergraduate Academic Services, Director, Student Success Program; B.A., M.A., Arizona State University
- Riske, Marc C.** (1985), Associate Professor of Theatre; B.F.A., North Dakota State University; M.F.A., Ph.D., Wayne State University
- Risley-Curtiss, Christina** (1992), Associate Professor of Social Work; B.A., University of Connecticut; M.S.S.W., University of Tennessee; Ph.D., University of Maryland and Baltimore
- Risseuw, John L.** 1980, Professor of Art; B.S., M.A., M.F.A. University of Wisconsin-Madison
- Ritchie, Barry G.** (1984), Professor of Physics and Astronomy, Chair, Department of Physics and Astronomy; B.S., Appalachian State University; M.S., Ph.D., University of South Carolina
- Rivera, Daniel E.** 1990, Associate Professor of Chemical Engineering; B.S., University of Rochester; M.S., University of Wisconsin, Madison; Ph.D., California Institute of Technology
- Rivers, Patrick** (1998), Assistant Professor of Health Administration and Policy; B.A., University of Ghana (Ghana); M.B.A., University of Wisconsin, Madison; Ph.D., University of Alabama
- Robbins, Earl R.** (1961), Professor Emeritus of Computer Science; B.S.E.E., Texas Technological College; M.S.E., Ph.D., Arizona State University
- Roberson, Ioriann** (1992), Associate Professor of Management; B.A., Ph.D., University of Minnesota, Twin Cities
- Roberson, Robert W.** (1989), Associate Professor of Plant Biology; B.S., M.S., Stephen F. Austin State University; Ph.D., University of Georgia
- Roberts, Carolyn** 1982, Professor Emeritus of Nursing; B.S.N., University of Western Ontario, Canada; M.Ed., Colombia University; Ph.D., Wayne State University
- Roberts, Chell A.** 1989, Associate Professor of Industrial Engineering; B.A., M.S., University of Utah; Ph.D., Virginia Polytechnic Institute and State University
- Roberts, Lauren C.** 1984, Clinical Associate Professor of Clinical Laboratory Sciences; B.S., Saint Norbert College; M.S., University of Illinois
- Roberts, Maura L.** (1994), Associate Professor of Educational Psychology and Curriculum and Instruction; B.A., Moravian College; M.A., Ph.D., Lehigh University
- Roberts, Nancy H.** (1980), Senior Lecturer of Economics; B.A., University of Texas-Arlington; M.S., Ph.D., Arizona State University
- Roberts, Robert P.** (1988), Associate Research Specialist, Center for Solid State Science; A.D., DeVry Institute of Technology
- Roberts, Thomas G.** (1970), Professor Emeritus of Curriculum and Instruction; B.A., Wake Forest University; M.A., Ph.D., University of North Carolina, Chapel Hill
- Robertson, Shannon D.** 1998, Assistant Professor of Exercise Science and Physical Education; B.Pe., M.S., McMaster University (Canada); Ph.D., Purdue University
- Robinson, Dahlia M.** 2000, Assistant Professor of Accountancy and Information Management; B.S., M.S., University of the West Indies-Barbados; M.S., Pennsylvania State University; Ph.D., University of Georgia
- Robinson, Daniel O.** 1950, Professor Emeritus of Agribusiness and Resource Management; A.B., Brigham Young University; M.S., University of Arizona; Ph.D., Ohio State University
- Robinson, Helene M.** (1967), Professor Emeritus of Music; B.A., University of Oregon; M.M., Northwestern University
- Robinson Kurpius, Sharon E.** 1978, Professor of Counseling Psychology and Counselor Education; B.S., M.S., University of Wisconsin-LaCrosse; Ph.D., Indiana University, Bloomington
- Rockmaker, Jody** (1997), Associate Professor of Music; B.M., New England Conservatory, Boston; M.F.A., Ph.D., Princeton University
- Rodriguez, Armando** 1990, Associate Professor of Electrical Engineering; B.S., Polytechnic Institute of New York-Brooklyn; M.S., Ph.D., Massachusetts Institute of Technology
- Rodriguez, Ester** (1986), Associate Professor of Nursing; B.S.N., M.S., Ph.D., Arizona State University
- Rody, Joseph** 1994, Senior Lecturer of Mathematics; B.S., M.S., University of Akron
- Roe, Sue** (2000), Faculty Associate of Nursing; B.S.N., M.S., University of Arizona; D.P.A., Arizona State University
- Roedel, Ronald J.** (1981), Professor of Electrical Engineering; B.S.E., Princeton University; M.S., Ph.D., University of California, Los Angeles
- Roen, Duane** (1995), Professor of English; Director, Center for Learning and Teaching Excellence; B.S., M.S., University of Wisconsin-River Falls; Ph.D., University of Minnesota, Minneapolis
- Rogers, Joseph** 1988, Adjunct Professor of Biology; B.A., Emory University; Ph.D., University of California, San Diego
- Rogers, Rodney** 1987, Professor of Music; B.M., University of Iowa; M.M., Arizona State University; Ph.D., University of Iowa
- Roher, Alex E.** 1997, Adjunct Professor of Biology; M.D., National University of Mexico School of Medicine; Ph.D., University of Cambridge, United Kingdom
- Rollier, Dwayne A.** 1971, Professor Emeritus of Industrial Engineering; B.S., M.S., Oklahoma State University; Ph.D., Florida State University
- Rollins, George M., Capt.** 2000, Assistant Professor of Military Science; B.A., St. Leo College
- Rolnick, Melissa** (2000), Assistant Professor of Dance; B.F.A., University of New York; M.F.A., Mills College

- Rolstad, Kellie** 1999 . Assistant Professor of Curriculum and Instruction, B.A., M.A., Ph.D., University of California, Los Angeles
- Romero, Mary** 1997, Professor of Justice Studies, B.A., Regis College; Ph.D., University of Colorado
- Romesburg, Charles E., Capt.** 1999 . Assistant Professor of Military Science; B.S., University of Pittsburgh
- Romeyn, Esther** 1998 . Assistant Professor of Interdisciplinary Humanities; B.A., M.A., University of Amsterdam, Netherlands
- Rook, Fern II** 1969 . Professor Emeritus of Technology, B.A., University of Colorado; M.A., Arizona State University
- Roosa, Mark W.** 198 . Professor of Family and Human Development, B.S., Ohio State University, M.A., Ph.D., Michigan State University
- Roper, Devon J.** 1966 . Professor Emeritus of Aeronautical Management Technology, B.S., Utah State University, M.S., Arizona State University
- Rosa, John P.** 200 . Assistant Professor of Asian Pacific American Studies, B.A., Northwestern University; M.A., Ph.D., University of California, Irvine
- Rosales, F. Arturo** 1980 . Professor of History, B.A., Arizona State University, M.A., Stanford University, Ph.D., Indiana University, Bloomington
- Rosdahl, Dana** 1994 . Instructor of Nursing; B.S.N., Montana State University, M.S., Arizona State University
- Rose, Jonathan** 1968), Professor of Law, B.A., University of Pennsylvania, LL.B., University of Minnesota, Twin Cities
- Rose, Seth D.** 196 . Professor of Chemistry and Biochemistry; B.S., University of California, Berkeley, Ph.D., University of California, San Diego
- Rosen, Bernice M.** 1986 . Instructional Professional Emerita, B.A., Brooklyn College, M.A., New York University
- Rosen, Seymour L.** 1966 . Professor Emeritus of Music, Dean Emeritus, Herberger College of Fine Arts; B.S., The Juilliard School
- Rossi, Patrick J.** 196 . Professor Emeritus of Psychology, B.S., Saint Mary's College, M.A., San Fernando Valley State College, Ph.D., University of California Riverside
- Rothschild, Mary L.** 1977 . Professor of Women's Studies and History, B.A., M.A., Ph.D., University of Washington
- Rothstein, Paul** 1998 . Assistant Professor of Design, B.F.A., University of Wisconsin-Stout, Menomonie, M.D., Illinois Institute of Technology
- Rotondi, Michael** 1999 . Professor of Architectural Dipl. Arch., Southern California Institute of Architecture
- Roundtree, Robert** 1976 . Assistant Professor of Marketing, B.B.A., Pace University, M.B.A., University of Pennsylvania, Ph.D., University of Illinois Urbana Champaign
- Rountree-Antar, Michele** 1999 . Assistant Coordinator of Field Education; B.A., University of Arizona, M.S.W., Boston University
- Rowe, Kenneth L.** (1962 . Professor Emeritus of Marketing, B.A., M.A., Northern Iowa University; Ph.D., Michigan State University
- Roy, Asim** 1983), Professor of Computer Information Systems, B.E., Calcutta University (India), M.S., Case Western Reserve University; Ph.D., University of Texas, Austin
- Roy, Radha R.** 1963 . Professor Emeritus of Physics and Astronomy, B.Sc., M.Sc., University of Calcutta (India); Ph.D., University of London, United Kingdom
- Roy, Ramendra P.** (1981 . Professor of Engineering, B.Sc., University of Calcutta (India), M.S., University of Washington, M.Sc., Ph.D., University of California, Berkeley
- Rubarth, Lorraine B.** 200 . Faculty Associate of Nursing, B.S.N., Grand Valley State University; M.S.N., Wayne State University
- Ruch, William A.** 1968 . Professor Emeritus of Management, B.S., M.B.A., D.B.A., Indiana University, Bloomington
- Rucker, Robert** 1986 . Professor Emeritus of Industrial Engineering, B.S., M.S., University of Miami; M.S., Ph.D., Arizona State University
- Rudolph, Robert A., Maj.** (1999 . Assistant Professor of Military Science, B.A., Arizona State University
- Ruedemann, Richard** 1997 . Lecturer of Mathematics, B.S., M.A., Arizona State University; Ph.D., University of South Florida
- Ruiz, Vicki L.** (1995), Professor of History and Chicana and Chicano Studies Chair, Department of Chicana and Chicano Studies, B.S., Florida State University, M.A., Ph.D., Stanford University
- Rummel, John R.** (1975), Professor Emeritus of Architecture; B.A., M.S., Stanford University
- Runger, George** (1996 . Professor of Industrial Engineering, B.S., Cornell University, Ph.D., University of Minnesota
- Rungtusanatham, Manus (Johnny)** (1998). Assistant Professor of Management, B.S., Birmingham Southern College, Ph.D., University of Minnesota
- Ruppe, Carol V.** 1962 . Librarian Emeritus; B.A., University of New Mexico; M.A., University of Denver
- Ruppert, K.D.** 1976 . Research Specialist Emeritus of Geography, B.S.E.E., University of Iowa
- Rush, James** 1990 . Associate Professor of History, Director Program in Southeast Asian Studies, B.A., Gettysburg College, M.A., Ph.D., Yale University
- Rusinak, Ramona** 1993-99-2010), Faculty Associate of Nursing; B.S., Augsburg College, M.S., Ph.D., Arizona State University
- Russell, Dennis E.** 1991 . Associate Professor of Journalism and Telecommunication, B.S., M.M.C., Arizona State University, Ph.D., University of Utah
- Russell, Paul E.** 1967 . Professor Emeritus of Electrical Engineering; B.S.E.E., B.S.M.E., New Mexico A&M University, M.S.E.E., Ph.D., University of Wisconsin, Madison, P.E.
- Russell, Scott C.** 1990 . Adjunct Professor of Anthropology, B.A., University of New Mexico; M.A., Ph.D., Arizona State University
- Russell, Timothy** 1993 . Professor of Music, B.M.Ed., Northwestern University; M.A., Ph.D., Ohio State University
- Russo, Nancy Felipe** 1985 . Regents Professor of Psychology; B.A., University of California, Davis; Ph.D., Cornell University
- Russomanno, Joseph A.** 1994 . Associate Professor of Journalism and Telecommunication, B.A., University of Colorado, Denver, M.A., University of Missouri, Columbia, Ph.D., University of Colorado

Rutherford, Robert B. Jr. 1976, Professor of Curriculum and Instruction, Director of the discipline, Ph.D. Program in Curriculum and Instruction, Associate Director, Research and Graduate Education, B.S., M.Ed., University of Virginia; a Ed.S., Ph.D., Vanderbilt University

Rutowski, Ronald J. 1976, Professor of Biology, B.A., University of California, Santa Cruz; Ph.D., Cornell University

S

Sack, John 1995, Lecturer of Management; B.B.A., M.B.A., University of Toledo; Ph.D., Arizona State University

Sacks, Benjamin (1963), Professor Emeritus of History, B.A., University of New Mexico, M.A., McGill University, Canada; Ph.D., Stanford University

Sackton, Frank J. 1976, Professor Emeritus of Public Affairs, B.S., University of Maryland, College Park; M.P.A., Director of Humane Letters, Arizona State University

Sadalla, Edward K. 1974, Professor of Psychology, B.A., University of California, Berkeley; Ph.D., Stanford University

Saenz, Delia S. (1989), Associate Professor of Psychology, B.A., Pan American University, M.A., Ph.D., Princeton University

Sager, Harvey M. 1977, Librarian, Hayden Reference Services, B.A., San Francisco State College, M.A., California State University, Chico, M.A., University of Denver

Saks, Michael 2001, Professor of Law, B.A., B.S., Penn State University, M.S.L., Yale University, M.A., Ph.D., Ohio State University

Saldaña, Johnny (1981), Professor of Theatre; B.F.A., M.F.A., University of Texas, Austin

Sale, Gregory 1997, Curator of Education, University Art Museum, Assistant Museum Professional; B.A., B.F.A., Virginia Commonwealth University, M.F.A., University of Arizona

Salerno, Nicholas A. (1961), Professor Emeritus of English, B.A., M.A., Arizona State University, Ph.D., Stanford University

Salmirs, Seymour (1981), Professor Emeritus of Technology, B.A.E., M.S.A.E., Georgia Institute of Technology

Saltz, Charlene (2000), Academic Associate, Center for Environmental Studies; Environmental Education Coordinator, B.A., Emory University, M.S., Antioch New England Graduate School

Salvatore, Joseph Raphael 1995, Adjunct Faculty of Microbiology, M.D., Universidad Autonoma de Ciudad de México

Salvucci, Michael E. 1995, Adjunct Faculty of Plant Biology; B.S., Pennsylvania State University, M.S., Ph.D., University of Florida

Samuelson, Hava Tirosh 1999, Associate Professor of History; B.A., State University of New York, Stony Brook, Ph.D., Hebrew University of Jerusalem (Israel)

Samuelson, Norbert M. 1995, Professor Emeritus of Religious Studies, Harold and Jean Grossman Chaim Weizman Studies, B.A., Northwestern University, B.H.L., M.H.L., Hebrew Union College Jewish Institute of Religion, Ph.D., Indiana University

San Martin, Ignacio 1991, Associate Professor of Planning and Landscape Architecture, B.S., Portland State University; Dip. Arch., Design, Bilbao Technical Institute, Spain; M.C.P., M.A., University of California, Berkeley

Sanchez, Angel 1991, Associate Professor of Languages and Literatures, Licenciado, University Complutense, Spain; M.A., University of Minnesota, Twin Cities; Ph.D., University of Minnesota, Minneapolis

Sanders, Bevie T. 1977, Professor Emeritus of Accounting and Information Management; B.B.A., North Texas State University; M.S., Texas A&M University; Ph.D., University of Texas, CPA, Arizona, Texas

Sandler, Irwin 1961, Professor of Psychology, B.A., Bryn Mawr College; Ph.D., University of Rochester

Sands, Kathleen M. 1977, Professor of English, B.A., Fort Wright College of the Holy Names; M.A., Ph.D., University of Arizona

Sanft, Alfred C. (1971), Associate Professor of Design, B.F.A., Brigham Young University, M.F.A., Bachelor of Design (Switzerland)

Sankey, Otto F. 1957, Professor of Physics and Astronomy, B.S., University of Missouri, St. Louis; M.S., Ph.D., Washington University

Sansone, Fred J. 1965, Professor Emeritus of Mathematics; B.S.E., M.S.E., University of Michigan; M.S., Ph.D., Rutgers, The State University of New Jersey

Santanam, Raghu 1978, Assistant Professor of Computer Information Systems, B.E., National Institute of Engineering, India; M.S., Indian Institute of Technology, India; M.S., Ph.D., State University of New York, Buffalo

Santello, Marco 1991, Assistant Professor of Exercise Science and Physical Education, B.Sc., Higher Institute of Physical Education, Italy; M.Phil., Ph.D., University of Birmingham, United Kingdom

Santos, Manuel 1991, Professor of Economics, Licenciatura, Autónoma University of Madrid, Spain; M.A., Ph.D., University of Chicago

Santos de Barona, Maryann 1981, Professor of Psychology in Education, B.S., City University of New York, M.A., Ph.D., University of Texas, Austin

Sardi, Virginia 1999, Lecturer of Art, B.A., M.F.A., Arizona State University

Sargent, Charles S. Jr. 1971, Professor Emeritus of Geography; B.A., University of Wisconsin; M.A., Ph.D., University of California, Berkeley

Saric, William 1984, Professor of Informatics; B.S., Illinois Institute of Technology, M.S., University of New Mexico, Ph.D., Illinois Institute of Technology

Sater, Vernon E. 1962, Professor of Chemical Engineering, Associate Chair, Department of Chemical and Materials Engineering, B.S.Ch.E., M.S.Ch.E., Ph.D., Illinois Institute of Technology

Satterlie, Richard A. 1951, Professor of Biology, B.A., Senior at State University, Ph.D., University of California, Santa Barbara

Satterthwaite, Lester L. Jr. 1965, Professor Emeritus of Educational Media and Computers; B.S., M.S., Ed.D., Indiana University, Bloomington

Sattler, Howard E. 1967, Professor Emeritus of Education; B.S., M.S., Ph.D., Arizona State University

Saubolle, Michael 1975, Adjunct Faculty of Microbiology; B.S., Ph.D., University of California, Davis

- Savage, Nevin W.** 1959 . Professor Emeritus of Mathematics. B.S. M.A. Pennsylvania State University. Ph.D., University of California, Los Angeles
- Savage, Stephen H.** 1998 . Adjunct Professor of Anthropology. B.A., Cincinnati Bible Seminary. M.A., University of South Carolina. Ph.D., Arizona State University
- Savard, Jeannine A.** 1990 . Associate Professor of English. B.S., State University of New York, Plattsburg. M.A., University of New Hampshire
- Savenye, Wilhelmina C.** (1991) . Associate Professor of Psychology in Education; B.A., University of Washington. M.Ed. Ph.D., Arizona State University
- Sawhney, Anil** 1999 . Associate Professor of Construction, B.S.E. Institution of Engineers, India; M.S., School of Planning and Architecture, India; Ph.D., University of Alberta, Canada
- Sayles, Judy** 1997 . Clinical Assistant Professor of Nursing. B.S.N., University of Michigan; M.S., Arizona State University
- Schabacker, Joseph C.** 1963 . Professor Emeritus of Management; B.S., Temple University, M.B.A., Ph.D., University of California, Los Angeles
- Schade, Thomas V.** 1974 . Professor Emeritus of Justice Studies. B.A., Hope College; M.A., Ph.D., Western Michigan University
- Schall, Merri H.** 1960-66, 1967 . Professor Emeritus of Curriculum and Instruction. B.A. A.B. on College. M.S. Ed.D., Arizona State University
- Schatzki, George** 2000 . Professor of Law. A.B., L.B.L.L.M., Harvard University
- Schaumburg, Donald R.** 1953 . Professor Emeritus of Art. B.A., College of Arts and Crafts. M.F.A., Carleton Graduate College
- Scheatzle, David G.** (1991), Professor of Architecture. B.S., Kent State University. M.S.E., Arizona State University. Arch.D., University of Michigan
- Scheck, Adrienne C.** 1997 . Adjunct Professor of Biology. B.A., University of Rochester; Ph.D., Rensselaer Polytechnic Institute
- Scheiner, Georganne** 1983 . Associate Professor of Women's Studies. B.A., Ithaca College; M.A., University Western Ontario, Canada; Ph.D., Arizona State University
- Scheiner, Samuel M.** 2000 . Adjunct Professor of Biology. B.S., M.S., Ph.D., University of Chicago
- Scheinfeld, Michael R.** 1990 . Professor of Physics and Astronomy. B.S., Massachusetts Institute of Technology. M.S., Ph.D., Cornell University
- Schexnayder, Clifford J.** 1994 . Visiting Eminent Scholar of Construction. B.C.E., M.S.C.E., Georgia Institute of Technology. Ph.D., Purdue University
- Schineller, Fred** 1995 . Senior Lecturer of Mathematics; B.S., University of California, Santa Barbara. M.S., Arizona State University
- Schlacter, John L.** 1969 . Professor of Marketing. B.B.A., Case Western Reserve University. M.B.A., Ph.D., Ohio State University
- Schlee, Edward F.** (1990), Professor of Economics. B.A., North Texas State University. M.S., Ph.D., University of Illinois
- Schleif, Corine** 1988 . Associate Professor of Art. B.A., Concordia College. M.A., Washington University. Ph.D., University of Bamberg, Germany
- Schmid, Maureen** (1990), Associate Research Scientist, Director, Tandem Translation Project. B.A., Saint Mary's College of Notre Dame; M.A., University of Notre Dame. Ph.D., State University of New York, Buffalo
- Schmidt, Jean M.** 1966 . Professor of Microbiology. B.A., M.S., University of Iowa. Ph.D., University of California, Berkeley
- Schmidt, Kevin E.** 1989 . Professor of Physics and Astronomy; A.B., Washington University. M.S., Ph.D., University of Illinois
- Schmidt, Randall B.** 1968 . Professor of Art; B.A., Hamline University; M.A., University of New Mexico
- Schmidt, Sherrie** (1990), Librarian, Dean, University Libraries; B.A., Ohio State University; M.L.S., Emory University
- Schneberger, Lois I.** 1969 . Librarian, Head, Preservation. B.A., Viterbo College. M.L.S., Emporia State University
- Schneider, Anne L.** 1989 . Professor of Justice Studies, Dean, College of Public Programs. B.A., M.A., Oklahoma State University; Ph.D., Indiana University, Bloomington
- Schneider, Ingrid** 1995 . Associate Professor of Recreation Management and Tourism. B.S., M.S., University of Minnesota. Ph.D., Emerson University
- Schneller, Eugene S.** 1985 . Professor of Health Administration and Policy, Director, School of Health Administration and Policy; B.A., Post College. Ph.D., New York University
- Schober, Juliane** 1991 . Associate Professor of Religious Studies. B.A., University of Northern Colorado. M.A., Ph.D., University of Illinois
- Schoebel, Henry L.** (1991), Associate Professor of Art, B.F.A., Syracuse University. M.F.A., University of Maryland, College Park
- Schoen, Robert A.** 1966 . Professor Emeritus of Technology. B.S., M.S., Arizona State University
- Schoenwetter, James** 1967 . Professor Emeritus of Anthropology. A.B., University of Chicago. M.S., University of Arizona. Ph.D., Southern Illinois University
- Schroder, Dieter K.** 1981 . Professor of Electrical Engineering, Co-director, Center for Low Power Electronics. B.S.E.F., M.S.E.E., McGill University, Canada; Ph.D., University of Illinois
- Schroeder, Milton R.** 1969 . Professor of Law. B.A., Wesleyan University. J.D., University of Chicago
- Schuback, Gertrud B.** 1966 . Professor Emeritus of German; B.A., M.A., Arizona State University
- Schultz, Joseph J.** (1983), Professor of Accountancy and Information Management. B.S., M.B.A., Mississippi State University; Ph.D., University of Texas, Austin. C.P.A., Mississippi
- Schultz, Mary F.** (1999), Faculty Associate of Nursing. B.S.N., M.S.N., University of Phoenix
- Schuring, Martin** 1992 . Assistant Professor of Music. B.M., Curtis Institute of Music. M.A., Arizona State University
- Schutte, Jerry** (1988), Associate Professor of Art. B.A., Fort Hays State University. M.F.A., Arizona State University
- Schwalm, David E.** 1986 . Associate Professor of English, Dean of East College, Vice Provost of Arizona State University East. B.A., Carleton College. M.A., Ph.D., University of Chicago
- Schwartz, Andrew B.** (1993) Faculty Research Associate of Bioengineering. B.A., Ph.D., University of Minnesota
- Scoggin, Janet** (1989) . Professor Emeritus of Nursing. B.S.N., University of Portland. M.S., Ph.D., Arizona State University

- Scott, Ronald Jr., Col.** (1999). Professor of Aerospace Studies; Chair, Department of Aerospace Studies, B.S., United States Air Force Academy, Colorado Springs; M.A., University of Northern Colorado; Greeley, M.A., University of North Texas, Denton
- Scowen, Paul A.** (1992). Assistant Research Professor of Physics and Astronomy, B.S., University of Birmingham, United Kingdom; M.S., Ph.D., Rice University
- Searfoss, Lyndon W.** (1973). Professor of Curriculum and Instruction; B.S., West Chester State College; M.A., Ph.D. Syracuse University
- Searing, Kimberly** (2000). Faculty Associate of Nursing, B.S.N., M.S., Arizona State University
- Sears, Robert L.** (1986). Senior Research Administrator Emeritus Center for Energy Systems Research, B.S., U.S. Military Academy; M.S.E., Arizona State University
- Seaton, Helen J.** (1987). Librarian, Noble Science Reference Services, B.A., Rutgers, The State University of New Jersey, M.L.S., University of Missouri, Columbia
- Sebald, Hans** (1963). Professor Emeritus of Sociology; B.A., Manchester College; M.S., Ph.D., Ohio State University
- Segal, Elizabeth A.** (1995). Professor of Social Work, B.A., Brandeis University, M.S.W., Boston University, Ph.D., University of Illinois, Chicago
- Segura, Joseph M.** (1979). Associate Professor of Art; B.A., M.F.A., Southern Illinois University, Carbondale
- Sehsted, Colene R.** (1967). Assistant Professor of Nursing, B.S.N., University of Arkansas, Fayetteville, M.S.N., University of Maryland, Baltimore
- Seipp, Kenneth F.** (1963). Professor Emeritus of Music, B.S., Hartwick College, M.M., University of Kansas, Music Education, Indiana University, Bloomington
- Selkirk, Susan** (1977). Associate Research Professional of Geological Sciences, B.A., M.A., Arizona State University
- Sell, Susan** (1995). Adjunct Faculty of Microbiology, B.A., University of California, Berkeley; Ph.D., University of Utah Medical Center
- Sellheim, Eckart** (1989). Professor of Music Concert Diploma, Academy of Music, Germany
- Sen, Arunabha** (1986). Associate Professor of Computer Science and Engineering, B.E., Jadavpur University, India; Ph.D., University of South Carolina
- Senner, Wayne M.** (1973). Associate Professor of German, B.A., Portland State University; M.A., University of Washington; Ph.D., University of Illinois
- Sensibar, Judith L.** (1985). Professor of English, B.A., Vassar College; M.A., Ph.D., University of Chicago
- Sentinery, Robert** (1994). Faculty Associate of Design, B.S.D., Arizona State University
- Serwint, Nancy J.** (1988). Associate Professor of Art, B.A., University of Illinois, M.A., University of Chicago, M.A., Ph.D., Princeton University
- Shackle, Linda A.** (1984). Librarian, Noble Science Reference Services, Interim Head, Noble Science and Engineering Library Reference Services; B.A., State University of New York, Oswego, M.L.S., State University of New York, Albany
- Shah, Jami** (1984). Professor of Engineering, B.S.M.E., University of Karachi (Pakistan); M.S., University of Pittsburgh; Ph.D., Ohio State University
- Shao, Benjamin** (1999). Assistant Professor of Computer Information Systems, B.S., M.S., National Chiao Tung University, Taiwan; Ph.D., State University of New York, Buffalo
- Shapiro, Joan Rankin** (1997). Adjunct Professor of Biology, B.S., Westminster College; M.A., Hofstra University, Ph.D., Cornell University Medical College
- Sharer, Jon W.** (1975). Professor of Art, Assistant Director, School of Art, B.A., Roosevelt University; M.S., Illinois Institute of Technology, Ph.D., Ohio State University
- Sharma, Anu** (1995). Assistant Professor of Speech and Hearing Science; B.S., University of Bombay, India; M.A., Ph.D., Northwestern University
- Sharma, Renu** (1985). Associate Research Scientist, Center for Solid State Science, B.S., B.Ed., Punjab University (India), M.S., Ph.D., University of Stockholm (Sweden)
- Sharp, Thomas** (1996). Associate Professor of Geological Sciences; B.S., University of Minnesota, M.S., Ph.D., Arizona State University
- Sharp, William P.** (1979). Senior Research Specialist of Plant Biology, B.A., University of Northern Iowa, M.S., Arizona State University
- Shaw, Milton C.** (1978). Professor Emeritus of Engineering, B.S.M.E., Drexel University; M.E.Sc., Sc.D., University of Cincinnati, Dr.H.C., University of Louvain, Belgium
- Shearer, Nelma** (1993). Instructor of Nursing; B.S., South Dakota State University; M.Ed., University of Missouri, St. Louis, M.S., Southern Illinois University, Edwardsville
- Shearman, Harriett Joy** (1995). Clinical Assistant Professor of Nursing; B.S.N., University of Iowa; M.S., Boston University
- Shears, Brenda L.** (1987). Assistant Research Administrator; Research Coordinator, Center for Environmental Studies, B.A., Arizona State University, M.A., Hunter College
- Shell, Leon G.** (1967). Professor Emeritus of Counselor Education, B.A., University of Colorado, A.M., Ed.D., University of Northern Colorado
- Shellans, Michael J.** (1992). Senior Lecturer of Music, B.M., University of Arizona; M.M., Arizona State University
- Shen, Jun** (1996). Associate Professor of Electrical Engineering; B.S., South China University of Science and Technology (China); M.S., Texas Tech University; Ph.D., University of Notre Dame
- Sheppard, Douglas C.** (1971). Professor Emeritus of Spanish; B.A., Montana State University, M.A., Ph.D., University of Wisconsin, Madison
- Sherman, Carolina Espejel** (2000). Lecturer of Spanish, B.A., University of Nebraska, Lincoln, M.A., Boston College
- Sherman, Thomas L.** (1964). Professor Emeritus of Mathematics, B.A., University of California, Los Angeles, M.S., Ph.D., University of Utah
- Sheydayi, E. Yury** (1973). Professor Emeritus of Architecture, B.S.C.E., University of Arizona; M.S.C.E., Arizona State University
- Shinn, Randall A.** (1978). Professor of Music, B.A., Southwestern Oklahoma State University; M.M., University of Colorado, D.M.A., University of Illinois

- Shipp, Vernon E.** 1966, Professor Emeritus of Art, B.S., Graduate Council College, M.A., Arizona State University
- Shlyakhtenko, Luda** 1993, Adjunct Faculty of Microbiology, M.S., Ph.D. Moscow Physica Technical Institute, Russia
- Shrader, Tina** 1999, Assistant Librarian, B.A., Bethany College, Bethany; M.S.L.I.S., University of Kentucky
- Shrednick, Harvey R.** 1995, Senior Lecturer of Computer Information Systems; B.S., City College of New York, M.B.A., Baruch College
- Shriver, Keith A.** 1982, Professor Emeritus of Analytics and Information Management, B.S., Limited College, M.S., Arizona State University, Ph.D., University of Texas, Austin, CPA, Arizona
- Shuman, I. Gayle** 1974, Professor Emeritus of Justice Studies, B.S., M.A., Ed.D., Arizona State University
- Shunk, Dan L.** 1954, Associate Professor of Industrial Engineering, B.S.I.E., M.S.I.E., Ph.D., Purdue University
- Si, Jennie** 1991, Professor of Electrical Engineering, B.S., M.S., Tsinghua University, China, Ph.D., University of Notre Dame
- Sieben, Nandor** 2002, Lecturer of Mathematics, B.S., Eotvos Lorand University, Hungary, M.A., Ph.D., Arizona State University
- Sieradzki, Karl** 1994, Professor of Mechanical and Aerospace Engineering, B.S., Utica College of Syracuse University, M.S., Ph.D., Syracuse University
- Sierks, Michael R.** 2002, Associate Professor of Chemical Engineering, B.S., Stanford University, M.S., Cascade State University, Ph.D., Iowa State University
- Sierra-Maldonado, Rodrigo** 1995, Assistant Professor of Geography, B.S., M.S., Catholic University of Ecuador, M.S., Ph.D., Ohio State University
- Siferd, Sue Perrott** 1989, Associate Professor of Supply Chain Management, Director, Undergraduate Supply Chain Management Program, B.S., Denison University; M.B.A., Wright State University, M.A., Ph.D., Ohio State University
- Silver, Benjamin** (1971), Professor Emeritus of Journalism and Telecommunication, B.A., M.A., University of Iowa
- Simhony, Avital** 1994, Associate Professor of Political Science, B.A., M.A., University of Haifa, Israel, Ph.D., University of Oxford, United Kingdom
- Simmons, Douglas J.** 1963, Professor Emeritus of French, A.B., Wabash College, M.A.T., Harvard University, Certificat de français usuel, de révisions pour l'entrée, Certificat de professionnalisation, Sorbonne University (France)
- Simmons, Howard** 1996, Professor Emeritus of Educational Leadership and Public Studies; B.S., Sprague High School, M.A.T., Indiana University, Ph.D., Florida State University
- Simon, Arley W.** 1959, Associate Research Professor of Anthropology, B.A., Montana State University; M.A., Oregon State University, Ph.D., Arizona State University
- Simon, Sheldon** (1975), Professor of Political Science, B.A., University of Missouri, Twin Cities, M.A., Princeton University, Ph.D., University of Minnesota, Twin Cities
- Simpson, Brooks** 1990, Professor of History, B.A., University of Virginia, M.A., Ph.D., University of Wisconsin, Madison
- Sinca, Donal** 1995, Associate Professor of Speech and Hearing Science, Director, Executive Committee, Speech and Hearing Science; B.S., Purdue University, Ph.D., Washington University, St. Louis
- Singh, Sheo Bux** 1983, Associate Research Professor, Cancer Research Institute, B.S., M.S., Gorakhpur University, India, Ph.D., Avadh University, India
- Singhal, Avi C.** 1972, Professor of Civil and Environmental Engineering, B.S., Math, Agronomy, B.Sc. Engr., B.Sc. Hons., St. Andrews University, United Kingdom, S.M., C.E., Sc.D., Massachusetts Institute of Technology
- Sinha, Rajiv K.** 1989, Associate Professor of Marketing, B.A., M.A., Deh University, India, Ph.D., Pennsylvania State University
- Sirkis, Murray D.** 1968, Professor Emeritus of Electrical Engineering, B.S., Massachusetts Institute of Technology, M.S., Ph.D., University of Illinois
- Skiba, Christopher J.** 1987, Associate Research Professional of Geological Sciences, B.S., Arizona State University
- Skibo, Edward B.** 1982, Professor of Chemistry and Biochemistry; B.S., M.S., Drexel University, Ph.D., University of California, San Francisco
- Skindlov, Jonathan A.** 1993, Adjunct Professor of Geography, B.A., Saint Olaf College, M.A., Ohio University, Ph.D., University of Delaware
- Skoldberg, Phyllis** 1977, Professor of Music, B.M., M.M., New England Conservatory of Music, M.M.E., D.M., Indiana University, Bloomington
- Skromme, Brian J.** 1989, Associate Professor of Electrical Engineering, B.S., University of Wisconsin, Madison; M.S., Ph.D., University of Illinois
- Smeltzer, Larry R.** 1986, Professor of Supply Chain Management, B.S., University of Montana, M.A., University of Nebraska, Ed.D., Northern Illinois University
- Smith, Andrew T.** 1978, Professor of Biology, A.B., University of California, Berkeley, Ph.D., University of California, Los Angeles
- Smith, Arthur B., Jr.** 1967, Professor Emeritus of General Business, B.S., Hardin Simons University, M.B.A., Ed.D., University of Huston
- Smith, Beth** 2000, Associate Law Librarian; Assistant Director, Law Library, B.A., Centenary College, M.L.S., J.D., University of Washington
- Smith, Charles B.** 1964, Professor Emeritus of General Business, B.S., Drake University, M.S., New Mexico Highlands University, Ed.D., University of Northern Colorado
- Smith, Cheryl Aubin** 1996, Faculty Associate of Nursing, B.S.N., University of Arizona, M.S., Arizona State University
- Smith, David J.** 1984, Regents Professor of Physics and Astronomy at Center for Solid State Science, Director, Center for Solid State Science, B.Sc., Ph.D., D.Sc., University of Melbourne, Australia
- Smith, Georgia A.F.** 1985, Associate Professor of Biology, B.A., University of California, Santa Barbara, M.P.H., University of Michigan, Ph.D., University of California, Riverside
- Smith, Gregory D.** 1999, Assistant Professor of Mathematics, B.S., Massachusetts Institute of Technology, Ph.D., University of California, Davis

- Smith, Hal L.** 1979 . Professor of Mathematics; B.A. Ph.D., University of Iowa
- Smith, Harvey A.** 1977 . Professor of Mathematics, B.S., Lehigh University, M.S., A.M., Ph.D., University of Pennsylvania
- Smith, Henry Charles** 1989 . Professor Emeritus of Music; B.A., University of Pennsylvania, Artist Diploma, Curtis Institute of Music
- Smith, Jeffrey B.** (199 J), Associate Professor of Music, M.M., University of Illinois; D.M.A., University of North Texas
- Smith, Karen Ann** 1999 . Associate Professor of Curriculum and Instruction, B.A., University of the Americas (Mexico); M.A., Ph.D., Arizona State University
- Smith, L. Christian** (1971), Associate Professor of History; B.A., Union College; M.A., Ph.D., University of Illinois
- Smith, Lehi T.** (1959 . Professor Emeritus of Mathematics, B.S., M.A., Arizona State University; Ed.D., Stanford University
- Smith, Marion W.** 1952 . Professor Emeritus of Music, B.S., Capital University, M.M., American Conservatory of Music
- Smith, Mary Lee** (1986), Professor of Educational Leadership and Policy Studies and Psychology in Education; Academic Program Coordinator, Education Policy Studies; B.A., M.P.S., Ph.D., University of Colorado
- Smith, Ralph E.** (1970 . Professor of Accountancy and Information Management, B.B.A., Washburn University of Topeka; M.S., Ph.D., University of Kansas; C.P.A., Kansas
- Smith, Richard L.** (1967 . Professor Emeritus of Industrial Engineering, B.S., Washington University, M.S. Ohio State University; Ph.D., Arizona State University
- Smith, Ronald D.** (1962 . Professor Emeritus of History; A.B., San Diego State College. Ph.D., University of Southern California
- Smith, Stanley E.** (1977), Professor Emeritus of Journalism and Telecommunication, B.A., Colgate University M.A. Purdue University
- Smith-Daniels, Dwight E.** 198 . Associate Professor of Management B.B.A. University of Michigan, Ph.D., University of Arizona
- Smith-Daniels, Vicki L.** 1987), Professor of Operations Management; B.B.A., University of San Diego Ph.D., Ohio State University
- Smith-Dawson, Beverly** 1998 . Lecturer of Theatre, B.S., M.H.S.A., Arizona State University, M.F.A., Yale University
- Sneed, Jim** (1990), Faculty Associate of Design; B.S., Arizona State University
- Sneed, Jimmie R.** 1988 . Faculty Associate of Construction, B.S., Arizona State University
- Snow, Robert** (1970), Professor Emeritus of Sociology; B.S., M.A., Ph.D., University of Minnesota, Twin Cities
- Snyder, Ernest E. Jr.** 1958 . Professor Emeritus of Physics and Astronomy Science Education; A.B., M.A., Colorado State University, Ed.D., New York University
- Snyder, Lester M. Jr.** (1967), Professor Emeritus of Counseling Psychology, B.S., Millersville State College; M.Ed., Western Maryland College, Ph.D., University of Michigan
- Soergel, Philip M.** 1989 . Associate Professor of History, B.A., Muskingum College, A.M., Ph.D., University of Michigan
- Solis, Theodore** 1989 . Associate Professor of Music; B.A., Arizona State University, M.A., University of Hawaii Manoa Ph.D., University of Illinois
- Somerville, Susan C.** 1977 . Professor of Psychology; B.A., University of New England Australia, Ph.D., Australian National University Australia
- Sommerfeld, Milton R.** 1968 . Professor of Plant Biology, Associate Dean, College of Liberal Arts and Sciences, B.S., Southwest Texas State College, Ph.D., Washington University
- Song, Yuwu** 1999 . Assistant Librarian; B.A., Luo Yang Foreign Languages University, China (China), M.A., Clemson University, M.L.I.S., University of Texas, Austin
- Sonmez, Sevil F.** 1995 . Assistant Professor of Recreation Management and Tourism, B.B.A., Bernard M. Baruch College, M.P.R.T.M., Clemson University; Ph.D., Pennsylvania State University
- Sonntag, Volker K.H.** 1990 . Adjunct Professor of Engineering; B.A., Arizona State University, M.D., University of Arizona
- Soroka, Ellen** (1996), Assistant Professor of Architecture; B.F.A., Pratt Institute, M.Arch., Massachusetts Institute of Technology
- Sousa, Karen H.** (1998), Assistant Professor of Nursing; B.S., M.S., Ph.D., University of California, San Francisco
- Spanias, Andreas S.** 1988), Professor of Electrical Engineering, B.S.E.E., M.S.E.E., Ph.D., West Virginia University
- Spanias, Photini** 1998 . Lecturer of Curriculum and Instruction, B.A., M.Ed., Ed.D., Arizona State University
- Speer, Therese** 1997 . Faculty Associate of Nursing; B.S.N., Salve Regina University; M.S., University of Arizona
- Spellman, Catherine** 1995), Assistant Professor of Architecture; B.A., B.Arch., Rice University, M.Arch., University of California, Los Angeles
- Spence, John C.H.** 1976), Regents' Professor of Physics and Astronomy, M.Sc., Ph.D., University of Melbourne (Australia)
- Spielberg, John** 1990 . Associate Professor of Mathematics; B.S., Stanford University; Ph.D., University of California, Berkeley
- Spielmann, Katherine A.** 1987 . Professor of Anthropology; A.B., Harvard University; M.A. Ph.D., University of Michigan
- Spiers, James V.** 1990 . Senior Lecturer of Marketing; B.S., Weber State College, M.A., University of Northern Colorado
- Spindler, Robert P.** 1988 . Associate Archivist, Head, Department of Archives and Manuscripts; B.A., M.A., Boston University M.S., Simmons College
- Spinosa, Frank** 1965 . Professor Emeritus of Music, B.M., M.A., Boston University; D.M.A., University of Illinois
- Spinrad, Tracy** (2000 . Assistant Professor of Family and Human Development, B.A., University of California, Irvine, M.S., Ph.D., Pennsylvania State University
- Spring, Robert S.** 1988 . Professor of Music, B.M., M.M., D.M.A., University of Michigan
- Spritzer, Ralph S.** (1986), Visiting Professor of Law, B.S., LL.B., Columbia University
- Spruyt, Hendrik** 1999 . Associate Professor of Political Science; B.A., Leiden University (Netherlands), M.A., Ohio State University, Ph.D., University of California San Diego
- Squires, Kyle D.** 1997), Associate Professor of Mechanical and Aerospace Engineering, B.S., Washington State University M.S., Ph.D., Stanford University

- Squires, Rose L.** (1951), Professor Emeritus of Nursing, B.S. Duquesne University. M.A., Ed.D., Columbia University
- St. Louis, Robert D.** (1982), Associate Professor of Computer Information Systems, A.B., Rockhurst College; M.S., Ph.D., Purdue University
- Stafford, Kenneth R.** (1957), Professor Emeritus of Education, B.A., M.Ed., Ph.D., University of Oklahoma
- Stafford, Mary E.** (1994), Associate Professor of Educational Psychology, B.A., University of Texas-Austin; M.Ed., University of Houston; Victoria, Ph.D., University of Texas, Austin
- Stage, Christina** (1992), Lecturer/Division of Undergraduate Academic Services, Director Bachelor of Interdisciplinary Studies, B.J., University of Nebraska, Lincoln; M.A., Ohio University, Ph.D., Arizona State University
- Stahl, Robert** (1978), Professor of Curriculum and Instruction, B.A., M.A., Ed.D., University of Florida
- Staley, Frederick A.** (1970), Professor of Curriculum and Instruction, Associate Director, Initial Teacher Certification, B.A., M.A., Western Michigan University, Ph.D., Michigan State University
- Stalzer, Frank S.** (1955), Professor Emeritus of Music, B.M. Ed. University of Kansas, M.M., Eastman School of Music
- Stamm, Jill** (1998), Clinical Assistant Professor of Psychology in Education, B.A., DePaul University; M.A., Ph.D., Arizona State University
- Stanford, Michael** (1992), Senior Lecturer of the Barrett Honors College, B.A., Duke University; M.A., Ph.D., University of Virginia
- Stange, Jean B.** (1977), Professor Emeritus of Family and Human Development, B.S., Iowa State University; M.S., University of Minnesota, Twin Cities
- Stanley, James T.** (1965), Professor Emeritus of Materials Science and Engineering, B.S., M.S., Ph.D., University of Illinois
- Stanton, Ann M.** (1988), Professor of Law, B.A., University of Minnesota, Twin Cities; Ph.D., J.D., Stanford University
- Stanton, Dan** (2000), Assistant Librarian, Government Documents/Maps Collection, B.A., Trinity College; M.L.S., University of Arizona
- Stark, Barbara L.** (1972), Professor of Anthropology, B.A., Rice University; M.Phil., Ph.D., Yale University
- Starrfield, Sumner G.** (1972), Professor of Physics and Astronomy, B.A., University of California, Berkeley; M.A., Ph.D., University of California, Los Angeles
- Stauffer, Sandra L.** (1990), Professor of Music, B.S., West Chester University; M.M., Ph.D., University of Michigan
- Steadman, Lyle B.** (1971), Assistant Professor of Anthropology, B.A., Occidental College; M.A., University of California, Los Angeles; Ph.D., Australia National University, Australia
- Stearns, Mary Beth** (1987), Regents' Professor Emeritus of Physics and Astronomy, B.S., University of Minnesota, Twin Cities; Ph.D., Cornell University
- Steere, Carl J.** (1960), Professor Emeritus of Education, B.A., Albion College; M.A., Arizona State University
- Steffl, Bernita M.** (1961), Professor Emeritus of Nursing, B.S.N., M.P.H., University of Minnesota, Twin Cities
- Steimle, Timothy C.** (1987), Professor of Chemistry and Biochemistry; B.S., Michigan State University; Ph.D., University of California, Santa Barbara
- Steinbart, Paul** (1977), Professor of Accounting and Information Management, B.A., University of Illinois; M.B.A., Southern Illinois University; Ph.D., Michigan State University
- Steiner, Frederick** (1989), Professor of Planning and Landscape Architecture, Director, School of Planning and Landscape Architecture, B.S.D., M.C.P., University of Cincinnati; M.R.P., M.A., Ph.D., University of Pennsylvania
- Steiner, Sue** (1996), Associate Professor of Social Work, B.A., Brandeis University; M.S.W., San Francisco State University; Ph.D., University of Washington
- Stelmach, George E.** (1990), Professor of Exercise Science and Physical Education, B.S., University of Illinois; M.A., Ed.D., University of California, Berkeley
- Stephens, Nancy J.** (1979), Associate Professor of Market Research, Night M.B.A. Program, B.S., M.S., University of Illinois; Ph.D., University of Texas, Austin
- Stephenson, Christine E.** (1995), Adjunct Professor of Biology, B.S., University of Ulster, United Kingdom; Ph.D., The Queen's University of Belfast, United Kingdom
- Stephenson, Larry K.** (1986), Adjunct Professor of Geography, B.S., M.A., Arizona State University; Ph.D., University of Cincinnati
- Sterling, Pamela** (1999), Assistant Professor of Theatre, B.F.A., M.F.A., University of Washington
- Stevens, Scott M.** (1995), Assistant Professor of English, B.A., Dartmouth; M.A., Ph.D., Harvard University
- Steverson, Norris J.** (1932), Professor Emeritus of Physical Education, B.A., Arizona State University; M.S., University of Southern California
- Stewart, Barry D.** (1987), Associate Senior Research Specialist of Electrical Engineering, B.S., West Virginia University
- Stewart, Donald G.** (1964), Professor Emeritus of Mathematics, B.A., M.S., Utah State University; Ph.D., University of Tennessee, Knoxville
- Stewart, Kenneth M.** (1947), Professor Emeritus of Anthropology; A.B., M.A., Ph.D., University of California, Berkeley
- Stewart, Robert R.** (1997), Faculty Associate of Construction, B.A., Ottawa University
- Stiftel, Ruthy Z.** (1997), Lecturer of Hebrew, B.A., The Hebrew University of Jerusalem, Israel; M.A., Ohio State University
- Stiles, Philip G.** (1969), Professor Emeritus of Arbitration and Resource Management, B.S., University of Arkansas; M.S., University of Kentucky; Ph.D., Michigan State University
- Stillwell, Susan B.** (1997), Clinical Associate Professor of Nursing; B.S., College of Saint Teresa; M.S.N., University of Florida
- Stinson, Judith M.** (1997), Director, Legal Research and Writing and Academic Success Program, B.S., J.D., University of Arizona
- Stites, William H.** (1954), Professor Emeritus of Communication, B.A., Louisiana Polytechnic Institute; M.A., Ph.D., University of Denver

- Stock, William A.** 1984 . Professor Emeritus of Exercise Science and Physical Education; B.A., Blackburn College, M.S., Ph.D., Iowa State University
- Stocker, David Allen** (1978) Professor of Music, B.S., Concordia Teachers College, M.M., Ph.D., Northwestern University
- Stokrocki, Mary L.** 1990 . Professor of Art; B.S., State University of New York, New Paltz; M.S., Massachusetts College of Art, D.Ed., Pennsylvania State University
- Stone, Gregory O.** 1986 . Associate Professor of Psychology; B.A., Harvard University, Ph.D., University of California, San Diego
- Stoner, K. Lynn** 1985 . Associate Professor of History, B.S., George Peabody College for Teachers, M.A., Ph.D., Indiana University
- Stout, Robert** 1978 . Professor Emeritus of Educational Administration and Supervision; B.A., Carleton College; Ph.D., University of Chicago
- Stout, Valerie** (199) Associate Professor of Microbiology, B.S. University of Wisconsin Madison; Ph.D., Kansas State University
- Stowe, Noel J.** (1967). Professor of History, Chair, Department of History, B.A., Ph.D. University of Southern California
- Strange, Richard E.** 1974 . Professor Emeritus of Music, B.M.E., Wichita State University; M.M.E., University of Colorado, D.M.A., Boston University
- Streufert, Hildegard** 1961 . Professor Emeritus of Design; B.S. University of Minnesota, Twin Cities; M.S., Iowa State University
- Strick, James E.** (1999) Assistant Professor of Biology; B.S., State University of New York, College at Cortland; M.S., State University of New York, Syracuse; M.A., Ph.D., Princeton University
- Strittmatter, Connie** (2000) Assistant Law Librarian; B.A., Indiana University of Pennsylvania, M.L.S., Kent State University
- Strom, Robert** 1969 . Professor of Psychology in Education, B.S., Macalester College, M.S., University of Minnesota, Twin Cities; Ph.D. University of Michigan
- Stromberg, Juliet C.** (1988). Associate Professor of Plant Biology, B.S., M.S., University of Wisconsin, Milwaukee; Ph.D., Arizona State University
- Stromwall, Layne** 1996 . Assistant Professor of Social Work, B.A., M.S.S.W., University of Wisconsin, Madison, Ph.D., Case Western Reserve University
- Strouse, Daniel S.** 1990 . Professor of Law, Director, Center for the Study of Law, Science and Technology; A.B., S.M., Harvard University; J.D., University of Wisconsin, Madison
- Stuler, John H.** 1962 . Professor Emeritus of Art, B.A., M.F.A., Arizona State University
- Stump, Edmund** 1976 . Professor of Geological Sciences, A.B., Harvard University; M.S., Yale University, Ph.D., Ohio State University
- Stump, Glenda** (2000) Faculty Associate of Nursing; B.S., University of Pittsburgh; M.S., Wayne State University
- Stumpf, Angela M.** 1959 . Professor Emeritus of Nursing; B.S.N., Marquette University, M.A., University of Chicago
- Stutz, Jean C.** (1981). Associate Professor of Plant Biology; B.S., Ursinus College; M.S., University of Delaware, Ph.D., Pennsylvania State University
- Sudol, David E.** 1996 . Senior Lecturer of English; B.A., Simpson College; M.A., Drake University, Ph.D., University of Arizona
- Sugar, Thomas G.** 1999 . Assistant Professor of Mechanical and Aerospace Engineering; B.S.E., M.S.E., Ph.D., University of Pennsylvania
- Sugiyama, Saburo** (1999), Associate Research Professor of Anthropology, B.S., Tokyo Keizai University, Japan, Ph.D., Arizona State University
- Sullivan, Deborah A.** (1976) Associate Professor of Sociology; B.S., University of Massachusetts, Amherst, M.A., University of California, Irvine, Ph.D., Duke University
- Sullivan, Howard** (197) Professor of Psychology in Education, B.S., Oregon College of Education, M.Ed., Ph.D., University of Oregon
- Sullivan, Jill M.** (2000) Assistant Professor of Music, B.M., Illinois State University, M.M., University of Michigan; Ph.D., University of Iowa
- Sullivan, John J.** 1976 . Professor Emeritus of Education; B.A., Villanova University; M.A., Ph.D., Arizona State University
- Sunkett, Mark F.** (1976). Professor of Music, B.M., Curtis Institute of Music, M.M., Temple University, Ph.D., University of Pittsburgh
- Surbeck, Elaine** 1988 . Associate Professor of Curriculum and Instruction; B.A., University of Washington; M.Ed., Ed.D., University of Georgia
- Surgent, Scott** (1997). Lecturer of Mathematics, B.S., M.S., University of California, Riverside
- Sushka, Marie E.** (1984) Professor of Finance, B.A., Sweet Briar College, M.A., Ph.D., Georgetown University
- Suslov, Sergei K.** 1997 . Assistant Professor of Mathematics, M.Sc., Moscow Institute of Physics and Technology, Russia, Ph.D., Kurchatov Institute of Atomic Energy (Russia)
- Susser, Eric** (1997). Lecturer of the Barrett Honors College; B.A., University of Michigan, M.A., Ph.D., University of Virginia
- Suwarno, Peter** 1993 . Associate Professor of Indonesian, B.A., Satya Wacana Christian University, Indonesia, M.A., Ph.D., Ohio University
- Swafford, James R.** 1971 . Professor Emeritus of Plant Biology, B.S., M.S., Arizona State University
- Swaim, S. Daniel** (1975). Professor of Music; B.M., Cincinnati College Conservatory of Music; M.M.E., Indiana University, Bloomington, D.M.A., North Texas University
- Swanson, Tod D.** 1988 . Associate Professor of Religious Studies, Director, Latin American Studies Center; B.A., University of Minnesota, Twin Cities; M.Div., Luther Theological Seminary, Ph.D., University of Chicago
- Swaty, Mary A.** 1968 . Associate Librarian, Technical Services Department; B.A., University of Missouri, Columbia, M.L.S., Indiana University, Bloomington
- Sweeney, J. Gray** 1986 . Professor of Art, B.A., University of New Mexico; M.A., Ph.D., Indiana University, Bloomington
- Sweeney, James D.** (1989), Associate Professor of Biengineering, Sc.B., Brown University; Ph.D., Case Western Reserve University
- Swimmer, Alvin** 1963 . Associate Professor of Mathematics, B.S., Pennsylvania State University; M.S., New York University; Ph.D., University of California, Berkeley

Sylvester, Edward J. 1982, Professor of Journalism and Telecommunication, A.B., Princeton University; M.A. City College

Sylvester, Virginia R. 1981, Associate Librarian, Head, Access Services; Interim Head, Interlibrary Loan and Document Delivery; B.A., Hobart and William Smith Colleges; M.L.S., Rutgers, The State University of New Jersey

Szarek, Stanley R. 1974, Associate Professor of Plant Biology, Associate Chair of Plant Biology, B.S., California Polytechnic State University, Pomona; Ph.D., University of California, Riverside

T

Tambs, Lewis A. 1969, Professor of History, B.S., University of California, Berkeley; M.A., Ph.D., University of California, Santa Barbara

Tang, Carol M. 1997, Assistant Professor of Geological Sciences, B.A., University of California, Berkeley; M.S., Ph.D., University of Southern California

Tatro, B. J. 1999, Faculty Associate of Public Affairs, B.A., M.S.S.W., University of Louisville; D.P.A., Arizona State University

Taylor, Dan 1996, Lecturer of Accountancy and Information Management, B.A., University of Nebraska; M.A., M.Tax., Arizona State University

Taylor, Jack J. 1961, Professor Emeritus of Art; B.S., Gettysburg State College; M.Ed., Pennsylvania State University

Taylor, Jacqueline 1984, Professor Emeritus of Nursing, B.S.N., University of Washington; M.S., University of North Carolina, Chapel Hill; Ph.D., University of Arizona

Taylor, Nora (1998), Assistant Professor of Interdisciplinary Humanities, B.A., Brown University; M.A., Ph.D., Cornell University

Taylor, Thomas 1983, Associate Professor of Mathematics, B.S., California State University; Ph.D., Harvard University

Taysom, Elvin D. 1953, Professor Emeritus of Agribusiness and Resource Management, B.S., University of Idaho; M.S., Utah State University; Ph.D., Washington State University

Tenney, Lester I. 1969, Professor Emeritus of Finance; B.A., University of Miami; M.A., San Diego State College; D.B.A., University of Southern California

Tesón, Fernando R. (1984), Professor of Law, J.D., University of Buenos Aires (Argentina); L.L.M., Free University of Brussels (Belgium); S.J.D., Northwestern University

Teye, Victor B. 1984, Associate Professor of Recreation Management and Tourism; B.A., University of Ghana (Ghana); M.A., Ph.D., University of Manitoba, Canada

Tharp, Julie 1991, Assistant Librarian, Hayden Reference Services, B.A., University of Hawaii; M.L.S., University of Arizona

Theobald, Clarabelle (1967), Professor Emeritus of Nursing, B.S.N., Arizona State University; M.S., University of California, Los Angeles; Ph.D., Arizona State University

Thieme, Horst R. 1985, Professor of Mathematics, Associate Chair, Graduate Studies, M.S., Ph.D., University of Munster, Germany

Thomas, David A. 1999, Lecturer, Division of Undergraduate Academic Services and Bachelor of Interdisciplinary Studies Program, B.S., California State Polytechnic University; M.B.A., Ph.D., University of Southern California

Thomas, George M. 1981, Professor of Sociology, B.A., Arizona State University; M.A., Ph.D., Stanford University

Thomas, Keith J. (1975), Professor Emeritus of Reading and Library Science, B.S., Illinois State University; M.A., Loyola University, Chicago; Ed.D., University of Arizona

Thomason, Leslie L. 1969, Professor Emeritus of Technology, A.B., M.A., Ed.D., University of Oklahoma

Thompson, Barton A. 1999, Lecturer, Division of Undergraduate Academic Services and Bachelor of Interdisciplinary Studies Program, B.A., Colorado College, M.A., University of California, Santa Barbara; M.S., Stanford University; Ph.D., University of California, Santa Barbara

Thompson, D. Bruce (1991), Adjunct Professor of Biology, B.S., Kennesaw College; Ph.D., University of Illinois

Thompson, Janice Catherine 1977, Professor of Music, B.M.E., M.M.E., University of Wisconsin; M.M., Western Michigan University; D.M., Northwestern University

Thompson, Lee P. 1955, Professor Emeritus of Engineering, Dean Emeritus, College of Engineering and Applied Sciences, B.A., Indiana University; M.S., Ph.D., Texas A&M University, P.E.

Thompson, Marilyn S. (1999), Assistant Professor of Educational Psychology, B.A., Carleton College; M.A., Ph.D., University of Kansas

Thompson, Victoria E. 1999, Assistant Professor of History, B.A., University of California, Berkeley; Ph.D., University of Pennsylvania

Thomson, Jeffrey 1981, Professor of Theatre, B.A., Ripon College; M.A., University of Washington; M.F.A., Wayne State University

Thomson, Tom R. 1961, Professor Emeritus of Chemistry and Biochemistry; B.A., University of California, Berkeley; M.S., Ph.D., Kansas State University

Thorne, Anita (1984), Professor Emeritus of Nursing, Diploma, Allegheny General Hospital; B.S.N., Ed. M.A., University of Pittsburgh

Thornton, Sybil 1994, Associate Professor of History, B.A., University of California, Berkeley; B.A., University of Cambridge (United Kingdom); M.A., San Francisco State University; M.A., Ph.D., University of Cambridge (United Kingdom)

Thornton, Trevor John 1998, Professor of Electrical Engineering, B.S., Saint Catherine's College (United Kingdom); M.A., Ph.D., Cambridge University (United Kingdom)

Thurber, Frances (1991), Professor of Nursing, Chair, Division of Adult Health/Parent Child Nursing, B.S.N., Saint Anselm College; M.S.N., University of Pennsylvania; Ph.D., University of Michigan

Tice, Thomas E. 1967, Professor Emeritus of Electrical Engineering, B.S.E.E., M.S.E.E., Ph.D., Ohio State University

Tidwell, Victor H. 1971, Professor Emeritus of Accountancy and Information Management, B.S., Illinois College; M.B.A., D.B.A., Indiana University; C.P.A., Arizona, Iowa

Tillery, Bill W. 1973, Professor of Physics and Astronomy and Science Education, B.S., Northeastern State College; M.A., Ed.D., University of Northern Colorado

- Tillman, Hoyt C.** (1976). Professor of History, B.A. Belhaven College, M.A., University of Virginia; A.M., Ph.D., Harvard University
- Timothy, Dallen J.** 2030. Assistant Professor of Recreation Management and Tourism, B.S., Brigham Young University; M.S., University of Western Ontario, Canada; Ph.D., University of Waterloo, Canada
- Tipton, Gary P.** 1969). Assistant Professor of Chinese; B.A. Brigham Young University; Ph.D., Indiana University, Bloomington
- Tobiason, Sarah J.** 1963-67, 1974). Professor Emeritus of Nursing; B.S.N., Vanderbilt University; M.A., Centralia University
- Tohe, Laura** 1994. Associate Professor of English, B.A., University of New Mexico; M.A., Ph.D., University of Nebraska
- Tompkins, Cynthia M.** 1992. Associate Professor of Spanish, Licenciada en Letras Modernas, National University of Córdoba, Argentina; M.A., Ph.D., Pennsylvania State University
- Tongret, JoAnn** 2000. Lecturer of Dance and Theatre, B.A., M.A., Arizona State University
- Torrest, Robert S.** 1980. Professor Emeritus of Chemical Engineering, B.S., Polytechnic Institute of Brooklyn; Ph.D., University of Minnesota, Twin Cities
- Towe, Bruce C.** 1984. Professor of Engineering; B.S., M.S., Ph.D., Pennsylvania State University
- Towill, Leslie R.** 1955). Associate Professor of Plant Biology, B.S., M.S., University of Wisconsin-Milwaukee; Ph.D., University of Michigan
- Traaen, Teresa** 1993. Faculty Associate of Public Affairs, B.A., Northern Arizona University; M.A., Wheaton College; Ed.D., D.P.A., Arizona State University
- Tracey, Terence** 1999. Professor of Counseling Psychology, Academic Program Leader, Counselor Education, Training, Director and Program Coordinator, Counseling Psychology, B.A., Cornell University; M.S.Ed., University of Kansas; Lawrence, Ph.D., University of Maryland College Park
- Tracogna, Stefania** 200. Lecturer of Mathematics, Laurea, University of Trieste, Italy; Ph.D., Arizona State University
- Tracy, Sarah J.** 200. Assistant Professor of Communication, B.A., University of Southern California; M.A., Ph.D., University of Colorado
- Trapido-Lurie, Barbara** 1987. Associate Research Professorial, B.A., Pomona College; M.A., University of Hawaii
- Trapuzzano, Michael** (1989). Lecturer of Mathematics, B.S., United States Air Force Academy; Colorado; M.B.A., University of Utah
- Treasure, Darren C.** 1998. Associate Professor of Exercise Science and Physical Education; B.A., West London Institute of Higher Education, United Kingdom; M.S., Ph.D., University of Illinois Urbana-Champaign
- Trelease, Richard N.** 1971. Professor of Plant Biology, B.S., M.S., University of Nevada, Reno; Ph.D., University of Texas, Austin
- Trennert, Robert A.** (1974). Professor of History, B.A. Occidental College, M.A., Los Angeles State College, Ph.D., University of California, Santa Barbara
- Trethewey, Angela** (1996). Assistant Professor of Communication; B.A., M.A., California State University; Ph.D., Purdue University
- Trost, Melanie R.** (1991). Associate Professor of Communication, B.S., Montana State University; M.A., Ph.D., Arizona State University
- Trotta, Victoria K.** 1996. Associate Dean and Director, Ross Blakely Law Library; B.A., Occidental College; M.L.S., University of California Los Angeles; J.D., University of Southern California
- Trotter, William T.** 1967. Regents' Professor of Mathematics, Vice Provost for Academic Programs, Office of the Senior Vice President and Provost, B.S., The Citadel; M.A., Ph.D., University of Alabama
- Trujillo, Octaviana Valenzuela** 1999. Assistant Professor of Curriculum and Instruction, Director, Center for Indian Education, B.A., M.A., Ph.D., Arizona State University
- Trujillo, Rosanne E.** 1999. Assistant Librarian, Hayden Reference Services, B.A., Utah State University; M.A., University of Arizona; M.B.A., University of Phoenix
- Tsai, Wei-Tek** 1999. Professor of Computer Science and Engineering, S.B., Massachusetts Institute of Technology; M.S., Ph.D., University of California, Berkeley
- Tsakalis, Konstantinos S.** 1985. Assistant Professor of Electrical Engineering; B.S., National Technical University of Athens (Greece); M.S.E.E., Ph.D., University of Southern California
- Tse, Lucy** 1999. Assistant Professor of Curriculum and Instruction, B.A., University of Arizona; M.S., Ph.D., University of Southern California
- Tsen, Kong-Tong** 1984. Professor of Physics and Astronomy, B.S., Fujen Catholic University, Japan; M.S., Ph.D., Purdue University
- Tseng, Ampere A.** 1995. Professor of Mechanical and Aerospace Engineering, M.S., University of Illinois, Urbana-Champaign; Ph.D., Georgia Institute of Technology
- Tsong, Ignatius S. T.** 198. Professor of Physics and Astronomy, B.Sc., M.Sc., University of Leeds, United Kingdom; Ph.D., University of London (United Kingdom); D.Sc., University of Leeds, United Kingdom
- Tsosie, Rebecca A.** 1993. Professor of Law, Executive Director, Indian Legal Program, B.A., J.D., University of California, Los Angeles
- Tsukayama, Jennifer** 1995. Senior Lecturer of Dance, B.F.A., George Mason University; M.F.A., New York University
- Tu, Eugenia Y.** 1993. Professor Emeritus of Chinese; B.Ed., Taiwan Normal University, Taiwan; B.A., University of Mary Hardin-Baylor; M.S., University of Arizona
- Tucker, Bonnie P.** (1987). Professor of Law, B.S., Syracuse University; J.D., University of Colorado
- Turk, Rudy H.** (1967). Professor Emeritus of Art, B.S., University of Wisconsin-Madison; University of Tennessee
- Turkon, David** 1997. Adjunct Professor of Anthropology; B.S., Canisius College, Buffalo, M.A., Ph.D., State University of New York, Buffalo
- Turnbow, James W.** 1959. Professor Emeritus of Civil Engineering, B.S.M.E., Texas Technological College; M.S.E.M., Ph.D., University of Texas
- Turner, Caroline** 1999. Professor of Education, Leadership and Policy Studies, B.A., M.A., University of California, Davis; Ed.S., Ph.D., Stanford University

Turner, Christy G. II (1966), Regents' Professor of Anthropology; B.A., M.A. University of Arizona; Ph.D. University of Wisconsin, Madison

Turner, James C. Jr. 1997, Associate Professor of Mathematics; B.S. University of New Orleans, M.S., University of Michigan, Ph.D., Carnegie Mellon University

Turner, Katherine C. 1946, Professor Emeritus of English; B.Ed., Illinois Normal School; M.A., Ph.D. University of Michigan

Turner, Terry 2000, Lecturer of Mathematics; B.S., College of Charleston; M.S., Northern Arizona University

Turner, Tom 1996, Associate Librarian; Noble Science Reference Services; B.S., M.L.S. Louisiana State University

Tutunjian, Vatche 1992, Faculty Research Associate of Physics and Astronomy

Tyburczy, James A. 1985, Professor of Geological Sciences; B.A., Whitman College, Ph.D., University of Oregon

Tylavsky, Daniel J. 1982, Associate Professor of Electrical Engineering; B.S.E., M.S.E., Ph.D. Pennsylvania State University

U

Uhl, Rebecca S. 1989, Associate Librarian; Team Management, Technical Services Department; B.S., M.A., Colorado State University, M.S.L.I.S., University of Illinois

Umar, Muhammad Sani 1996, Assistant Professor of Religion Studies; B.A., University of Jos, Nigeria; M.A., Bayero University Nigeria; Ph.D., Northwestern University

Umberger, Emily (1982), Associate Professor of Art; B.A., University of Pennsylvania; M.A., University of Texas, Austin; Ph.D., Columbia University

Umberson, George E. (1977), Professor of Music; B.M.E., Eastern New Mexico University; M.A., University of Iowa; Ed.D., University of North Colorado

Underhill, Michael J. 1990, Professor of Architecture; B.Arch. Massachusetts Institute of Technology; M.C.P.L.D., Harvard University

Underwood, Max 1985, Professor of Architecture; B.S., University of Southern California; M.Arch., Princeton University

Upchurch, Jonathan E. 1982, Professor Emeritus of Civil and Environmental Engineering; B.S., M.S., University of Illinois; Ph.D., University of Maryland

Updegraff, Kimberly (1997) Assistant Professor of Family and Human Development; B.S., M.S., Ph.D. Pennsylvania State University

Upton, Mark Roy 1995, Faculty Associate of Construction; B.S., Michigan State University

Urban, Joseph E. (1989) Professor of Computer Science and Engineering; B.S., Florida State of Technology; M.S., University of Iowa; Ph.D., University of Southwestern Louisiana

Urban, Susan D. 1989, Associate Professor of Computer Science and Engineering; B.S., M.S., Ph.D., University of Southwestern Louisiana

Urioste-Azcorra, Carmen 1995, Assistant Professor of Spanish Licenciatura; University of Seville, Spain; Ph.D., Arizona State University

Usman, Aribidesi (1999), Adjunct Professor of Anthropology; B.A., M.Sc., University of Ibadan, Nigeria; Ph.D., Arizona State University

Uttal, William R. 1985, Professor Emeritus of Industrial Engineering; B.S., University of Cincinnati; Ph.D., Ohio State University

V

Valdivieso, L. Teresa (1971), Professor of Spanish; B.A., M.A.E., Ph.D., Arizona State University

Valentine, Carol Ann (1975), Professor Emeritus of Communication; B.A., M.A., University of Michigan; Ph.D. Pennsylvania State University

Valentine, Kristin B. (1976), Professor of Communication; B.S., University of Wisconsin, Madison; M.A., University of Washington; Ph.D., University of Utah

Vallejo, Carlos J. 1976, Associate Professor of Curriculum and Instruction; B.S., Chadron State College; M.A., Ed.D., University of Nebraska, Lincoln

Valverde, Leonard A. 1992, Professor of Educational Leadership and Policy Studies; B.A., California State University, Los Angeles; Ph.D., Claremont Graduate School

Van Duzer, Leslie (1996), Associate Professor of Architecture; B.Arch., M.Arch., University of California Berkeley

Van Gelderen, Elly (1995), Associate Professor of English; B.S., Utrecht University; M.A., Ph.D., McGill University

Van Hook, Barry L. 1976, Associate Professor of Management; B.S., Illinois State University; M.S., Ed.D., Northern Illinois University

Van Orden, Guy C. (1987), Professor of Psychology; B.S., University of Oregon; M.A., Ph.D., University of California, San Diego

Van Wagenen, R. Keith (1963), Professor Emeritus of Education; B.A., Pacific Union College; M.A., Arizona State University; Ph.D., University of Utah

Vanacour, Martin (1987), Faculty Associate of Public Affairs; B.A., State University of New York Buffalo; M.P.A., New York University; D.P.A., Arizona State University

Vanderhoff, Barbara A. 1968, Associate Librarian, Technical Services Department; B.A., Fort Hays State University; M.A., University of Denver

VanderMeer, Philip R. 1985, Associate Professor of History; B.A., Calvin College; M.A., Ph.D., University of Illinois

Vasileska, Dragica 1997, Assistant Professor of Electrical Engineering; B.S., M.S., University Cyril and Methodius, Republic of Macedonia; Ph.D., Arizona State University

Vaz, Paul 1997, Senior Lecturer of Mathematics; B.S., M.S., Ph.D., Bombay University, India; Ph.D., Arizona State University

Veatch, Jeannette (1968), Professor Emeritus of Education; A.B., Western Michigan University; M.A., Ph.D., New York University

Vega, Santos C. (1989), Senior Research Specialist, Hispanic Research Center; B.A., M.Ed., University of Arizona; Ph.D., Arizona State University

Venables, John A. 1986, Professor of Physics and Astronomy; B.A., Ph.D., University of Cambridge, United Kingdom

Verch, Todd (1994), Faculty Associate of Design; B.S.D., M.S.D., Arizona State University

Verdini, William A. 1976 . Associate Professor of Supply Chain Management, Associate Dean, College of Extended Education; B.S., Case Western Reserve University, M.B.A., D.B.A., Kent State University

Vermaas, Willem F. J. 1986 . Professor of Plant Biology Ph.D. Agricultural University Netherlands

Vernon, Brent 2000 . Assistant Professor of Biengineering, B.S.E., Arizona State University, Ph.D., University of Utah

Verstegen, Clare M. (1989). Associate Professor of Art; B.S., University of Wisconsin Stevens Point, M.F.A. Cranbrook Academy of Art

Vestre, Norris D. 1972 . Professor Emeritus of Psychology, B.A., Ph.D., University of Minnesota Twin Cities

Villalobos, J. Rene 1999 Associate Professor of Industrial Engineering, B.S., Institute of Technology of Chihuahua Mexico, M.S., University of Texas El Paso, Ph.D., Texas A&M University

Villanueva, Virginia (1995). Faculty Associate of Nursing, B.S.N., M.S., Arizona State University

Vining, David C. 1977 . Associate Professor of Theatre; B.A., University of Redlands M.F.A., University of Minnesota, Twin Cities

Vinze, Ajay 1998 . Professor of Accountancy and Information Management, B.C.M., University of Delhi India, M.B.A., University of Connecticut; Ph.D., University of Arizona

Viriden, Randy J. (1984 . Associate Professor of Recreation Management and Tourism, Chair, Department of Recreation Management and Tourism, B.S., M.S., Arizona State University, Ph.D., Utah State University

Virgilio, Carmelo 1967 . Professor Emeritus of Romance Languages, A.B., State University of New York, Albany, A.M., Ph.D., Indiana University

Vissicaro, Pegge Harper 1983 Assistant Professor of Dance B.F.A. University of Michigan, M.F.A. University of North Carolina, Greensboro

Vitulo, Juliann 1990 . Associate Professor of Italian, B.A., University of Illinois, M.A., Ph.D., Indiana University, Bloomington

Voaden, Rosalynn 1998 . Assistant Professor of English, B.A., B.Ed., Queen's University, Kingston; M.A., University of Victoria, British Columbia, (Canada), Ph.D., University of York (United Kingdom)

Voeller, Kytja (2000) . Adjunct Professor of Speech and Hearing Science; B.A., Reed College; M.A., Bryn Mawr College; M.D., Columbia University

Vogus, Brad T. 1999 Assistant Librarian, B.A., Indiana University, Bloomington, M.L.L.S., University of Michigan, Ann Arbor

Volek, Emil 1975 . Professor of Spanish; Pre-M.Phil., Ph.D., Charles University, Prague Czechoslovakia

Voss, Howard G. 1964 . Professor Emeritus of Physics and Astronomy; A.B., Hope College; M.N.S. Arizona State University; M.S., Purdue University

Voth, Annette 1978 . Librarian, Music Library; B.Mus., University of Kansas; M.L.S., M.A., University of California, Berkeley

Votichenko, T. Alexander 1956 . Professor Emeritus of Philosophy, A.B., Princeton University, M.A., Columbia University

W

Wagner, J. Bruce Jr. 1977 . Regents' Professor Emeritus, Center for Solid State Science and Chemistry and Biochemistry, B.S., Ph.D., University of Virginia

Wagner, Matthew (2000) . Lecturer of Theatre B.A., Kent State University M.A., University of Minnesota

Wagner, Michael G. 1997 . Assistant Professor of Computer Science and Engineering; B.S., M.S., Ph.D., Technica University of Vienna Austria

Wagner, Ronald F. 1962 . Professor Emeritus of Art B.S., University of Wisconsin, Madison; M.F.A., University of Iowa

Walker, Beth A. (1988). Associate Professor of Marketing, B.S. Virginia Polytechnic Institute and State University; M.S., Ph.D., Pennsylvania State University

Walker, John E. 1970 . Professor Emeritus of Educational Administration and Supervision, B.A., Albion College; M.A., Michigan State University Ed.D., Utah State University

Walker, Mark R. 1991 . Faculty Associate of Electrical Engineering, M.S., Ph.D., Arizona State University

Walker, Sharon 1996 Lecturer of Mathematics; B.A., B.S., M.N.S., Arizona State University

Walker, Stephen G. 1969 . Professor of Political Science, B.A., Creighton University, M.A., Ph.D., University of Florida

Wallace, Charles E. (1958 . Professor Emeritus of Mechanical and Aerospace Engineering B.S., Lewis and Clark College, M.S., Oregon State University, Ph.D., Stanford University

Wallen, Carl 1973 . Professor Emeritus of Curriculum and Instruction, B.A., University of California, Santa Barbara, M.A., San Francisco State College, Ed.D., Stanford University

Waller, Margaret Ann 1997 . Associate Professor of Social Work, B.A., DePaul University, M.S.W., Ph.D., University of Chicago

Waller, Sam, Capt. (1999). Professor of Military Science, B.A., Mercer University

Walsberg, Glenn E. (198 . Professor of Biology; B.S., California State University, Long Beach Ph.D., University of California, Los Angeles

Walsh, Kenneth D. 1994 . Associate Professor of Construction; B.S.E., M.S., Ph.D., Arizona State University

Walters, Sheila A. (1971). Librarian Emeritus; B.A., University of Oklahoma, M.L.S., Louisiana State University

Walton Ramirez, Anne (1999). Lecturer of Spanish, B.A., University of South Alabama, M.A., Arizona State University

Wamacks, Naomi W. 1968 . Professor Emeritus of Curriculum and Instruction; B.A., M.A., Ed.D., Arizona State University

Wang, Alan P. 1970 . Professor Emeritus of Mathematics, B.A., Washington State University; M.A., Ph.D., University of California, Los Angeles

Wang, Cecilia (1971). Professor Emeritus of Mathematics; B.A., Immaculate Heart College, M.A., Ph.D., University of California, Los Angeles

Wang, Edward Y. 1979 . Professor Emeritus of Electrical Engineering, B.S., Morningside College, M.S., Purdue University, Ph.D., Tufts University

Ward, James C. 1986 . Professor of Marketing; B.A., M.B.A., Ph.D., University of Minnesota, Twin Cities

- Ward, Lance** 1997, Lecturer of Mathematics, B.S., M.S. Brigham Young University
- Ward, Tom** 2000, Faculty Associate of Construction, B.S., Arizona State University
- Wardwell, Sandra W.** 1974, Professor Emeritus of Geography, B.S., University of Michigan
- Warner, Carolyn** 1994, Associate Professor of Political Science, B.A. University of California, San Diego; M.A., Ph.D., Harvard University
- Warnicke, Retha M.** 1972, Professor of History, A.B. Indiana University, M.A., Ph.D. Harvard University
- Warren, Morrison F.** 1968, Professor Emeritus of Education, B.A., M.A., Ed.D., Arizona State University
- Warren-Findley, Jannelle** 1992, Associate Professor of History, B.A., Texas Woman's University, M.Ph.I., Ph.D., Georgetown University
- Watkins, Thomas B.** 1977, Professor Emeritus of Technology, B.S., University of Wyoming; M.S., Arizona State University
- Watson, Clyde W.** 1971, Professor Emeritus of Art, B.F.A., Bethany College; M.A., Kansas State University
- Watson, George L.** 1969, Professor of Journalism and Telecommunication, B.A. Phillips University, M.A., Ph.D., Duke University
- Webb, L. Dean** 1985, Professor of Education Leadership and Policy Studies, B.A., M.A.T., Ph.D. University of Florida
- Webb Peterson, Patricia R.** 1995, Assistant Professor of English, B.A., M.A., Illinois State University; M.Ed., Ph.D., University of Illinois Urbana-Champaign
- Webber, Andrew N.** 1980, Professor of Pastoral Theology, Director, Center for the Study of Faith Experiences, Philosophy, B.Sc., Ph.D., University of Essex, United Kingdom
- Weber, Sandra I.** 1985, Assistant Professor of Construction, B.S.C.E., M.S.C.E., University of California Berkeley; Ph.D., Arizona State University
- Weed, Andrew** 1999, Assistant Professor of Design, B.F.A. Arizona State University, M.F.A., Basel School of Design, Switzerland
- Wegner, Artroll L.** 1957, Professor Emeritus of Physical Education, B.S. Wisconsin State College; M.S., University of Wisconsin, Madison; P.E.D., Indiana University
- Weidemaier, William** 1977, Professor Emeritus of the Barlett Honors College, B.A. Northern Arizona University, M.A., Ph.D., Arizona State University
- Weierstall, Uwe** 1994, Assistant Research Scientist of Physics and Astronomy, B.S., University of Tübingen, Germany; M.S., Ph.D., Institute of Applied Physics, Tübingen, Germany
- Weigand, Robert F. Jr.** 1991, Senior Lecturer of Family and Human Development and Psychology; Director, Child Laboratory Programs, B.S. University of Scranton; M.S., Purdue University
- Weigand, Guido G.** 1976, Professor Emeritus of Geography, Distinguished College of Liberal Arts and Sciences, B.S., M.S., Ph.D., University of Chicago
- Weiner, Gordon M.** 1965, Professor Emeritus of History, A.B., Ph.D., University of Pennsylvania
- Weinstein, James** 1986, Professor of Law, American Law Professor of Constitutional Law; B.A., J.D., University of Pennsylvania
- Weiser, Kurt** 1989, Regents' Professor of Art; B.F.A., Kansas City Art Institute; M.F.A., University of Michigan
- Weiss, Karl H.** 1954, Research Specialist, Center for Solid State Science, B.S. Ursinus College; M.S., University of Arizona
- Weiss, Jane** 2000, Assistant Professor of Accounting and Information Management; B.B.A., University of Wisconsin, Whitewater; M.Acc., University of Georgia; Ph.D., University of Wisconsin
- Weiss, Neil A.** 1970, Professor of Mathematics, B.A., M.A., Ph.D., University of California, Los Angeles
- Weitz, Rose** 1955, Professor of Sociology, B.A. City University of New York; M.A., Ph.D., Yale University
- Weitzman, Irene** 1995, Adjunct Faculty of Microbiology, B.S., Brooklyn College; M.A., Ph.D., Columbia University
- Welch, H. William** 1967, Professor Emeritus of Electrical Engineering, B.A. DePaul University, M.S., Ph.D., University of Michigan; P.E.
- Welfert, Bruno** 1997, Associate Professor of Mathematics, M.A. University of Paris VI, France; Ph.D., University of California, San Diego
- Wellmeier, Nancy J.** 1997, Adjunct Professor of Anthropology, B.A., Edgewood College, Cincinnati; M.A., Ph.D., Arizona State University
- Wells, Barrie E.** 1981, Professor Emeritus of Music, B.M., M.M. University of the Pacific; D.M.A., University of Oregon
- Wells, Christine I.** 1976, Professor Emeritus of Exercise Science and Physical Education, B.S. University of Michigan; M.S., Smith College; Ph.D., Pennsylvania State University
- Wells, David** 1998, Lecturer, Division of Undergraduate Academic Services; Curriculum Coordinator, Bachelor of Interdisciplinary Studies Program, B.A., Bucknell University; Ph.D., University of Southern California
- Wells, Valana L.** 1987, Assistant Professor of Engineering, A.B., M.S., Ph.D., Stanford University
- Welsh, Peter H.** 1986, Associate Professor of Anthropology, B.A. Northern Arizona University, M.A., Ph.D., University of Pennsylvania
- Wentz, Elizabeth A.** 1997, Assistant Professor of Geography, B.A., M.A. Ohio State University; Ph.D., Pennsylvania State University
- Wentz, Richard E.** 1972, Professor Emeritus of Religious Studies, A.B., Union College; B.D., Lancaster Theological Seminary; M.Ph., Ph.D., George Washington University
- Wesbury, Stuart A. Jr.** 1994, Professor Emeritus of Health Administration and Policy, B.S. Temple University, M.H.A., University of Michigan; Ph.D., University of Florida
- Weschler, Louis** 1987, Professor Emeritus of Public Affairs, B.A. California State University Long Beach; M.A., Ph.D., University of California Los Angeles
- West, Stephen G.** 1987, Professor of Psychology, B.A., Cornell University; M.A., Ph.D., University of Texas
- Westerhoff, Paul** 1995, Assistant Professor of Civil and Environmental Engineering, B.S., Lehigh University; M.S., University of Massachusetts Amherst; Ph.D., University of Colorado Boulder
- Westie, Frank R.** 1953, Adjunct Professor of Sociology, B.S., Central Michigan University; Ph.D., Ohio State University

- Wetsel, W. David** (1989), Professor of French; B.A., University of Texas, Austin; M.A., University of Chicago; M.A., Ph.D., Brandeis University
- Wexler, Kathryn** (1992), Clinical Assistant Professor of Speech and Hearing Science; B.A., University of Michigan; M.S., Tuane University
- Wheatley, John C.** (1983), Senior Research Professional of Physics and Astronomy; B.S., Arizona State University
- Wheeler, Jacqueline** (1994), Lecturer of English; B.S., M.A., Northern Arizona University; Ph.D., Arizona State University
- Wheeler, Michael D.** (1975), Senior Research Professional of Chemistry and Biochemistry; B.S., University of Wisconsin, Madison
- Whiffen, Marcus** (1960), Professor Emeritus of Architecture; B.A., M.A., University of Cambridge, United Kingdom
- Whitam, Frederick L.** (1966), Professor Emeritus of Sociology; B.A., Millsaps College; A.M., Ph.D., Indiana University, Bloomington
- White, Barbara G.** (1990), Clinical Associate Professor of Nursing; B.S., M.S., Virginia Commonwealth University
- White, Harold C.** (1966), Professor Emeritus of Management; B.S., M.S., University of Oregon; Ph.D., University of Florida
- White, James J.** (1991), Senior Lecturer of Chemistry and Biochemistry; B.A., Idaho State University; M.S., Ph.D., University of Arizona
- White, James R.** (1981), Professor of Art; B.F.A., M.F.A., Ohio University
- White, Joann** (1997), Faculty Associate of Design; B.S., Northwestern University
- White, John P.** (1963), Professor Emeritus of Political Science; A.B., University of Cincinnati; A.M., Ph.D., University of Chicago
- White, Michael J.** (1974), Professor of Philosophy; B.A., Arizona State University; M.A., Ph.D., University of California, San Diego
- White, Patricia D.** (1999), Professor of Law, Dean, College of Law; B.A., M.A., J.D., University of Michigan
- Whitcotton, Stacey** (1997), Associate Professor of Accountancy and Information Management; B.A., Texas Tech University; Master of Accountancy, Ph.D., University of Oklahoma
- Whitehouse, Richard** (1997), Lecturer of Computer Science and Engineering; B.S., Worcester State College; M.S., University of Tennessee
- Whitehurst, Harry B.** (1958), Professor Emeritus of Chemistry and Biochemistry; B.A., M.A., Ph.D., Rice University
- Wie, Bong** (1989), Professor of Engineering; B.S., Seoul National University, South Korea; M.S., Ph.D., Stanford University
- Wiesel, Avi** (1995), Assistant Professor of Construction; B.Sc.C.E., Polytechnic Institute of Timisoara, Romania; M.S.C.E., Ph.D., Technion-Israel Institute of Technology, Israel
- Wigal, Kathy D.** (2000), Lecturer of Accountancy and Information Management; B.S., Arizona State University; M.B.A., M.Ed., Ed.D., Northern Arizona University
- Wiggins, Harry B.** (1987), Senior Lecturer Emeritus of Supply Chain Management; B.S., U.S. Merchant Marine Academy; B.S., University of Vermont; M.B.A., Harvard University
- Wilcox, M. Jeanne** (1990), Professor of Speech and Hearing Science; B.A., Kansas State; M.A., Ph.D., Memphis State University
- Wiley, Terrence G.** (2000), Professor of Educational Leadership and Policy Studies; Director, Division of Educational Leadership and Policy Studies; B.A., M.A., California State University, Long Beach; Ph.D., University of Southern California
- Willkens, Barry J.** (1992), Research Specialist, Center for Social State Science; B.A., Columbia Union College; M.S., Rutgers, The State University of New Jersey
- Wilkinson, Christine K.** (1977), Associate Professor of Higher Education; Vice President, Student Affairs; B.A., Arizona State University; M.A., University of California, Berkeley; Ph.D., Arizona State University
- Wilkinson, Joseph W.** (1964), Professor Emeritus of Accounting and Information Management; B.S., Carnegie Institute of Technology; M.B.A., Stanford University; D.B.A., University of Oregon
- Williams, Carol E.** (1984), Academic Associate, Director of Undergraduate Academic Services, Coordinator, Campus Match and Supplemental Instruction; B.A., Trinity University, San Antonio; M.A., Arizona State University
- Williams, David P. III** (1978), Instructor of Sociology; B.A., B.S., M.A., University of Pennsylvania; Ph.D., Arizona State University
- Williams, Donald, SFC** (1999), Instructor of Military Science
- Williams, Frank G.** (1975), Professor of Health Administration and Policy; B.S., M.A., Oregon State University; M.A., Ph.D., University of Iowa
- Williams, Jenny L.** (1967), Associate Librarian, Technical Services Department; B.A., M.L.S., Indiana University
- Williams, Peter** (1981), Professor of Chemistry and Biochemistry; B.S., Ph.D., University of London, United Kingdom
- Williams, Philip E.C.** (1986), Professor of Chinese; B.A., University of Arkansas; M.A., Ph.D., University of California, Los Angeles
- Williams, Robert C.** (1978), Professor of Anthropology; B.A., M.A., University of Cambridge, United Kingdom; B.A., M.A., Ph.D., University of Michigan
- Williams, Stanley N.** (1991), Professor of Geological Sciences; B.S., Beloit College; M.A., Ph.D., Dartmouth College
- Williamson, Madeline J.** (1976), Professor of Music; B.A., Ohio Wesleyan University; M.M., Western Michigan University; Ph.D., Arizona State University
- Willis, Wayne T.** (1989), Associate Professor of Exercise Science and Physical Education; A.B., University of California, Berkeley; M.A., San Francisco State University; Ph.D., University of California, Berkeley
- Wills, J. Robert** (1994), Professor of Theatre, Dean, Herberger College of Fine Arts; B.A., College of Wooster; M.A., University of Illinois; Ph.D., Case Western Reserve University
- Wilson, Angela Cavender** (2000), Assistant Professor of History; B.A., University of Minnesota; M.A., Ph.D., Cornell University
- Wilson, Dennis** (1996), Assistant Research Professor of Microbiology; B.S., University of Durham, United Kingdom; Ph.D., University of Oregon
- Wilson, Gail Eugene** (1972), Associate Professor of Music; B.S., Ohio State University; M.M., Arizona State University
- Wilson, Gloria N.** (1961), Professor Emeritus of Educational Media and Computers; B.A., Montclair State College; M.A., Ed.D., Columbia University

- Wilson, Jeffrey R.** 1985, Associate Professor of Statistics, B.A., University of the West Indies (Trinidad and Tobago), M.S., Ph.D., Iowa State University
- Wilson, Lorna A.** 1966, Professor Emeritus of French; B.Ed., University of Saskatchewan (Canada), M.A., Arizona State University
- Wilson, Patricia M.** (1987, Associate Professor of Family and Human Development; B.S., M.Ed., Iowa State University; Ph.D., Oklahoma State University
- Wilson-Rawls, Jeanne** 1997, Assistant Research Professor; B.S., McMaster University (Canada); Ph.D., Saint Louis University School of Medicine
- Wilt, Glenn A. Jr.** 1963, Professor Emeritus 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; 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
- Winicov, Ilga B.** (1999), Research Professor of Plant Biology, A.B., University of Pennsylvania, M.S., University of Wisconsin, Madison; Ph.D., University of Pennsylvania
- Winkelman, Michael** 1988, Senior Lecturer of Anthropology, B.A., Rice University, Ph.D., University of California, Irvine
- Winkelman, Richard D.** 1965, Associate Professor of Economics, B.A., Southern Illinois University, M.A., Ph.D., University of Illinois
- Wintergalen, Barbara A.** 1992, Professor Emeritus of Nursing, B.S.N., Loretto Heights College; M.S., Arizona State University
- Wirtz, Dorothy** 1959, Professor Emeritus of French; B.A., University of Iowa, M.A., Ph.D., University of Wisconsin
- Wiseman, Douglas E.** (1976, Professor Emeritus of Curriculum and Instruction, B.S., M.A., Eastern Michigan University, Ph.D., University of Illinois
- Witczak, Matthew W.** (1999, Professor of Civil and Environmental Engineering, B.S.C.E., M.S.C.E., Ph.D., Purdue University
- Witt, Tom** 1975, Associate Professor of Design, B.A., M.A., M.F.A., University of California, Los Angeles
- Wixted, Jane** (2000), Faculty Associate of Nursing; B.S.N., Arizona State University, M.S.N., Case Western Reserve University
- 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)
- Wochner, Raymond E.** 1952, Professor Emeritus of Education, B.S., York College, M.A., University of Nebraska-Lincoln; Ph.D., University of Wyoming
- Wolchik, Sharlene** 1980, Professor of Psychology, B.A., Vassar College; M.S., Ph.D., Rutgers, The State University of New Jersey
- Wolf, Donald J.** 1969, Professor Emeritus of Political Science, B.A., M.A., Gonzaga University, S.T.M., University of Santa Clara, Ph.D., Georgetown University
- Wolf, George H.** (1986, Associate Professor of Chemistry and Biochemistry; B.A., University of California, San Diego, M.S., Ph.D., University of California, Berkeley
- Wolf, Robert** 1985, Professor Emeritus of Design Director, School of Design; B.S., Southern Illinois University, Carbondale, M.A., University of Missouri; Certificate, Konstnärskolan (Sweden)
- Wolf, W. Shapard Jr.** 1983, Associate Research Administrator Sociology, Director, Survey Research Laboratory, Sociology; B.F.A., Florida State University, M.Ed., University of Georgia
- Wolfe, Philip M.** 1988, Professor of Industrial Engineering, B.S., University of Missouri; M.S.E., Ph.D., Arizona State University
- Wolfthal, Diane** 1995, Associate Professor of Art, Assistant Professor of Anthropology; B.A., M.A., City University of New York; Ph.D., Institute of Fine Arts, New York University
- Wollam, Owen A.** (1964, Professor Emeritus of French, B.A., M.A., Montana State University, Ph.D., University of Washington
- Wong, Elizabeth** 1996, Lecturer of Japanese; B.A., William Smith College, M.A., Washington University, St. Louis; Ph.D., Stanford University
- Wong, Timothy** 1995, Professor of Chinese, Director, Center for Asian Studies, B.A., Saint Mary's College, M.A., University of Hawaii, Ph.D., Stanford University
- Wood, Byard D.** (1970), Professor Emeritus of Mechanical and Aerospace Engineering, B.S.M.E., M.S.M.E., Utah State University, Ph.D., University of Minnesota, Twin Cities
- Wood, Steven D.** 1975, Professor Emeritus of Marketing, B.S., M.A., California State University, San Diego, Ph.D., University of Wisconsin, Madison
- Woodbury, Neal W.** (1987), Professor of Chemistry and Biochemistry; B.S., University of California, Davis, Ph.D., University of Washington
- Woodfill, Marvin C.** 1966, Professor Emeritus of Computer Science and Engineering; B.S., M.S., Ph.D., Iowa State University
- Wooding, Robert R.** (1971), Professor Emeritus of Construction; B.S., United States Naval Academy; B.C.E., M.C.E., Rensselaer Polytechnic Institute
- Woodley, Ann E.** (2000), Professor of Law, Director, Luster Mediation Clinic, B.A., University of Arizona, J.D., Arizona State University
- Woodman, Natalie J.** 1969, Professor Emerita of Social Work, B.A., New York University; M.S.S., Smith College
- Woods, Roosevelt Jr.** 1965, Professor Emeritus of Art; B.S., M.A., Arizona State University
- Woodson, Stephanie E.** (2000), Assistant Professor of Theatre; B.F.A., M.A., University of Texas, Austin, Ph.D., Arizona State University
- Woodward, Mark R.** (1985, Associate Professor of Religious Studies, B.A., M.A., Ph.D., University of Illinois
- Woolf, Charles M.** 1961-63, 1964, Professor Emeritus of Biology, Dean Emeritus, College of Liberal Arts and Sciences and Graduate College; B.S., M.S., University of Utah; Ph.D., University of California Berkeley
- Wooten, William W.** 1959, Professor Emeritus of History; B.A., University of Chicago, M.A., University of Iowa, Ph.D., University of Minnesota, Twin Cities
- Wootton, Richard T.** 1964, Professor Emeritus of Education, B.S., M.S., Ed.D., University of Utah

Wosinski, Marek (1995), Senior Lecturer of Psychology, B.A., M.A., Ph.D., University of Warsaw (Poland)

Wotring, Roxena A. 1994, Clinical Assistant Professor of Nursing, B.S.N., M.S., Arizona State University

Wrenn, C. Gilbert (1965), Professor Emeritus of Counselor Education, A.B. Willamette University, M.A., Ph.D., Stanford University, LL.D., Willamette University

Wright, Johnson Kent (1994), Associate Professor of Interdisciplinary Humanities, Director, Graduate Studies, B.A. Kalamazoo College; M.A., Ph.D., University of Chicago

Wright, M. Lin 1973, Professor Emeritus of Theatre, B.A., M.A., Ph.D., University of Minnesota, Twin Cities

Wu, Ai-Hwa 1964, Librarian Emeritus; B.A., National Taiwan University Taiwan; M.L.S., University of Washington

Wu, Jianguo (1995), Affiliated Faculty of Plant Biology, B.S., University of Inner Mongolia, China, M.S., Ph.D., Miami University

Wulk, Ned W. (1957) Professor Emeritus of Physical Education, B.S., Wisconsin State University; M.Ed., Xavier University

Wurzburger, Marilyn J. 1960, Librarian, Head, Special Collections, B.A. MacMurray College

Wurzell, Carol A. (1965), Professor Emeritus of Nursing, B.S., California State College, Chico, M.S., University of Maryland, College Park

Wyckoff, Susan 1979, Professor of Physics and Astronomy; B.A., Mount Holyoke College, Ph.D. Case Western Reserve University

Wyndelts, Robert W. 1974, Professor of Accounting and Information Management, B.B.A., M.P.A., Georgia State University, Ph.D., University of Georgia, C.P.A., Arizona, Georgia

Wytko, Joseph R. (1975), Professor of Music; B.M.E., West Virginia University, M.M., D.M., Northwestern University

Y

Yabes, Ruth Ammerman (1990), Associate Professor of Planning and Landscape Architecture, B.S. (Planning), B.A. (Economics), University of California, Davis; M.C.P., University of Pennsylvania; Ph.D., Cornell University

Yaghi, Omar M. 1992), Adjunct Professor of Chemistry and Biochemistry, B.S., State University of New York, Albany Ph.D., University of Illinois

Yamaguchi, Gary T. (1989), Associate Professor of Bioengineering, A.B. Occidental College; B.S., California Institute of Technology; S.M.E., Massachusetts Institute of Technology, Ph.D., Stanford University

Yamamori, Tetsumao 1989, Adjunct Professor of Sociology; B.A., Northwest Christian College, B.D., Texas Christian University, Ph.D., Duke University

Yancy, Margaret Lee (1997), Faculty Associate of Nursing; B.S.N., M.S., Arizona State University

Yao, Lun-Shin (1981), Professor of Engineering; B.S.E., Cheng Kung University, M.S., University of Texas, Ph.D., University of California, Berkeley

Yao, Winberta M. (1975), Librarian Emeritus, B.A., University of California, Berkeley; M.S., Columbia University

Yates, Ann M. 1978, Research Professional Emeritus of Chemistry and Biochemistry; B.S. Saint Lawrence University, Ph.D., Arizona State University

Yau, Stephen S. 1994, Professor of Computer Science and Engineering, B.S. National Taiwan University Taiwan; M.S., Ph.D., University of Illinois, Urbana-Champaign

Yazdi, Navid 1998, Assistant Professor of Electrical Engineering, B.Sc. University of Tehran, Iran; M.A.Sc. University of Windsor, Canada; Ph.D. University of Michigan, Ann Arbor

Ye, Nong 1998, Associate Professor of Industrial Engineering, B.S., Peking University, China; M.S.E., Chinese Academy of Sciences, China; Ph.D., Purdue University

Yeater, James W. 1958, Professor Emeritus of Theatre; B.A., Baker University; M.A., University of Washington; Ph.D., University of Illinois

Yellow Bird, Michael J. (2010), Associate Professor of Social Work; B.S.W., University of North Dakota; M.S.W., University of Wisconsin, Milwaukee; Ph.D. University of Wisconsin, Madison

Yepez, Eleanor 1984, Academic Professional of Social Work, B.A., Michigan State University; M.A., Western Michigan University, M.S.W., University of Michigan

Yoshioka, Carlton F. (1988), Professor of Recreation Management and Tourism, B.A. University of California, Santa Barbara, M.A., California State University, Chico, Ph.D., University of Oregon

Youm, Kyu Ho (1991), Professor of Journalism and Telecommunication, B.A., Konkuk University, South Korea; M.A., Ph.D., Southern Illinois University, Carbondale

Young, Bernard 1988, Professor of Art, B.F.A., Temple University, M.F.A., Ph.D., Cornell University

Young, Dennis L. (1975), Professor of Mathematics, B.S., Saint Louis University; M.S., Ph.D., Purdue University

Young, Hewitt H. 1967, Professor Emeritus of Industrial Engineering, B.S.M.E., M.S.I.E., Case Institute of Technology; Ph.D., Arizona State University

Young, Joseph E. (1979), Professor Emeritus of Art, B.A., California State University at Los Angeles, M.A., University of California, Los Angeles

Young, Josephine Peyton 1998, Assistant Professor of Curriculum and Instruction, M.A., University of West Florida; Ph.D., University of Georgia

Young, Michael Cochise (1990), Associate Administrative Professional of the Barrett Honors College, Director, Office of National Scholarship Advisement, B.A., St. Joseph's University, M.A., Ph.D., University of Pennsylvania

Young, Otis E. Jr. (1963), Professor Emeritus of History; A.B., A.M., Ph.D., Indiana University

Youngblood, Robert L. 1973, Professor of Political Science; Chair, Department of Political Science; B.A. Willamette University; M.A., University of Hawaii, Manoa, Ph.D., University of Michigan

Z

Zandieh, Michelle 1997, Assistant Professor of Mathematics; B.A., Northwestern University, M.S., Ph.D., Oregon State University

- Zaslow, Bertram** (1956), Professor Emeritus of Chemistry and Biochemistry, B.A., Cornell University; M.S., University of Minnesota, Twin Cities, Ph.D., Iowa State University
- Zatz, Marjorie S.** (1982), Professor of Justice Studies; Associate Dean, Student Support Services, Graduate College, B.A., University of Massachusetts, Amherst, M.A., Ph.D., Indiana University, Bloomington
- Zautra, Alex** (1976), Professor of Psychology; Director, Clinical Program in Psychology, B.A., Antioch College, M.S., Ph.D., University of Utah
- Zehnder, Joseph A.** (2000), Professor of Geography, B.S., M.S., University of Illinois, Chicago; Ph.D., University of Chicago
- Zeitlin, Marilyn A.** (1992), Director, ASU Art Museum, A.B., M.A., Harvard University
- Zellmer, Linda R.** (1997), Assistant Librarian, Map Collection, B.S., University of Wisconsin, Oshkosh, M.A., College of William and Mary; M.L.S., University of Wisconsin, Milwaukee
- Zhang, Junshan** (2000), Assistant Professor of Electrical Engineering, B.E., Huazong University of Science and Technology, China; M.S., University of Georgia, Ph.D., Purdue University
- Zhang, Young-Hang** (1997), Professor of Electrical Engineering; Nanjing Normal University (China), M.Sc., Institute of Semiconductors, Chinese Science and Technology University, China; Ph.D., University of Stuttgart, Germany
- Zhu, Anmin** (1997), Senior Lecturer of Mathematics, B.S., Anhui University (China), M.S., M.H. University (China), Ph.D., Arizona State University
- Zhu, Han** (1997), Assistant Professor of Civil and Environmental Engineering, B.S., M.S., Fudan University (China), Ph.D., Northwestern University
- Zhu, Yingxian** (1996), Lecturer of Mathematics; B.S., Anhui University (China), M.S., Dalan University of Science and Technology (China), Ph.D., Arizona State University
- Zimiles, Herbert** (1988), Professor of Educational Psychology, B.A., New York University, Ph.D., University of Rochester
- Zimmer, Carl R.** (1959), Professor Emeritus of Engineering; B.S.E.E., Cornell University; M.S.E.E., Ph.D., Syracuse University
- Zucker, Stanley H.** (1975), Professor of Curriculum and Instruction, B.A., State University of New York, Stony Brook; M.S., Hofstra University; Ph.D., University of Missouri, Columbia
- Zunkel, Gretchen M.** (1998), Assistant Professor of Nursing, B.S.N., University of Colorado, M.N., University of California, Los Angeles; M.N., Ph.D., University of Washington
- Zuo, Yijun** (1998), Assistant Professor of Mathematics, B.S., Zhenjian Teachers University (China), M.S., Lanzhou University (China), M.S., Ph.D., University of Texas, Dallas
- Zwiebel, Imre** (1979), Professor Emeritus of Chemical Engineering; B.S., University of Michigan, M.S., Ph.D., Yale University
- Zygas, K. Paul** (1984), Associate Professor of Architecture; A.B., M.Arch., Harvard University; Ph.D., Cornell University

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Director, L. William Seidman Research Institute	Timothy D. Hogan

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Interim Associate Dean, Academic Programs and Personnel	Sarah J. Hudelson
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Assistant Dean, Office of Student Affairs	Inta "Maggie" Tolan
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Academic Program Coordinator, Social and Philosophical Foundations	Eric Margolis
Academic Program Coordinator, Higher and Post Secondary Education	Robert H. Fenske
Director, Division of Psychology in Education	Elsie G. J. Moore
Training Director and Academic Program Leader, Counseling Psychology	Terence Tracey
Academic Program Leader, Counselor Education	Terence Tracey
Interim Training Director, Educational Technology	James D. Klein
Academic Program Leader, Educational Psychology	Edward A. Nelsen
Interim Training Director, School Psychology	Raymond W. Kulhavy
Director, Center for Bilingual Education and Research	Josue M. Gonzalez
Director, Bureau of Educational Research and Services	Margaret A. Mansini
Director, Center for Indian Education	Octaviana Trujillo
Director, Counselor Training Center	Judith Homer
Director, Office of Professional Field Experiences	<i>To Be Appointed</i>

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Associate Dean, Planning and Administration	Ben M. Huey
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Associate Dean, Student Affairs and Special Programs	Mary R. Anderson Row and
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Chair, Department of Chemical and Materials Engineering	Subhash Mahajan
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Chair, Department of Computer Science and Engineering	<i>To Be Appointed</i>
Chair, Department of Electrical Engineering	Stephen M. Goodnick
Chair, Department of Industrial Engineering	Gary L. Hogg
Chair, Department of Mechanical and Aerospace Engineering	<i>To Be Appointed</i>
Director, Engineering Core and Special Studies	Daniel F. Jankowski
Director, Center for Research on Education in Science, Mathematics, Engineering, and Technology.	Donovan L. Evans
Codirector, Center for Low Power Electronics	Dieter K. Schroder
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Interim Director, Telecommunications Research Center.	Joseph Y. Hui

College of Extended Education

See "ASU Extended Campus Administrative Personnel," page 691.

College of Law

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Assistant Dean, Administrative and Business Services.	Rhonda Sandler
Assistant Dean and Director of Admissions	Brenda Brock
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Associate Director, Center for the Study of Law, Science, and Technology.	Andrew Askland
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Director, Development.	Tom Stevick
Director, Legal Research and Writing and Academic Success Program.	Judith M. Stinson
Executive Director, Indian Legal Program	Rebecca A. Tsosie
Associate Director, Indian Legal Program	Kate Rosier

College of Liberal Arts and Sciences

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Associate Dean, Academic Programs	Leonard Gordon
Associate Dean, Administration and Personnel	Nancy A. Gutierrez
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Chair, Department of Political Science	Robert L. Youngblood
Chair, Department of Psychology	Darwyn E. Linder
Chair, Department of Religious Studies	Joel D. Gereboff
Chair, Department of Sociology	Verna M. Keith

Chair, Department of Speech and Hearing Science	David Ingram
Director, African American Studies	Leandra Botkin Johnson
Director, Center for Asian Studies	Tinotti Wong
Director, Cancer Research Institute	G Robert Pettit
Director, Center for the Study of Early Events in Photosynthesis	Andrew N. Webber
Director, Cytology Laboratory	Robert C. Balling
Interim Director, Hispanic Research Center	Gary D. Keller
Director, Interdisciplinary Humanities Program	Charles J. Dellheim
Director, Interdisciplinary Committee for Molecular and Cellular Biology	Robert W. McGaigley
Director, Institute of Human Origins	Donald C. Johnson
Director, Latin American Studies Center	David Swanson
Director, Arizona Center for Medieval and Renaissance Studies	Robert E. Bjork
Director, Center for Meteorite Studies	Carleton B. Moore
Director, Center for Solid State Science	David J. Smith
Director, Program for Southeast Asian Studies	Janet Rush
Director, Women's Studies Program	Kathleen J. Ferraro

College of Nursing

Dean, College of Nursing	Barbara A. Dirand
Associate Dean for Graduate Programs and Research	Patricia Kidd
Associate Dean for Undergraduate Programs and Extended Education	Mary K. Leen
Director, Continuing and Extended Education	David Frahe
Director, Student Services	Jean Craig Stenge
Chair, Division of Adult Health/Parent Child Nursing	Frances Thurber
Chair, Division of Community Health Psychosocial Nursing Systems	Betty J. Gale
Manager, Community Health Services Clinic	Elizabeth Holman

College of Public Programs

Dean, College of Public Programs	Anne L. Schneider
Associate Dean, College of Public Programs	Frederick C. Carey
Assistant Dean, College of Public Programs	Kathryn Gundersen
Director, Student Services	Cheryl Herrera
Director, Hugh Downs School of Human Communication	Jess K. Alberts
Director, Walter Cronkite School of Journalism and Telecommunication	Joe S. Fite
Director, School of Justice Studies	<i>To Be Appointed</i>
Director, School of Public Affairs	Jeffrey Chapman
Director, School of Social Work	Leslie Leighninger
Chair, Department of Recreation Management and Tourism	Randy J. Virden
Director, Advanced Public Executive Program	Peggy O'Sullivan Kachel
Director, American Indian Studies Program	Carl C. Lu'an
Director, Asian Pacific American Studies Program	Thomas K. Nakayama
Director, Morrison Institute for Public Policy	Robert Melnick
Director, Center for Nonprofit Leadership and Management	Robert F. Ashcraft
Director, Center for Urban Inquiry	Peg Bortner

Division of Undergraduate Academic Services

Executive Director	William S. Johnson
Associate Director, Educational Services	Gav W. Brack
Associate Director, Advising Services	Stephanie Jacobson
Director, Student Success Programs	Stephen Rippon
Director, University Academic Advising Center	Casey Self
Director, Bachelor of Interdisciplinary Studies	Christina Stage
Senior Program Coordinator, General Studies	Phyllis Lucie
Senior Business Manager	Kathleen Renshaw

Graduate College

Dean, Graduate College	Banca L. Berstem
Associate Dean, Student Support Services	Marjorie S. Zatz
Associate Dean, Academic Programs	Deborah N. Losse
Assistant Dean, Academic Programs	Sarah B. Lindquist
Assistant Dean, Administrative Services and Information Systems	Kent D. Biaylock

Herberger College of Fine Arts

Dean, Herberger College of Fine Arts	J. Robert Wis
Director, School of Art	Julie F. Codd
Chair, Department of Dance	Chad M. Rphrey
Director, School of Music	Wendy A. Bailey
Chair, Department of Theatre	<i>To Be Appointed</i>

Interim Director, Institute for Studies in the Arts Damel L. Collins
 Director, Undergraduate Student Academic Services Gina Stephens
 Director, ASU Art Museum Marilyn A. Zeitlin

University Libraries

Dean, University Libraries Sherrie Schmidt
 Associate Dean, Continuous Improvement/Total Quality Service *To Be Appointed*
 Associate Dean, Library Services Jane A. Conrow
 Associate Dean, Video Resources *To Be Appointed*
 Assistant Dean, Personnel Kurt R. Murphy
 Head, Access Services Virginia Sylvester
 Head, Architecture and Environmental Design Library Deborah H. Koshunsky
 Head, Department of Archives and Manuscripts Robert P. Spindler
 Head, Government Documents/Map Collection Rebecca Burke
 Interim Head, Interlibrary Loan and Document Delivery Virginia Sylvester
 Head, Library Instruction, Systems, and Technology (LIST) Scott S. Herrington
 Head, Music Library Robert E. Follet
 Head, Preservation Lois I. Schneberger
 Head, Special Collections Marilyn J. Wurzbarger
 Interim Head, Noble Science and Engineering Library Reference Services Linda A. Shackel
 Team Leader, Collection Development Jeanne Richardson
 Team Leader, Reference Services Lydia E. LaFaro
 Team Management, Technical Services Department Betsy J. Redman, Ronda L. Ridenour,
 and Rebecca S. Uhl

Administrative Services, ASU Main

Vice Provost, Administrative Services Mernoy Harrison
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 Director, Operations and Management Dave Brixen
 Director, Engineering Maintenance and Remodeling Services Ted Cary
 Director, Facilities Planning and Construction *To Be Appointed*
 Assistant Director, Administrative Services Polly Pinney
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 Associate Director, Human Resources Connie Wood
 Assistant Director, Human Resources Christine Cervantes
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 Director/Chief of Police, Public Safety John Pickens
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