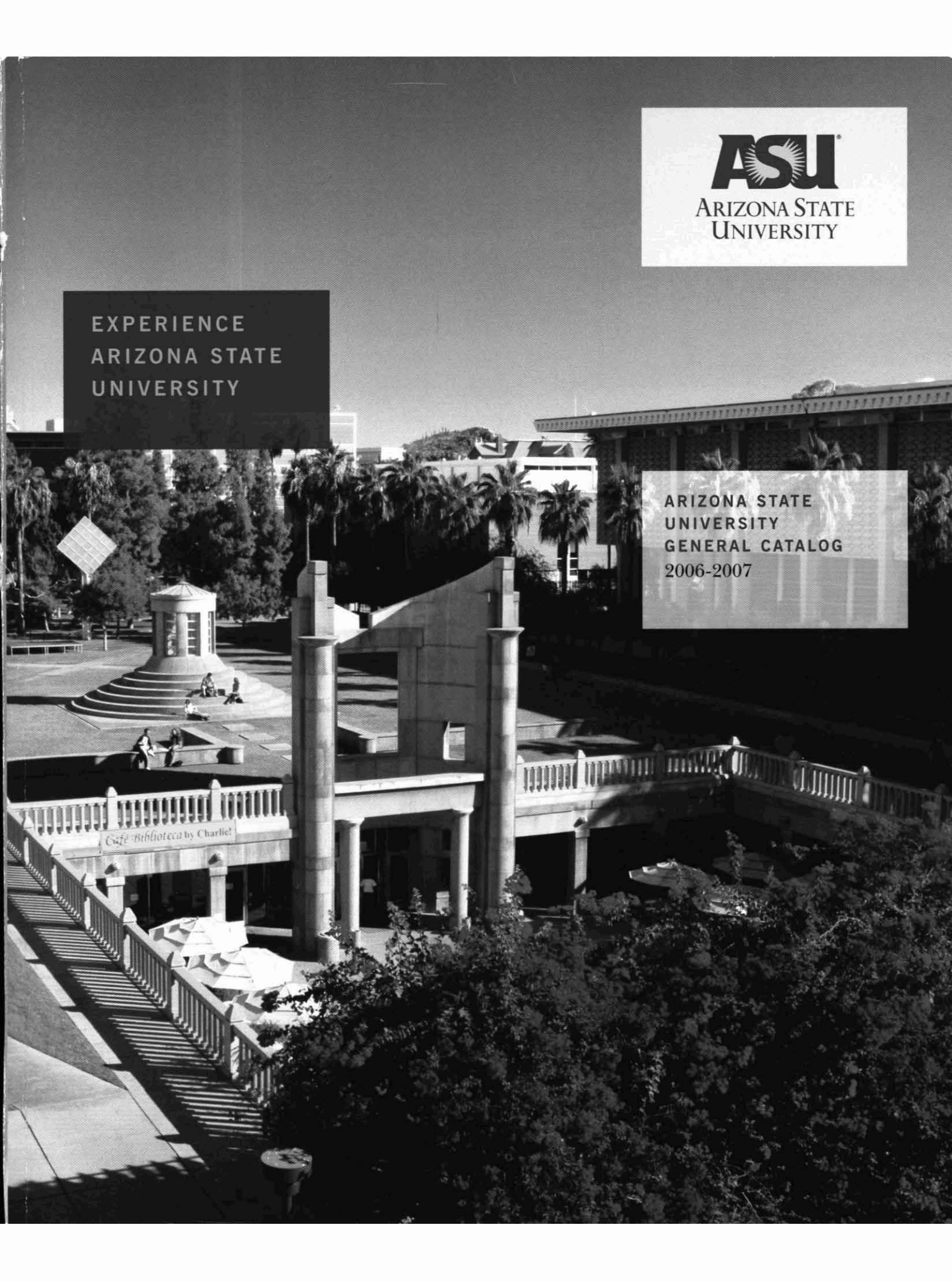




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2006-2007



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Arizona State University

2006–2007 General Catalog

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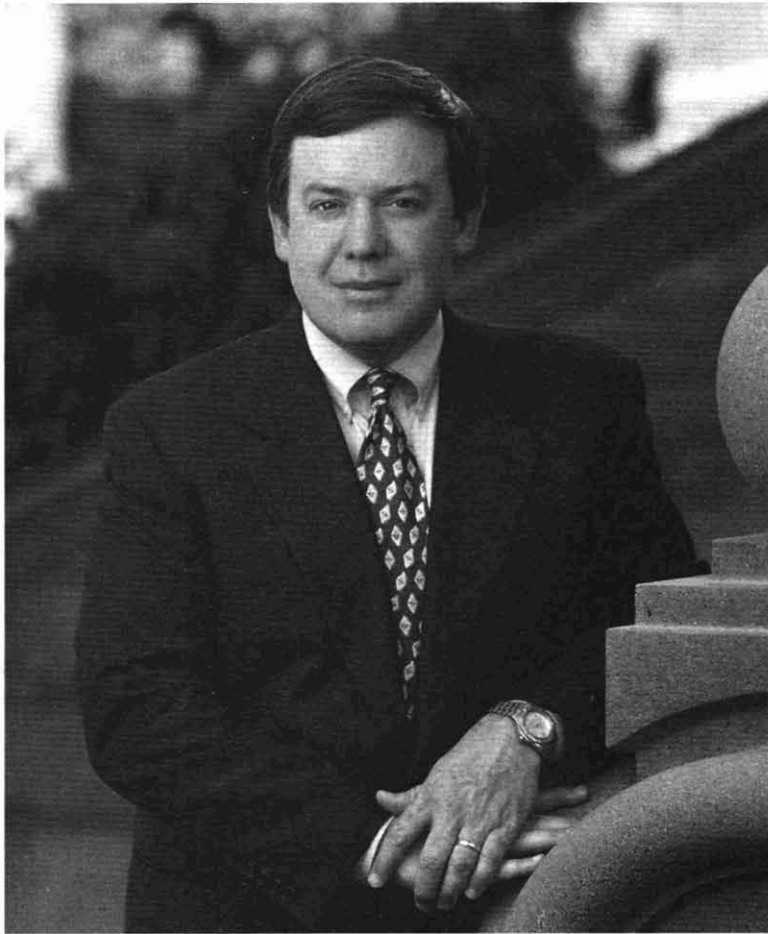
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President Michael M. Crow

Dave Tevis photo

Dear ASU Students and Prospective Students:

Welcome to Arizona State University! I am pleased to introduce the 2006–2007 *General Catalog*. As evidenced in these pages, ASU offers a wide range of academic study, research opportunities, and resources, as well as a talented and enthusiastic faculty to provide you with a quality educational experience that is both challenging and rewarding.

The catalog is organized so that you can effectively find the information most applicable to your course of study. All of the information herein is intended to help guide you through your university experience. However, nothing can replace the guidance of a skilled academic advisor. I strongly encourage you to work closely with an advisor to plan your academic program and in turn, maximize your time at ASU.

I am tremendously excited to welcome you to ASU, and I wish you all the best for a productive and fulfilling collegiate experience.

Sincerely,

A handwritten signature in cursive script that reads "Michael Crow". The signature is written in black ink and is positioned above the printed name and title.

Michael M. Crow
President

Contents

<i>To search by</i>	
Course	7
Degree	13
Unit	19
<hr/>	
President's Message	3
Course Prefixes	7
ASU Baccalaureate Degrees	13
Academic Organization	19
University Calendar	22
Frequently Asked Questions	25
Academic Definitions	26
General Information	28
Mission, Organization	28
Equal Opportunity and Affirmative Action	28
Intergroup Relations Center	29
History of Arizona State University	29
University Campuses and Sites	31
ASU Campus Locations Map	31
University Libraries and Collections	33
Performing and Fine Arts Facilities	34
Computing Facilities and Services	36
Alumni Association	37
Program Assessment and the Office of University Evaluation	37
Learning and Teaching Excellence	38
Research Centers	39
Business, W. P. Carey School of	39
Design, College of	41
East College	41
Education, College of	42
Engineering, Ira A. Fulton School of	42
Fine Arts, The Katherine K. Herberger College of	43
Law, College of	44
Liberal Arts and Sciences, College of	44
Public Programs, College of	49
Research and Economic Affairs, Vice President for	50
Fees, Deposits, and Other Charges	53
Financial Aid	59
Classification of Courses	62
Undergraduate Enrollment	65
Enrollment Services at ASU	65
Office of Undergraduate Admissions	65
Student Financial Assistance	66
University Registrar's Office	66
Undergraduate Admission	66
Credit by Examination	74
Placement Examinations	79
Academic Advising	79
Readmission to the University	80
Academic Renewal	81
Registration	81
Cooperative Programs	82
Grading System	82
Retention and Academic Standards	86
Student Records	87
University Graduation Requirements	89
General Studies	93
General Studies Courses	96
Minors, Certificates, and Interdisciplinary Studies	126
University College	132
Academic Success and Engagement Programs	132
Academic Advising, Center for	133
Extended Education, School of	134
Map, ASU at the Downtown Center	139
Interdisciplinary Studies, School of	139
The Barrett Honors College	145
Graduate Studies, Division of	150
Intercollegiate Interdisciplinary Graduate Programs	161
ASU Graduate Degrees	163
International Programs	170
Summer Sessions	172
<hr/>	
ASU at the Downtown Phoenix Campus ...	173
Student Services	173
Nursing, College of	174
Public Programs, College of	184
Community Resources and Development, School of	189
Public Affairs, School of	192
Social Work, School of	193

ASU at the Polytechnic Campus.....	200	Finance, Department of.....	301
Student Services.....	204	Health Management and Policy, School of.....	302
Agribusiness and Resource Management, Morrison School of.....	206	Information Systems, Department of.....	303
East College.....	214	International Business Studies.....	304
Applied Biological Sciences, Department of.....	219	Management, Department of.....	306
Applied Psychology, Faculty of.....	224	Marketing, Department of.....	309
Business Administration, Faculty of.....	225	Supply Chain Management, Department of.....	311
Education, Faculty of.....	227	Design, College of.....	313
Exercise and Wellness, Department of.....	233	Architecture and Landscape Architecture, School of.....	318
Human Health Studies, Faculty of.....	237	Industrial Design, Department of.....	326
Multimedia Writing and Technical Communication, Faculty of.....	238	Interior Design, Department of.....	331
Nutrition, Department of.....	240	Planning, School of.....	337
Technology and Applied Sciences, College of.....	245	Visual Communication Design, Department of.....	344
Aeronautical Management Technology, Department of.....	249	Education, College of.....	349
Electronics and Computer Engineering Technology, Department of.....	254	Curriculum and Instruction, Division of.....	363
Engineering, Department of.....	258	Educational Leadership and Policy Studies, Division of.....	368
Mechanical and Manufacturing Engineering Technology, Department of.....	259	Psychology in Education, Division of.....	369
Technology Management, Department of.....	264	Engineering, Ira A. Fulton School of.....	371
Computing Studies, Division of.....	271	Construction, Del E. Webb School of.....	379
Map, Polytechnic Campus.....	277	Engineering Programs.....	384
		Bioengineering, Harrington Department of.....	386
		Chemical and Materials Engineering, Department of.....	392
		Civil and Environmental Engineering, Department of.....	402
		Computer Science and Engineering, Department of...	409
		Electrical Engineering, Department of.....	415
		Industrial Engineering, Department of.....	421
		Mechanical and Aerospace Engineering, Department of.....	425
		Engineering Special Studies, Programs in.....	434
		Fine Arts, the Katherine K. Herberger College of.....	437
		Art, School of.....	442
		Dance, Department of.....	464
		Music, School of.....	470
		Theatre and Film, School of.....	483
		Journallism and Mass Communication, Walter Cronkite School of.....	491
		Law, College of.....	496
		Liberal Arts and Sciences, College of.....	499
		Aerospace Studies, Department of.....	515
		African and African American Studies Program.....	517
		American Indian Studies Program.....	522
		Asian Pacific American Studies Program.....	524
		Chemistry and Biochemistry, Department of.....	525
		Chicana and Chicano Studies, Department of.....	533
		Computational Biosciences.....	535
		Economics.....	535
		English, Department of.....	537
		Family and Human Development, Department of.....	544
ASU at the Tempe Campus.....	278		
Student Services.....	279		
Residential Life.....	279		
Student Development and the Memorial Union.....	279		
Student Life.....	281		
Student Risk Management.....	281		
Multicultural Student Services.....	282		
Educational Development.....	282		
Learning Support Services.....	282		
Dean of Students Office.....	284		
Counseling and Consultation.....	284		
Campus Health Service.....	285		
Wellness and Health Promotion.....	285		
Student Media.....	286		
Career Services.....	286		
Recreation Complex and Campus Recreation.....	286		
Arizona Prevention Resource Center.....	286		
Intercollegiate Athletics.....	287		
Faith Communities.....	287		
Other Opportunities for Student Involvement.....	287		
Business, W. P. Carey School of.....	288		
Accountancy, School of.....	297		
Economics, Department of.....	298		

CONTENTS

Film and Media Studies.....	545	Human Services, College of.....	677
Geography, Department of	547	Gerontology (University-wide) Program	686
Geological Sciences, Department of	553	Interdisciplinary Arts and Sciences,	
Global Studies, School of	556	New College of.....	696
History, Department of	557	Teacher Education and Leadership,	
Human Communication, Hugh Downs		College of.....	745
School of.....	564	Map, West Campus	757
Human Evolution and Social Change, School of	567		
Justice and Social Inquiry, School of.....	572	<hr/>	
Kinesiology, Department of.....	576	President’s and Regents’ Professors.....	758
Languages and Literatures, Department of.....	580	Faculty and Academic Professionals	760
Life Sciences, School of	597	Downtown Phoenix Campus.....	760
Mathematics and Statistics, Department of	612	Polytechnic Campus	767
Military Science, Department of	620	Tempe Campus.....	772
Philosophy, Department of	622	West Campus	837
Physics and Astronomy, Department of	624	Administrative Personnel.....	845
Political Science, Department of	629	Downtown Phoenix Campus.....	848
Psychology, Department of.....	635	Polytechnic Campus.....	849
Religious Studies, Department of.....	639	Tempe Campus.....	850
Sociology, Department of.....	642	West Campus	854
Speech and Hearing Science, Department of	646	Accreditation and Affiliation	855
Women and Gender Studies Program.....	647	Index	862
		Directory	898
		Downtown Phoenix Campus.....	898
		Polytechnic Campus.....	899
		Tempe Campus.....	900
		West Campus	906
		Building Abbreviations.....	908
		Tempe Campus Map	inside back cover
<hr/>			
ASU at the West Campus.....	651		
Campus and Student Services	657		
The Barrett Honors College	663		
University College.....	665		
Global Management and Leadership,			
School of	667		

Course Prefixes

ASU course prefixes are preceded by a campus code to indicate the campus of the college or school that controls the course content: Downtown Phoenix (D), Polytechnic (E), Tempe (M), and West (W).

See the *Schedule of Classes*, available on the Web at www.asu.edu/registrar/schedule, to determine locations where classes are scheduled. A class may be scheduled on a campus that does not control the course.

See the "Course Prefixes" table below for the campus of the college or school responsible for the course and for the

page in this catalog where the courses are listed. Courses numbered below 500 are listed in the *General Catalog*. Courses numbered 500 or higher are listed in the *Graduate Catalog*. For more information, see "Classification of Courses," page 62.

Information about all courses is available on the Web at www.asu.edu/aad/catalogs/courses; information on the Web is more current than in the printed catalogs. Access the Web site for lists of these newly approved prefixes: HIN, ICO, LAD, LAP, LDE, LNP, LTC, PLC, PRM, and TDM.

Course Prefixes

Prefix	Name	Downtown	Polytechnic	Tempe	West
AAD	Architectural Administration and Management	—	—	323	—
ABS	Applied Biological Sciences	—	222	—	—
ACC	Accountancy	—	—	298	674
ACO	Applied Computing	—	—	—	727
ADE	Architectural Design and Technology Studios	—	—	323	—
AES	Aerospace Studies	—	—	516	—
AET	Aeronautical Engineering Technology	—	262	—	—
AFH	African and African American Studies Humanities	—	—	519	—
AFR	African and African American Studies	—	—	520	—
AFS	African and African American Studies Social Science	—	—	521	—
AGB	Agribusiness	—	211	—	—
AIS	American Indian Studies	—	—	523	—
ALA	Architecture and Landscape Architecture	—	—	324	—
AME	Arts, Media, and Engineering	—	—	M*	—
AMS	American Studies	—	—	—	719
AMT	Aeronautical Management Technology	—	252	—	—
ANP	Environmental Analysis and Programming	—	—	324	—
ANT	Anthropology	—	216	—	—
APA	Asian Pacific American Studies	—	—	524	—
APH	Architectural Philosophy and History	—	—	324	—
APM	Applied Mathematics	—	216	—	—
ARA	Art Auxiliary	—	—	456	711
ARB	Arabic	—	—	586	—
ARD	Art	—	216	—	—
ARE	Art Education	—	—	457	—
ARP	Architecture Professional Studies	—	—	325	—
ARS	Art History	—	—	457	711
ART	Art	—	—	460	711
ASB	Anthropology (Social and Behavioral)	—	—	569	735
ASC	Applied Science Core	—	216	—	—

* See the *Graduate Catalog*.

COURSE PREFIXES

Course Prefixes (continued)

Prefix	Name	Downtown	Polytechnic	Tempe	West
ASM	Anthropology (Science and Mathematics)	—	—	571	—
AST	Astronomy	—	—	626	707
ATE	Architectural Technology	—	—	325	—
AVC	Architectural Communication	—	—	325	—
BCH	Biochemistry	—	—	530	—
BCS	Serbo-Croatian	—	—	587	—
BIO	Biology	—	—	603	702
BIS	Bachelor of Interdisciplinary Studies	140	—	—	—
BLE	Bilingual Education	—	—	363	—
BLE	Bilingual/Bicultural Education	—	—	—	749
BME	Bioengineering	—	—	391	—
BUA	Business Administration	—	226	—	—
BUE	Business Education	—	—	364	—
BUS	Business	—	—	—	W*
CBS	Computational Biosciences	—	—	M*	—
CCS	Chicana and Chicano Studies	—	—	533	—
CDE	Child Development	—	—	544	—
CED	Counselor Education	—	—	369	—
CEE	Civil and Environmental Engineering	—	—	407	—
CET	Computer Engineering Technology	—	274	—	—
CFA	College of Fine Arts	—	—	442	—
CHE	Chemical Engineering	—	—	399	—
CHI	Chinese	—	—	587	—
CHM	Chemistry	—	—	530	702
CHP	Community Health Practice	D*	—	—	—
CIS	Computer Information Systems	—	—	303	676
CLS	Clinical Laboratory Sciences/Medical Technology	—	—	607	—
CMA	Communication	—	217	—	—
COE	College of Education	—	—	M*	—
COM	Communication Studies	—	—	—	681
COM	Hugh Downs School of Human Communication	—	—	565	—
CON	Construction	—	—	383	—
CPP	College of Public Programs	188	—	—	—
CPY	Counseling Psychology	—	—	M*	—
CRJ	Criminal Justice	—	—	—	684
CSE	Computer Science and Engineering	—	—	413	750
CSH	Chicana and Chicano Studies Humanities	—	—	534	—
CSS	Chicana and Chicano Studies Social Science	—	—	534	—
CST	Computing Studies	—	274	—	—
DAH	Dance History	—	—	467	—
DAN	Dance	—	—	467	—
DCI	Curriculum and Instruction	—	—	364	—
DNC	Dance	—	217	—	—
DSC	Design	—	—	318	—

* See the *Graduate Catalog*.

COURSE PREFIXES

Course Prefixes (continued)

Prefix	Name	Downtown	Polytechnic	Tempe	West
EAC	Early Childhood East	—	230	—	—
ECD	Early Childhood Education	—	—	364	750
ECN	Economics	—	—	299	675
EDA	Educational Administration and Supervision	—	—	M*	W*
EDB	Elementary Education Program	—	—	64	—
EDC	Education East	—	230	—	—
EDP	Educational Psychology	—	—	370	750
EDT	Educational Technology	—	—	370	756
EED	Elementary Education	—	—	365	750
EEE	Electrical Engineering	—	—	419	—
EET	Electronics Engineering Technology	—	256	—	—
EGR	Engineering	—	259	—	—
ELL	English as a Second Language	—	232	—	—
ENG	English	—	—	539	721
ENH	English/Humanities	—	217	—	—
EPA	Education Policy Analysis	—	—	M*	—
EPD	Environmental Design and Planning	—	—	M*	—
ETC	Engineering Technology Core	—	248	—	—
ETH	Ethnic Studies	—	—	—	700
ETM	Environmental Technology Management	—	267	—	—
EXW	Exercise and Wellness	—	235	—	—
FAM	Family and Human Development	—	217	—	—
FAS	Family Studies	—	—	545	736
FIN	Finance	—	—	301	675
FLA	Foreign Languages	—	—	585	—
FMP	Film and Media Production	—	—	487	—
FMS	Film and Media Studies	—	—	546	—
FRE	French	—	—	587	—
FSA	Fire Service Administration	—	E*	—	—
FSE	Fulton School of Engineering	—	—	386	—
FSM	Fire Service Management	—	268	—	—
GCU	Cultural Geography	—	—	550	736
GER	German	—	—	589	—
GIT	Graphic Information Technology	—	269	—	—
GLB	Global Business	—	—	—	676
GLG	Geological Sciences	—	—	554	702
GPH	Physical Geography	—	—	551	—
GRA	Graphic Design	—	—	347	—
GRD	Division of Graduate Studies	—	—	M*	—
GRK	Ancient Greek	—	—	590	—
GRN	Gerontology	—	—	687	687
GTD	Global Technology and Development	—	E*	—	—
HCR	Health Care Related	182	—	—	—
HEB	Hebrew	—	—	590	—

* See the *Graduate Catalog*.

COURSE PREFIXES

Course Prefixes (continued)

Prefix	Name	Downtown	Polytechnic	Tempe	West
HED	Higher and Postsecondary Education	—	—	M*	—
HES	Health Science	—	—	578	690
HHS	Human Health Studies	—	237	—	—
HIS	History	—	—	—	723
HON	Honors	—	—	148	664
HPS	History and Philosophy of Science	—	—	607	—
HSM	Health Sector Management	—	—	302	—
HST	History	—	—	559	—
HTY	History	—	217	—	—
HUD	Housing and Urban Development	—	—	341	—
HUM	Humanities	—	—	515	—
IAP	Interdisciplinary Arts and Performance	—	—	—	711
IAS	Integrative Studies	—	—	—	707
IBS	International Business Studies	—	—	305	—
IDN	Indonesian	—	—	590	—
IED	Indian Education	—	—	366	—
IEE	Industrial Engineering	—	—	424	—
IMD	Instructional Media	—	232	—	—
IND	Industrial Design	—	—	330	—
INT	Interior Design	—	—	335	—
IPO	International Programs	—	—	64	—
ITA	Italian	—	—	590	—
JAC	Joint Admission Continuous Enrollment	—	64	—	—
JMC	Journalism and Mass Communication	—	—	493	—
JPN	Japanese	—	—	591	—
JUS	Justice Studies	—	—	574	—
KIN	Kinesiology	—	—	578	—
KOR	Korean	—	—	592	—
LAT	Latin	—	—	592	—
LAW	Law	—	—	M*	—
LES	Legal and Ethical Studies	—	—	311	674
LIA	Liberal Arts and Sciences	—	—	515	—
LIN	Linguistics	—	—	M*	—
LIS	Library Science	—	—	M*	—
LSC	Life Sciences	—	—	—	702
LTE	Learning and Teaching Excellence	—	—	M*	—
MAE	Mechanical and Aerospace Engineering	—	—	431	—
MAK	Macedonian	—	—	592	—
MAS	Master of Arts in Interdisciplinary Studies	—	—	—	W*
MAT	Mathematics	—	—	616	727
MBB	Molecular Biosciences/Biotechnology	—	—	608	—
MCB	Molecular and Cellular Biology	—	—	M*	—
MCE	Multicultural Education	—	—	367	—
MCN	Mass Communication	—	217	—	—

* See the *Graduate Catalog*.

COURSE PREFIXES

Course Prefixes (continued)

Prefix	Name	Downtown	Polytechnic	Tempe	West
MCO	Mass Communication	—	—	495	—
MET	Mechanical and Manufacturing Engineering Technology	—	262	—	—
MGT	Management	—	—	308	676
MHL	Music History/Literature	—	—	478	—
MIC	Microbiology	—	—	608	—
MIS	Military Science	—	—	621	—
MKT	Marketing	—	—	309	675
MLS	Master of Liberal Studies	—	—	M*	—
MSC	Music	—	217	—	—
MSE	Materials Science and Engineering	—	—	400	—
MTC	Music Theory and Composition	—	—	479	—
MTE	Mathematics Education	—	—	619	750
MUE	Music Education	—	—	479	751
MUP	Music Performance	—	—	480	—
MUS	Music	—	—	483	714
NLM	Nonprofit Leadership and Management	190	—	—	—
NOR	Norwegian	—	—	592	—
NTR	Nutrition	—	243	—	—
NUR	Nursing	182	—	—	—
OMT	Operations Management Technology	—	270	—	—
OPM	Operations and Production Management	—	—	—	676
PAF	Public Affairs	193	—	—	—
PGM	Professional Golf Management	—	213	—	—
PGS	Psychology (Social and Behavioral)	—	—	636	737
PHI	Philosophy	—	—	623	708
PHL	Philosophy	—	218	—	—
PHS	Physical Sciences	—	—	627	—
PHY	Physics	—	—	627	704
PLA	Landscape Architecture	—	—	325	—
PLB	Plant Biology	—	—	610	—
PLS	Political Science	—	218	—	—
POL	Political Science	—	—	—	738
POR	Portuguese	—	—	593	—
POS	Political Science	—	—	632	—
PPE	Physical Education East	—	232	—	—
PSY	Psychology (Science and Mathematics)	—	225	638	739
PUB	Scholarly Publishing	—	—	M*	—
PUP	Urban and Environmental Planning	—	—	341	—
QBA	Quantitative Business Analysis	—	—	300	675
RDG	Reading Education	—	—	367	751
REA	Real Estate	—	227	—	—
REA	Real Estate Studies	—	—	302	—
REC	Recreation Management and Tourism	191	—	—	—
REL	Religious Studies	—	—	640	729

* See the *Graduate Catalog*.

COURSE PREFIXES

Course Prefixes (continued)

Prefix	Name	Downtown	Polytechnic	Tempe	West
ROM	Romanian	—	—	593	—
RTM	Recreation and Tourism Management	—	—	—	691
RUS	Russian	—	—	593	—
SBS	Social and Behavioral Sciences	—	—	—	740
SCA	Scandinavian	—	—	594	—
SCI	Science Education	—	233	—	—
SCL	Sociology	—	218	—	—
SCM	Supply Chain Management	—	—	312	—
SDE	Secondary Education East	—	233	—	—
SED	Secondary Education	—	—	367	753
SEM	Science and Engineering of Materials	—	—	M*	—
SET	Security Engineering Technology	—	E*	—	—
SGS	School of Global Studies	—	—	556	—
SHS	Speech and Hearing Science	—	—	646	—
SLV	Slavic	—	—	594	—
SOC	Sociology	—	—	643	741
SPA	Spanish	—	—	595	724
SPC	Special Education East	—	233	—	—
SPE	Special Education	—	—	367	754
SPF	Social and Philosophical Foundations	—	—	369	—
SPN	Spanish	—	218	—	—
STP	Statistics and Probability	—	—	619	728
SWE	Swedish	—	—	596	—
SWG	Social Work (Graduate Program)	D*	—	—	W*
SWU	Social Work (Undergraduate Program)	198	—	—	694
TEL	Teacher Education and Leadership	—	—	—	751
THA	Thai	—	—	596	—
THE	Theatre	—	—	487	714
THP	Theatre Performance and Production	—	—	488	714
THR	Theatre	—	218	—	—
TMC	Technology Management Core	—	270	—	—
TRC	Transportation Systems Certificate	—	—	M*	—
TWC	Multimedia Writing and Technical Communication	—	239	—	—
UET	Microelectronics Engineering Technology	—	257	—	—
UNI	Academic Success at the University	133	—	—	—
UNI	University Academic Success	—	—	—	665
VTN	Vietnamese	—	—	597	—
WAC	Writing Across the Curriculum	—	—	543	725
WNS	Women's Studies	—	218	—	—
WPC	School of Business	—	—	296	—
WSH	Women's Studies Humanities	—	—	649	—
WST	Women's Studies	—	—	650	744
X--	Cohort Management	64	64	64	64

* See the *Graduate Catalog*.

ASU Baccalaureate Degrees

Baccalaureate degrees, majors, and concentrations offered by ASU colleges and schools are shown in the “ASU Baccalaureate Degrees” table below, organized by the name of the major. The table points to the primary page where more information can be found. The table shows only officially approved concentrations; other informal areas of study may also be available. The table shows the campus of the college or school offering the major: Downtown Phoenix, Polytechnic, Tempe, or West. For graduate degrees, see the “ASU Graduate Degrees” table, page 163.

ASU offers these baccalaureate degrees, abbreviated in the table below and elsewhere in the catalog:

Bachelor of Applied Science (BAS)
Bachelor of Arts (BA)

Bachelor of Arts in Education (BAE)
Bachelor of Fine Arts (BFA)
Bachelor of Interdisciplinary Studies (BIS)
Bachelor of Liberal Studies (BLS)
Bachelor of Music (BM)
Bachelor of Science (BS)
Bachelor of Science in Design (BSD)
Bachelor of Science in Engineering (BSE)
Bachelor of Science in Landscape
Architecture (BSLA)
Bachelor of Science in Nursing (BSN)
Bachelor of Science in Planning (BSP)
Bachelor of Social Work (BSW)

ASU Baccalaureate Degrees

Major	Degree	Concentration ¹	Campus	Page
Accountancy	BS	—	Tempe	297
		—	West	671
Aeronautical Management Technology ²	BS	Air transportation management or professional flight	Polytechnic	249
Aerospace Engineering	BSE	—	Tempe	426
African and African American Studies	BA	Humanities/arts; politics and society; or social and behavioral sciences	Tempe	517
Agribusiness	BS	Agribusiness finance; food, agribusiness, and consumer products marketing; food science; general agribusiness; golf and facilities management; international agribusiness; management of agribusiness; preveterinary medicine; or professional golf management	Polytechnic	207
American Indian Studies	BS	—	Tempe	522
American Studies	BA	—	West	714
Anthropology	BA	—	Tempe	567
Applied Biological Sciences	BS	Applied biological sciences, applied biological sciences/secondary education, urban horticulture, or wildlife and restoration ecology	Polytechnic	219
Applied Computer Science	BS	—	Polytechnic	272
Applied Computing	BS	Database systems, network and distributed processing, or digital media and graphic design	West	725
Applied Psychology	BS	—	Polytechnic	224
Applied Science	BAS	Aviation maintenance management technology	Polytechnic	252
		Aviation management technology	Polytechnic	252
		Computer systems administration	Polytechnic	274

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

² This major requires more than 120 semester hours to complete.

³ This program is also offered through the School of Extended Education.

⁴ Applications for this program are not being accepted at this time.

⁵ This program is administered by the Downtown Phoenix campus.

ASU BACCALAUREATE DEGREES

ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration ¹	Campus	Page
Applied Science (continued)	BAS	Consumer products technology	Polytechnic	210
		Digital media management	Polytechnic	266
		Digital publishing	Polytechnic	266
		Emergency management ³	Polytechnic	266
		Fire service management ³	Polytechnic	267
		Food retail management	Polytechnic	210
		Food service management	Polytechnic	243
		Instrumentation	Polytechnic	256
		Internet and Web development	Polytechnic	267
		Law enforcement management	Polytechnic	267
		Manufacturing technology and management	Polytechnic	261
		Materials joining and manufacturing technology	Polytechnic	261
		Microcomputer systems	Polytechnic	274
		Multimedia writing and technical communication	Polytechnic	239
		Municipal operations management	Polytechnic	267
		Operations management technology	Polytechnic	266
		Semiconductor technology	Polytechnic	256
		Software technology applications	Polytechnic	274
		Technical graphics	Polytechnic	266
		Wellness	Polytechnic	234
		Any minor available at the West campus or an individualized concentration	West ³	654
Architectural Studies	BSD	—	Tempe	320
Art	BA	Art history, digital art, museum studies, or studio art	Tempe	444
	BFA	Art education, ceramics, drawing, fibers, intermedia, metals, painting, photography, printmaking, or sculpture	Tempe	448
Asian Languages (Chinese/Japanese)	BA	—	Tempe	580
Biochemistry	BA	—	Tempe	527
	BS	Optional: medicinal chemistry ¹	Tempe	528
Bioengineering	BSE	—	Tempe	386
Biology	BS	Optional: biology and society ¹	Tempe	597
Business Administration	BS	—	Polytechnic	225
Chemical Engineering	BSE	—	Tempe	393
Chemistry	BA	—	Tempe	525
	BS	Optional: environmental chemistry ¹	Tempe	526
Chicana and Chicano Studies	BA	Humanities/cultural sciences or social sciences/policy	Tempe	533
Civil Engineering	BSE	Optional: construction engineering or environmental engineering ¹	Tempe	403
Clinical Laboratory Sciences	BS	—	Tempe	598
Communication	BA, BS	—	Tempe ³	564
Communication Studies	BA, BS	—	West	678
Computational Mathematical Sciences	BS	—	Tempe	613
Computer Information Systems	BS	—	Tempe	303
Computer Science	BS	Optional: software engineering ¹	Tempe	410

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

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ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration ¹	Campus	Page
Computer Systems ²	BS	Computer hardware technology or embedded systems technology	Polytechnic	272
Computer Systems Engineering	BSE	—	Tempe	411
Conservation Biology	BS	—	Tempe	599
Construction	BS	General building construction, heavy construction, residential construction, or specialty construction	Tempe	380
Criminal Justice and Criminology	BS	—	West	683
Dance	BFA	Choreography, dance education, dance studies, or performance	Tempe	464
Design Science ⁴	BSD	—	Tempe	314
Early Childhood Education	BAE	—	Tempe	356
Economics	BS	—	Tempe	298 535
Electrical Engineering	BSE	—	Tempe	416
Electronics Engineering Technology ²	BS	Electronic systems, microelectronics, or telecommunications	Polytechnic	254
Elementary Education	BAE	—	Polytechnic	227
		Optional: bilingual education/English as a second language or early childhood education ¹	West	746
		Optional: indigenous teacher preparation program or multilingual/multicultural education ¹	Tempe ³	359
Engineering	BSE	—	Polytechnic	258
Engineering Interdisciplinary Studies ⁴	BS	—	Tempe	375
Engineering Special Studies	BSE	Premedical engineering	Tempe	434
English	BA	Creative writing, linguistics, or literature	Tempe ³	537
		—	West ³	715
Environmental Technology Management	BS	—	Polytechnic	265
Ethnicity, Race, and First Nations Studies	BA	—	West	698
Exercise and Wellness	BS	Exercise and wellness or health promotion	Polytechnic	233
Family and Human Development	BS	Optional: family studies/child development ¹	Tempe	544
Film	BA	Film and media production	Tempe	485
		Film and media studies	Tempe	545
Finance	BS	—	Tempe	301
French	BA	—	Tempe	581
Geography	BA, BS	Meteorology-climatology or urban studies	Tempe	547
Geological Sciences	BS	—	Tempe	553
German	BA	—	Tempe	581
Global Business	BS	Financial management, leadership and management, or marketing	West	669

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

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ASU BACCALAUREATE DEGREES

ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration ¹	Campus	Page
Global Studies	BA	—	Tempe	556
Graphic Design	BSD	—	Tempe	346
Graphic Information Technology	BS	—	Polytechnic	265
History	BA	—	Tempe ³ West ³	557 717
Housing and Urban Development	BSD	—	Tempe ³	340
Human Health Studies	BA, BS	—	Polytechnic	237
Industrial Design	BSD	—	Tempe	326
Industrial Engineering	BSE	—	Tempe	421
Integrated Studies	BA, BS	—	Tempe	508
Integrative Studies	BA	Any minor available at the West campus or individualized concentration	West	706
Interdisciplinary Arts and Performance	BA	—	West	709
Interdisciplinary Studies	BIS	See the “BIS Concentrations” table, page 142.	Polytechnic ³ Downtown ³	214 139
Interior Design	BSD	—	Tempe	331
Italian	BA	—	Tempe	581
Journalism and Mass Communication	BA	Journalism, media analysis and criticism, media management, media production, or strategic media and public relations	Tempe	492
Justice Studies	BS	—	Tempe	573
Kinesiology	BS	Exercise science, movement science, or teacher preparation ⁴	Tempe	576
Landscape Architecture	BSLA	—	Tempe	321
Leadership in International Management	BS	—	West	670
Liberal Studies	BLS	—	Tempe	508
Life Sciences	BS	—	West	700
Management	BS	—	Tempe	306
Manufacturing Engineering Technology ²	BS	Manufacturing engineering technology or mechanical engineering technology	Polytechnic	260
Marketing	BS	—	Tempe	309
Materials Science and Engineering	BSE	—	Tempe	396
Mathematics	BA BS	— Optional: statistics ¹	Tempe Tempe	612 612
Mechanical Engineering	BSE	—	Tempe	429
Mechanical Engineering Technology ²	BS	Aeronautical engineering technology, automation engineering technology, or mechanical engineering technology	Polytechnic	260
Microbiology	BS	—	Tempe	599

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

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ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration ¹	Campus	Page
Molecular Biosciences/ Biotechnology	BS	—	Tempe	600
Multimedia Writing and Technical Communication	BS	—	Polytechnic	238
Music	BA	—	Tempe	471
Music Education ²	BM	Choral-general, instrumental, or string	Tempe	471
Music Therapy ²	BM	—	Tempe	473
Nursing	BSN	—	Polytechnic ⁵ Downtown ³ West ^{3,5}	215 176 687
Nutrition	BS	Dietetics, food and nutrition management, human nutrition, or nutrition communication	Polytechnic	240
Operations Management Technology	BS	—	Polytechnic	265
Performance	BM	Collaborative piano, guitar, jazz, keyboard, music theatre, orchestral instrument, or voice	Tempe	474
Philosophy	BA	—	Tempe	622
Physics	BS	—	Tempe	624
Plant Biology	BS	Environmental science and ecology or plant biochemistry and molecular biology	Tempe	600
Political Science	BA, BS	—	Tempe ³ West	629 731
Psychology	BA, BS	—	Tempe ³ West ³	635 732
Real Estate	BS	—	Polytechnic	226
Recreation	BS	Recreation management or tourism management	Downtown	189
Recreation and Tourism Management	BS	—	West	688
Religious Studies	BA	—	Tempe ³	639
Russian	BA	—	Tempe	582
Secondary Education	BAE	Academic specializations: biological sciences, business, chemistry, Chicana and Chicano studies, ⁴ economics, English, family and human development, ⁴ French, geography, German, history, Japanese, mathematics, physics, political science, social studies, or Spanish Academic specializations: English, history, mathematics, or social studies Academic specialization: physical education	Tempe West Polytechnic	359 752 228
Selected Studies in Education ⁴	BAE	—	Tempe	360
Social and Behavioral Sciences	BA, BS	—	West	730
Social Work	BSW	—	Downtown ³ West ³	195 692

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

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⁴ Applications for this program are not being accepted at this time.

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ASU BACCALAUREATE DEGREES

ASU Baccalaureate Degrees (continued)

Major	Degree	Concentration ¹	Campus	Page
Sociology	BA	—	Tempe ³	642
			West ³	733
	BS	—	West ³	733
Spanish	BA	—	Tempe	582
			West	719
Special Education	BAE	—	Tempe	354
			West	753
Speech and Hearing Science	BS	—	Tempe	646
Supply Chain Management	BS	—	Tempe	311
Theatre	BA	Optional: acting or scenography ¹	Tempe	484
Theory and Composition	BM	Composition or theory	Tempe	477
Urban Planning	BSP	—	Tempe	337
Women and Gender Studies	BA	—	Tempe	649
Women's Studies	BA, BS	—	West	743

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Academic Organization

ASU is one university organized around colleges and schools rather than campuses. The units shown have faculty members who offer courses toward academic credit. To determine the campus where a college or school is located, refer to the “ASU Academic Organization” table below.

ASU Academic Organization

Unit	Campus	Page
Barrett Honors College	All	145
Barrett Honors College at the West Campus	West	663
College of Design	Tempe	313
Department of Industrial Design		326
Department of Interior Design		331
Department of Visual Communication Design		344
School of Architecture and Landscape Architecture		318
School of Planning		337
College of Education	Tempe	349
Division of Curriculum and Instruction		363
Division of Educational Leadership and Policy Studies		368
Division of Psychology in Education		369
College of Human Services	West	677
Department of Communication Studies		678
Department of Criminal Justice and Criminology		683
Department of Recreation and Tourism Management		688
Department of Social Work		692
Gerontology Program (university-wide program)		686
Nursing (Tempe campus program)		687
College of Law	Tempe	496
College of Liberal Arts and Sciences	Tempe	499
African and African American Studies Program		517
American Indian Studies Program		522
Asian Pacific American Studies Program		524
Department of Aerospace Studies		515
Department of Chemistry and Biochemistry		525
Department of Chicana and Chicano Studies		533
Department of English		537
Department of Family and Human Development		544
Department of Geography		547
Department of Geological Sciences		553
Department of History		557
Department of Kinesiology		576
Department of Languages and Literatures		580
Department of Mathematics and Statistics		612
Department of Military Science		620
Department of Philosophy		622
Department of Physics and Astronomy		624
Department of Political Science		629
Department of Psychology		635
Department of Religious Studies		639
Department of Sociology		642
Department of Speech and Hearing Science		646
Hugh Downs School of Human Communication		564

ACADEMIC ORGANIZATION

ASU Academic Organization (continued)

Unit	Campus	Page
College of Liberal Arts and Sciences (continued)	Tempe	499
School of Global Studies		556
School of Human Evolution and Social Change		567
School of Justice and Social Inquiry		572
School of Life Sciences		597
Women and Gender Studies Program		647
College of Nursing	Downtown	174
College of Public Programs	Downtown	184
School of Community Resources and Development		189
School of Public Affairs		192
School of Social Work		193
College of Teacher Education and Leadership	West	745
Department of Elementary Education		747
Department of Graduate Studies and Professional Development		756
Department of Secondary Education		752
Department of Special Education		753
College of Technology and Applied Sciences	Polytechnic	245
Department of Aeronautical Management Technology		249
Department of Electronics and Computer Engineering Technology		254
Department of Engineering		258
Department of Mechanical and Manufacturing Engineering Technology		259
Department of Technology Management		264
Division of Computing Studies		271
Division of Graduate Studies	Tempe	150
East College	Polytechnic	214
Department of Applied Biological Sciences		219
Department of Exercise and Wellness		233
Department of Nutrition		240
Faculty of Applied Psychology		224
Faculty of Business Administration		225
Faculty of Education		227
Faculty of Human Health Studies		237
Faculty of Multimedia Writing and Technical Communication		238
Ira A. Fulton School of Engineering	Tempe	371
Del E. Webb School of Construction		379
Department of Chemical and Materials Engineering		392
Department of Civil and Environmental Engineering		402
Department of Computer Science and Engineering		409
Department of Electrical Engineering		415
Department of Industrial Engineering		421
Department of Mechanical and Aerospace Engineering		425
Harrington Department of Bioengineering		386
Katherine K. Herberger College of Fine Arts	Tempe	437
Department of Dance		464
School of Art		442
School of Music		470
School of Theatre and Film		483
Morrison School of Agribusiness and Resource Management	Polytechnic	206
New College of Interdisciplinary Arts and Sciences	West	696
Department of Integrated Natural Sciences		700
Department of Integrative Studies		704
Department of Interdisciplinary Arts and Performance		709

ASU Academic Organization (continued)

Unit	Campus	Page
New College of Interdisciplinary Arts and Sciences (continued)	West	696
Department of Language, Cultures, and History		714
Department of Mathematical Sciences and Applied Computing		725
Department of Social and Behavioral Sciences		730
Ethnic Studies Program		698
Interdisciplinary Studies Graduate Program		696
Religious Studies Program		729
Women's Studies Program		743
School of Global Management and Leadership	West	667
Department of Accounting		671
Department of Economics, Finance, Marketing, and Quantitative Business Analysis		675
Department of Management		676
University College	All	132
Academic Success at the University		133
School of Extended Education		134
School of Interdisciplinary Studies		139
University College at the Polytechnic Campus		—
University College at the West Campus		665
Writing Across the Curriculum		133
W. P. Carey School of Business	Tempe	288
Department of Economics		298
Department of Finance		301
Department of Information Systems		303
Department of Management		306
Department of Marketing		309
Department of Supply Chain Management		311
School of Accountancy		297
School of Health Management and Policy		302
Walter Cronkite School of Journalism and Mass Communication	Tempe	491

University Calendar

March 2006

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

April 2006

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23	24	25	26	27	28	29
30						

May 2006

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20	21	22	23	24	25	26
27	28	29	30	31		

June 2006

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18	19	20	21	22	23	24
25	26	27	28	29	30	

July 2006

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16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

August 2006

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

2006

Check the *Summer Sessions Bulletin* for details and to confirm these dates.

Mon., Mar. 20–
Wed., May 31

Registration and drop/add for first five-week session and eight-week session

Mon., Mar. 20–
Thurs., July 6

Registration and drop/add for second five-week session

Tues., May 2

Final tuition payment deadline for all summer sessions (For students who register on or after the deadline, fees are due daily.)

Mon., May 29

Memorial Day holiday

Tues., May 30

Instruction begins for first five-week session and eight-week session

Fri., June 16

Course withdrawal deadline for first five-week session and eight-week session

Mon., July 3

August graduation filing deadline

Fri., June 30

Complete withdrawal deadline for first five-week session

Fri., June 30

First five-week session ends

Wed., July 5

Instruction begins for second five-week session

Fri., July 21

Complete withdrawal deadline for eight-week session

Fri., July 21

Course withdrawal deadline for second five-week session

Fri., July 21

Eight-week session ends

Fri., Aug. 4

Complete withdrawal deadline for second five-week session

Fri., Aug. 4

Second five-week session ends

2006

Fall Semester

Check the fall *Schedule of Classes* for details and to confirm these dates.

Thurs., Mar. 23–
Fri., Mar. 31

Preregistration

Mon., Apr. 17–
Sun., Aug. 27

Drop/add

Wed., Apr. 19–
Sun., Aug. 27

Registration

Tues., Aug. 1

Final tuition payment deadline for fall 2006 (For students who register on or after the deadline, fees are due daily.)

Tues., Aug. 15–
Sat., Aug. 19

Residence halls open (Check-in date varies by community/last name. Refer to the schedule provided by Residential Life.)

Thurs., Aug. 17

New Faculty and Academic Professional Orientation and Reception

Thurs., Aug. 17–
Sun., Aug. 20

ASU Sun Devil 101

Mon., Aug. 21

Instruction begins

Mon., Sept. 4

Classes are excused for Labor Day holiday

Mon., Oct. 16

December graduation filing deadline

Sun., Oct. 29

Course withdrawal deadline

Fri., Nov. 10

Classes are excused for Veterans Day holiday

September 2006

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

October 2006

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15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

November 2006

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			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

December 2006

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					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

January 2007

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	1	2	3	4	5	6
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

February 2007

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				1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

March 2007

S	M	T	W	T	F	S
				1	2	3
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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

Thurs., Nov. 23– Fri., Nov. 24	Classes are excused for Thanksgiving recess
Tues., Dec. 5	Complete withdrawal deadline
Tues., Dec. 5	Instruction ends
Wed., Dec. 6	Reading day
Thurs., Dec. 7– Wed., Dec. 13	Final examinations
Thurs., Dec. 14	Commencement
Fri., Dec. 15	Residence halls close for semester break
Sat., Dec. 16	Midyear recess begins

2006

Winter Session

Call 480/727-9900 to confirm dates for Winter Session.	
Mon., Oct. 2	Winter Session registration begins
Wed., Dec. 27	Winter Session instruction begins
Mon., Jan. 1, 2007	Winter Session classes are excused for New Year's Day holiday
Fri., Jan. 12, 2007	Winter Session instruction ends

2007

Spring Semester

Check the spring <i>Schedule of Classes</i> for details and to confirm these dates.	
Mon., Oct. 23– Tues., Oct. 31, 2006	Preregistration
Mon., Nov. 13, 2006– Sun., Jan. 21, 2007	Drop/add
Wed., Nov. 15, 2006– Sun., Jan. 21, 2007	Registration
Tues., Dec. 12, 2006	Final tuition payment deadline for spring 2007 (For students who register on or after the deadline, fees are due daily.)
Wed., Jan. 10	Residence halls open
Mon., Jan. 15	Classes are excused for Martin Luther King Jr. Day holiday
Tues., Jan. 16	Instruction begins
Sun., Mar. 11– Sun., Mar. 18	Classes are excused for spring recess; semester midpoint
Sun., Mar. 25	Course withdrawal deadline
Fri., Mar. 30	May graduation filing deadline
Tues., May 1	Complete withdrawal deadline
Tues., May 1	Instruction ends
Wed., May 2	Reading day
Thurs., May 3– Wed., May 9	Final examinations
Thurs., May 10	Commencement
Fri., May 11	Residence halls close

2007

Summer Sessions

Check the <i>Summer Sessions Bulletin</i> for details and to confirm these dates.	
Mon., Mar. 19– Wed., May 30	Registration and drop/add for first five-week session and eight-week session
Mon., Mar. 19– Tues., July 3	Registration and drop/add for second five-week session

UNIVERSITY CALENDAR

April 2007

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

May 2007

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

June 2007

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					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

July 2007

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

August 2007

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Tues., May 1	Final tuition payment deadline for all summer sessions (For students who register on or after the deadline, fees are due daily.)
Mon., May 28	Memorial Day holiday
Tues., May 29	Instruction begins for first five-week session and eight-week session
Fri., June 15	Course withdrawal deadline for first five-week session and eight-week session
Fri., June 29	Complete withdrawal deadline for first five-week session
Fri., June 29	First five-week session ends
Mon., July 2	August graduation filing deadline
Mon., July 2	Instruction begins for second five-week session
Wed., July 4	Classes are excused for Independence Day holiday
Fri., July 20	Complete withdrawal deadline for eight-week session
Fri., July 20	Course withdrawal deadline for second five-week session
Fri., July 20	Eight-week session ends
Fri., Aug. 3	Complete withdrawal deadline for second five-week session
Fri., Aug. 3	Second five-week session ends

Frequently Asked Questions

How do I apply to ASU? Complete an application at www.asu.edu/apply. Have all required transcripts and test scores sent directly to

UNDERGRADUATE ADMISSIONS
PO BOX 870112
TEMPE AZ 85287-0112

For more information, see “Undergraduate Admission,” page 66; or call the Polytechnic campus at 480/727-3278, the Downtown Phoenix and Tempe campuses at 480/965-7788, or the West campus at 602/543-8203.

Can I transfer college credit? ASU accepts college-level (not remedial) course credit in which you have earned a grade of “C” (4.00=A) or higher from regionally accredited institutions. It is up to the ASU college or school of your major to determine how transferable courses fulfill degree requirements at ASU. You must be admitted to ASU before an academic advisor can evaluate your transcripts. You may transfer up to 64 credits from a two-year college. While there is no limit to the number of courses that you may transfer from a regionally accredited, four-year institution, you must earn a minimum of 30 semester hours at ASU to receive a degree from ASU.

What if I have a disability or am a veteran? If you have a disability and will be requesting academic accommodations, at the Tempe campus see “Disability Resource Center,” page 282, at the West campus see “Margaret Francis Disability Resource Center (DRC),” page 658; see also “Applicants with Disabilities,” page 73. If you’re a student who is a veteran using GI benefits, see “Veterans Services,” page 66.

How do I get financial aid? In addition to applying for admission, complete the *Free Application for Federal Student Aid (FAFSA)* by the March 1 ASU priority filing date. If you apply after this date, you are considered a late applicant and are less likely to receive some aid types, including grants, Federal Work-Study, and Federal Perkins loans. You may complete an electronic application at www.fafsa.ed.gov or obtain a paper FAFSA from any high school or college in your community, or from the ASU Student Financial Assistance office. See “Student Financial Assistance,” page 66, and “Financial Aid,” page 59.

How do I apply for campus housing? Once you have been admitted, you should apply for campus housing. The priority deadline of February 1 is important to keep in mind because campus housing is not guaranteed. For more information, at the Tempe campus see “Residential Life,” page 279, call 480/965-3515, or access the Residential Life Web site at www.asu.edu/studentaffairs/reslife. For the West campus, see “West Campus Housing,” page 662, call 602/543-CASA, or access the Web site at www.west.asu.edu/lascasas.

Where do I get information about meal plans? For more information, call 480/965-3464, or access the Campus Dining Web site at www.asucampusdining.com.

How do I sign up for orientation? Students are expected to complete orientation. The program provides answers to your questions about class registration, student IDs, on-campus housing, student activities, and more. Learn more and register at www.asu.edu/admissions/orientation. Tempe transfer students should complete orientation online at www.asu.edu/admissions/transferorientation.

How do I get an ID, and what about parking? See “Proof of Identification,” page 81, about obtaining an ASU student ID card. If you are planning to park at any of the ASU campuses, you must purchase a parking decal. See “Parking Decals,” page 54. Polytechnic campus students may obtain student ID cards in the Union and parking decals in the Student Affairs Complex, Bldg. 350.

What about placement examinations and university testing requirements? See “Placement Examinations,” page 79, and “University Testing Requirements,” page 75.

Before I register for classes, how do I get an advisor? Call the college of your major to schedule an appointment with an academic advisor. See “Academic Advising,” page 79. Access ASU’s Academic Advising Directory at uc.asu.edu/advising/directory.

When and how do I register? See the *Schedule of Classes* for registration procedures and dates, or access registration information online at www.asu.edu/registrar. Remember that you must first provide proof of measles immunity to the Student Health and Wellness Center before you can register for classes. See “Immunization Requirements,” page 74.

Once I am registered, how can I ensure my success at ASU? Consider enrolling in UNI 100. See “University College,” page 132.

What’s left to do now that the business is taken care of? Become involved by getting to know professors, joining student organizations, and taking advantage of the many cultural, recreational, and social opportunities. For more information about the Polytechnic campus, see “Polytechnic Campus Student Services,” page 204; for Tempe campus, see “Tempe Campus Student Services,” page 279; for the West campus, see “West Campus and Student Services,” page 657. Investigate the challenges and advantages of the Barrett Honors College. See “The Barrett Honors College,” page 145.

Academic Definitions

Academic Renewal. Under certain circumstances an undergraduate who has been readmitted to the university after an absence of at least five years may have the former record treated in the same manner as transfer credits. See “Academic Renewal,” page 81.

Advanced Placement. Students who have taken an advanced placement course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an Advanced Placement Examination of the CEEB may receive credit. See “Advanced Placement,” page 74.

AIECP. The American English and Culture Program features an intensive course of study designed for adult international students who desire to become proficient in English as a second language. See “American English and Culture Program,” page 73.

Audit Enrollment. A student who audits a course pays tuition and attends regularly scheduled class sessions but earns no credit. See “Audit Enrollment,” page 83.

Buckley Amendment. See “Family Educational Rights and Privacy Act” in this section and “Student Records,” page 87.

CLEP. As part of the College-Level Examination Program (CLEP), students who have taken a College-Level Examination of the College Entrance Examination Board may receive credit. See “College-Level Examination Program (CLEP),” page 75.

Complete Withdrawal. Students may withdraw from all of their classes and receive a grade of “W” in each course through the semester transaction deadline.

Comprehensive Exam. A comprehensive examination is intended to permit a student to establish academic credit in a field in which the student has gained experience or competence equivalent to an established university course. See “Comprehensive Examinations,” page 75.

Concentration. A concentration is a formalized selection of courses within a major.

Cooperative Education. Cooperative Education is any educational program that requires alternating classroom and work experience in government or industry. The work experience exists for its educational value. See “Cooperative Programs,” page 82.

Corequisite. A requirement to be met *while* taking one course, such as taking another particular course, is a corequisite. See also “Prerequisite” in this section.

Course Prefix. A course prefix is a three-letter designation assigned to a group of courses. The “Course Prefixes” table, page 7, provides a comprehensive list. See also “Cross-Listing” in this section.

Course Withdrawal. During the second week through the 10th week of a fall or spring semester, or the third day through the third week of a summer session, or until the midpoint of the term for winter and flexibly scheduled sessions, a student may withdraw from any course with a mark of “W.” See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the withdrawal period.

Credit Enrollment. One semester hour represents a minimum of one 50-minute class exercise per week per semester. A minimum of 120 semester hours is required for graduation with a baccalaureate degree. To obtain credit, a student must be properly registered and pay fees for the course.

Cross-Listing. One course may have more than one course prefix and may be offered by more than one instruction unit. Some units may require students to enroll in a course under a certain prefix to receive credit properly. Catalog course descriptions indicate courses that are cross-listed.

Cum Laude. An undergraduate student with a minimum of 50 or 56 semester hours of course work at ASU (depending on the campus) and a cumulative GPA of 3.40 to 3.59 graduates *cum laude*. See “Graduation with Academic Recognition,” page 92. See also “Magna Cum Laude” and “Summa Cum Laude” in this section.

Declaration of Graduation. The Declaration of Graduation uses the Degree Audit Reporting System (DARS). DARS is an automated process that matches courses a student has completed with the requirements of a particular academic degree program, producing a report that shows the student which requirements are satisfied and which remain to be fulfilled. See “Declaration of Graduation,” page 91.

Drop/Add. Drop/add is a process in which a student who has registered for courses for a semester or summer session may drop or add courses through the first week of classes in a semester or the first two days of a summer session. See “Drop/Add,” page 84.

Family Educational Rights and Privacy Act. The federal Family Educational Rights and Privacy Act of 1974, also known as FERPA or the Buckley Amendment, sets forth the requirements governing the protection of the privacy of the education records of students who are or have been in attendance at ASU. See “Student Records,” page 87.

Freshman. A student who has earned 24 or fewer semester hours is a freshman.

General Studies Requirement. This is a university requirement of all undergraduates. See “Meeting the General Studies Requirement,” page 93.

GPA. The ASU grade point average (GPA) is obtained by dividing the total number of ASU honor points earned by the number of ASU semester hours graded. Grade point

averages are rounded to the nearest hundredth of a grade point. See “Grade Point Average,” page 85.

Grade Points. For the purpose of computing the GPA, grade points are assigned to each of the grades for each semester hour. For example, three points are assigned for a “B.” See “Grades and Marks,” page 83.

Graduate Catalog. The *Graduate Catalog* describes the procedures and requirements for enrollment in the Division of Graduate Studies. See “Division of Graduate Studies,” page 150.

Graduate-Level Courses. Courses numbered from 500 to 799 are designed for graduate students. See “Graduate-Level Courses,” page 62.

Incomplete. A mark of “I” (incomplete) is given by the instructor only when a student who is otherwise doing acceptable work is unable to complete a course because of illness or other conditions beyond the student’s control. See “Incomplete,” page 83.

International Baccalaureate. Students who have taken a higher-level examination through the International Baccalaureate program may receive university credit. See “International Baccalaureate (IB) Diploma/Certificate,” page 75.

Junior. A student who has earned from 56 to 86 semester hours is a junior.

Lower-Division Courses. Courses numbered from 100 to 299 are designed primarily for freshmen and sophomores. See “Lower-Division Courses,” page 62.

Magna Cum Laude. A student with a minimum of 56 semester hours of course work at ASU and a cumulative GPA of 3.60 to 3.79 graduates *magna cum laude*. See “Graduation with Academic Recognition,” page 92. See also “Cum Laude” and “Summa Cum Laude” in this section.

Major. A major is a formalized group of courses contained within the program of study. See “ASU Baccalaureate Degrees,” page 13, and “ASU Graduate Degrees,” page 163.

Minor. A minor is a formalized group of courses contained within the program of study available from some instruction units. See “Minors,” page 126.

Omnibus Course. An omnibus course is offered on an experimental or tutorial basis when the course content is new or periodically changes. See “Omnibus Courses,” page 63.

Pass/Fail Enrollment. A mark of “P” (pass) or “E” (0.00) (fail) may be assigned for this grading option. This grading method may be used at the option of individual colleges and schools within the university. See “Pass/Fail Enrollment,” page 83.

Placement Examination. A proficiency examination is given to waive a course requirement, validate certain transfer credits in professional programs, or determine a student’s ability in a field where competence is an important consideration. See “Placement Examinations,” page 79.

Prerequisite. A requirement to be met *before* registering for one course, such as completing another particular course, is a prerequisite. See also “Corequisite” in this section.

Probation. A student’s college assumes responsibility for enforcing academic standards and may place any student on probation who has failed to maintain good standing. A student on academic probation is required to observe any rules or limitations the college may impose as a condition for retention. See “Probation,” page 87.

Senior. A student who has earned 87 or more semester hours is a senior.

Sophomore. A student who has earned from 25 to 55 semester hours is a sophomore.

Summa Cum Laude. A student with a minimum of 56 semester hours of course work at ASU and a cumulative GPA of 3.80–4.00 graduates *summa cum laude*. See “Graduation with Academic Recognition,” page 92. See also “Cum Laude” and “Magna Cum Laude” in this section.

TOEFL. The Test of English as a Foreign Language (TOEFL) is taken by students whose native language is not English. See “TOEFL,” page 73, and “AECF,” in this section.

Transcript. An official transcript is a copy of the student’s permanent academic record that lists in chronological order all courses taken at ASU. The official transcript includes all grades received, is signed and dated by the registrar, and displays the seal of the university. An unofficial transcript is an uncertified copy of the academic record. Unofficial transcripts include all information shown on the official transcript, plus information concerning changes, additions, etc., to the record. See “Transcripts,” page 86.

Upper-Division Courses. Courses numbered from 300 to 499 are designed primarily for juniors and seniors. See “Upper-Division Courses,” page 62.

General Information

Equal Opportunity and Affirmative Action	28
Intergroup Relations Center	29
History of Arizona State University	29
University Campuses and Sites	31
University Libraries and Collections	33
Performing and Fine Arts Facilities	34
Computing Facilities and Services	36
Computing Policies	37
Alumni Association	37
Program Assessment and the Office of University Evaluation	37
Learning and Teaching Excellence	38

Arizona State University has emerged as a leading national and international research and teaching institution. Located in the Phoenix metropolitan area, this rapidly growing, multicampus public research university offers programs from the baccalaureate through the doctorate for approximately 58,156 full-time and part-time students through ASU at the Tempe campus; the West campus in northwest Phoenix; a major educational center in downtown Phoenix; the Polytechnic campus, located at the Williams campus (formerly Williams Air Force Base) in southeast Mesa; and other instructional, research, and public service sites throughout Maricopa County. See the "Fall 2004 Enrollment" table below.

Fall 2004 Enrollment

Type	Students
Total	58,156
Polytechnic campus	3,983
Tempe campus	49,171
West campus	7,734
National Merit Scholars (incoming freshmen)	162

MISSION

Arizona State University's goal is to become a world-class university in a multicampus setting. Its mission is to provide outstanding programs in instruction, research, and creative activity, to promote and support economic development, and to provide service appropriate for the nation, the state of Arizona, and the state's major metropolitan area. To fulfill its mission, ASU places special emphasis on the core disciplines and offers a full range of degree programs—baccalaureate through doctorate, recognizing that it must offer quality programs at all degree levels in a broad range of fundamental fields of inquiry. ASU will continue to dedicate itself to superior instruction; to excellent student performance; to original research, creative endeavor, and scholarly achievement; and to outstanding public service and economic development activities. As a result of this dedication, ASU was named to Research Extensive (formerly Research I) status in 1994, recognizing ASU as a premier research institution.

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ORGANIZATION

Arizona State University is part of a university system governed by the Arizona Board of Regents, a body with perpetual succession under the constitution and laws of Arizona. The board consists of eight citizens appointed by the governor of the state for terms of eight years, and two students; the elected governor and state superintendent of public instruction are members ex officio.

The regents select and appoint the president of the university, who is the liaison between the Arizona Board of Regents and the institution. The president is aided in the administrative work of the institution by the provosts, vice presidents, deans, directors, department chairs, faculty, and other officers. Refer to "Tempe Campus," page 850.

The academic units develop and implement the teaching, research, and service programs of the university, aided by the university libraries, museums, and other services.

The faculty and students of the university play an important role in educational policy, with an Academic Senate, joint university committees and boards, and the Associated Students serving the needs of a large institution.

ACADEMIC ACCREDITATION AND AFFILIATION

See "Accreditation and Affiliation," page 855.

EQUAL OPPORTUNITY AND AFFIRMATIVE ACTION

It is the policy of ASU to provide equal opportunity through affirmative action in employment and educational programs and activities. Discrimination is prohibited on the basis of race, color, religion, national origin, citizenship, sex, gender identity, sexual orientation, age, disability, special disabled veteran, other protected veteran, or Vietnam-era veteran status. Equal employment opportunity includes but is not limited to recruitment, hiring, promotion, termination, compensation, benefits, transfers, university-sponsored training, education, tuition assistance, and social and recreational programs. The director of Equal Opportunity/Affirmative Action is the Title IX coordinator.

ASU is committed to taking affirmative action in increasing opportunities at all levels of employment and to increasing participation in programs and activities by all faculty, staff, and students. Affirmative action is directed toward

minority persons, women, special disabled veterans, other protected veterans, Vietnam-era veterans, and persons with disabilities.

University Policy Prohibiting Discriminatory Harassment

Harassment Prohibited. Subject to the limiting provisions of “Freedom of Speech and Academic Freedom” specified below, it is a violation of university policy for any university employee or student to subject any person to harassment on university property or at a university-sponsored activity.

Harassment Defined. Actions constitute harassment if (1) they substantially interfere with another’s educational or employment opportunities, peaceful enjoyment of residence, or physical security, and (2) they are taken with a general intent to engage in the actions and with the knowledge that the actions are likely to substantially interfere with a protected interest identified above. Such intent and knowledge may be inferred from all the circumstances.

Freedom of Speech and Academic Freedom. Neither this nor any other university policy is violated by actions that amount to expression protected by the state or federal constitutions or by related principles of academic freedom. This limitation is further described in the ASU First Amendment Guidelines, the current version of which supplements this policy and is available in the Office of General Counsel.

Relationship to the Work of the Campus Environment Team. If harassment is discriminatory, it falls within the education, monitoring, reporting, and referral functions of the Campus Environment Team. Harassment is discriminatory if taken with the purpose or effect of differentiating on the basis of another person’s race, sex, gender identity, color, national origin, religion, age, sexual orientation, disability, or Vietnam-era veteran status.

Student Antiretaliation Statement

Students have the right to be free from retaliation. Threats or other forms of intimidation or retribution against a student who files a complaint or grievance, requests an administrative remedy, participates in an investigation, appears as a witness at an administrative hearing, or opposes an unlawful act, discriminatory practice or policy, are prohibited. Individuals making such threats are subject to university disciplinary procedures. Students with complaints of retaliation should utilize the procedures available under the *Arizona Board of Regents Student Code of Conduct*, the Graduate Student Grievance Procedure, the Student Employee Grievance Procedure, the Sexual Harassment Policy, non-discrimination policies, or other available administrative procedures as appropriate. For assistance with procedures, students should contact the dean of the particular college if the circumstances relate to a course or academic evaluation, or the dean of students for all other circumstances.

INTERGROUP RELATIONS CENTER

The first-of-its-kind, student-founded Intergroup Relations Center (IRC) enhances the university’s primary directives of teaching and learning through the application of social justice approaches to diversity, intergroup relations

programming, and scholarship in partnership with campus and external communities.

Through structured interaction programs for faculty, staff, and students—including intergroup dialogues, retreats, institutes, and educational and training workshops—the center promotes diversity as one of the university’s greatest assets. The educational work of the center encompasses race, gender identity, age, ethnicity, sexual orientation, disability status, nationality, adult re-entry, and other salient social identities found at ASU.

The center offers student programs that complement courses. For example, the Voices of Discovery intergroup dialogue program brings together small groups of students from different backgrounds for honest, reflective dialogue guided by trained facilitators. Additional programs include weekend retreats on diversity in the professions and on service leadership, and research and practicum internships on diversity and social justice issues.

For faculty and staff, the center offers initiatives addressing issues of diversity in the workplace and the classroom. These include Faculty Cross-Talks which connect faculty, instructors, and researchers across disciplines in developing research projects, and the Diversity Summit Series which provides opportunities to talk and work with nationally and internationally recognized scholars, master teachers, and policy experts.

IRC participates in and offers involvement opportunities with national research. These include program and publication initiatives on intergroup dialogues, anti-bias education, women of color in academia, and diverse democracy outcomes.

For more information regarding diversity resources and ways to get involved, visit the Intergroup Relations Center in SSV 278, call 480/965-1574, or access the IRC Web site at www.asu.edu/provost/intergroup.

HISTORY OF ARIZONA STATE UNIVERSITY

On February 26, 1885, House Bill 164, “An Act to Establish a Normal School in the Territory of Arizona,” was introduced in the 13th Legislative Assembly of Arizona Territory by John Samuel Armstrong. The bill, strongly supported by Charles Trumbull Hayden of Tempe, passed the House on March 6 and the Council on March 11 and was signed by Governor F.A. Tritle on March 12, 1885, thereby founding the institution known today as Arizona State University. Under the supervision of Principal Hiram Bradford Farmer, instruction was instituted on February 8, 1886, when 33 students met in a single room on land donated by George and Martha Wilson of Tempe.

The institution began with the broad obligation to provide “instruction of persons... in the art of teaching and in all the various branches that pertain to good common school education; also, to give instruction in the mechanical arts and in husbandry and agricultural chemistry, the fundamental law of the United States, and in what regards the rights and duties of citizens.”

With the growth of the state, especially the surrounding Phoenix metropolitan area, the school has carried forward this charter, accompanied by successive changes in scope, name, and governance.

GENERAL INFORMATION

The Early Years. For the first 14 years, the school was governed by six principals. At the turn of the century and with another new name, Normal School of Arizona, President Arthur John Matthews brought a 30-year tenure of progress to the school.

He assisted in changing the school to an all-college student status; the Normal School had enlisted high school students who had no other secondary educational facilities in Arizona. He embarked on a building schedule that included the state's first dormitories. Of the 18 buildings constructed while Matthews was president, six are still in use. His legacy of an "evergreen campus," with the importing of many shrubs and trees and the planting of Palm Walk, continues to this day; the Tempe campus is a nationally recognized arboretum.

Matthews also saw to it that the Normal School was accredited outside the state. His service on national education organization boards was conducive to this recognition. The school remained a teacher's college in fact and theory during Matthews' tenure, although the struggle to attain status as a university was ongoing.

An extraordinary event occurred March 20, 1911, when former President Theodore Roosevelt visited the Tempe school and spoke from the steps of Old Main. He had dedicated the Roosevelt Dam the day before and was impressed with Arizona. He noted that construction of the dam would benefit central Arizona's growth and that of the Normal School. It would be another year before the territory became a state.

During the Great Depression, Ralph W. Swetman was hired as president for a three-year term. This was a time of uncertainty for educational institutions. Although enrollment increased due to the depression, many faculty were terminated and faculty salaries were cut. The North Central Association became the accrediting agency for Arizona State Teachers College.

The Gammage Years. In 1933, Grady Gammage, then president of Arizona State Teachers College at Flagstaff, became president of Arizona State Teachers College at Tempe, a tenure that would last for nearly 28 years.

The Graduate Division was created in 1937, and the first master's program was established the same year.

On March 8, 1945, the three state institutions of higher learning came under the authority of one Arizona Board of Regents, which oversees ASU today.

The phenomenal growth of the college began after the end of World War II. Dr. Gammage had foreseen that the G.I. Bill of Rights would flood campuses everywhere with returning veterans. Many of the veterans who had received military training in Arizona had fallen in love with the state and vowed to return after the war. The numbers within one year were staggering: in the fall semester of 1945, 553 students were enrolled; over the weekend semester break in January 1946, enrollment increased 110 percent to 1,163 students. Successive semesters saw continuing increased enrollment.

Like his predecessor, Dr. Gammage oversaw the construction of a number of buildings. His greatest dream, that of a great auditorium, came to fruition after his death. He laid the groundwork for it with Frank Lloyd Wright, who

designed what is now the university's hallmark building, Grady Gammage Memorial Auditorium, built in 1964.

Years of Growth and Stature. During the 1960s, with the presidency of Dr. G. Homer Durham, Arizona State University began its academic rise with the establishment of several new colleges (the College of Fine Arts, the College of Law, the College of Nursing, and the School of Social Work) and the reorganization of what became the College of Liberal Arts and Sciences and the College of Engineering and Applied Sciences. Perhaps most important, the university gained the authority to award the Doctor of Philosophy and other doctoral degrees.

The next three presidents—Harry K. Newburn, 1969–71, John W. Schwada, 1971–81, and J. Russell Nelson, 1981–89—and Interim President Richard Peck, 1989, led the university to increased academic stature, expansion of the campuses, and rising enrollment.

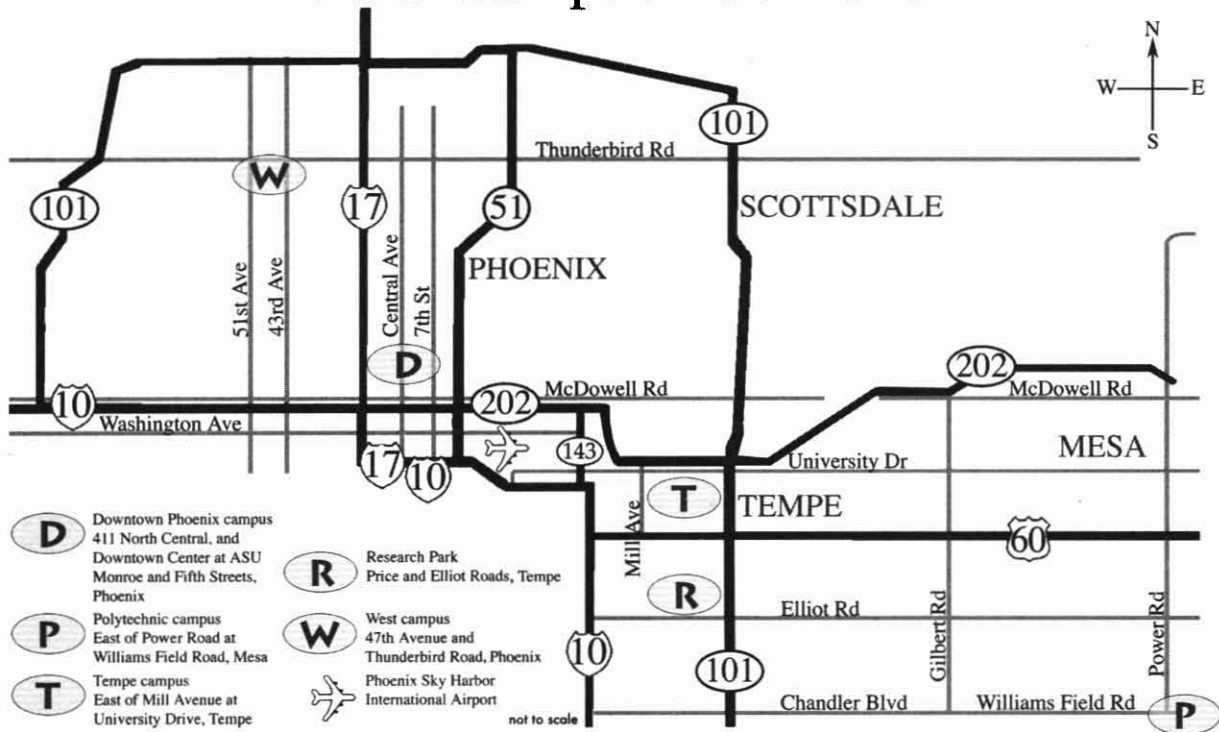
Under the leadership of Dr. Lattie F. Coor, from 1990 to June 2002, ASU grew to serve the Valley of the Sun through multiple campuses and extended education sites. His commitment to diversity, quality in undergraduate education, research, and economic development underscored the university's significant gains in each of these areas over his 12-year tenure. Part of Dr. Coor's legacy to the university was a successful fund-raising campaign. Through private donations, primarily from the local community, more than \$500 million was invested in targeted areas that significantly impact the future of ASU. Among the campaign's achievements were the naming and endowing of the Barrett Honors College, the Katherine K. Herberger College of Fine Arts, and the Morrison School of Agribusiness and Resource Management at the Polytechnic campus; the creation of many new endowed faculty positions; and hundreds of new scholarships and fellowships.

A New Vision. ASU entered a new era on July 1, 2002, when Dr. Michael M. Crow joined the university as its 16th president. At his inauguration, President Crow highlighted his vision for transforming ASU into a model for the *New American University*—one that is open and inclusive; that embraces its cultural, socioeconomic, and physical setting; and that promotes entrepreneurship, use-inspired research, and global engagement. As the only research university serving the metropolitan Phoenix area, ASU is in a unique position to evolve in lockstep with its region to become one of the premier intellectual institutions in the world.

The university's vision and advancing commitment to enhanced accessibility and quality is evidenced by the admittance of its largest and most accomplished freshman class in fall 2005 and its numerous nationally recognized programs in various fields, including accounting, astrobiology, creative writing, design science, ecology and evolutionary biology, electron microscopy, music, nanotechnology, psychology, solid-state science, and supply chain management.

In addition, ASU continues its most aggressive capital building effort in more than a decade. With the fall 2005 opening of the second phase of the Biodesign Institute at Arizona State University, ASU advances its augmentation of more than 1,000,000 square feet of world-class research infrastructure. Recently completed projects, such as the

ASU Campus Locations



Decision Theater for the New Arizona, and ongoing projects, such as the McAllister Academic Village, further reinforce the university's leading-edge role in shaping higher education in the 21st century.

In addition, the university has undertaken a significant realignment initiative, "One University in Many Places," which applies a college/school-centric model to restructuring across four distinct, full-service campuses Valley-wide, including a new proposed Downtown Phoenix campus.

Research Extensive Status. ASU was named to Research Extensive (formerly Research I) status by the Carnegie Foundation for the Advancement of Teaching in early 1994. Nationally, 88 universities have been granted this status, indicating successful garnering of support for research projects and educating future scientists.

Athletics

The original nickname for the Normal School of Arizona athletic teams was the Owls. Athletics other than Sunday hikes and lawn tennis were not part of the early curriculum.

During President Matthews' tenure, some team competition began. The Tempe Bulldogs saw some interesting and rough competition with the University of Arizona Wildcats. In the 1940s, the college's teams became the Sun Devils.

In 1979, the university joined the Pacific-10 Conference. In 1987, ASU became the first Arizona football team to play in the Rose Bowl, defeating the University of Michigan Wolverines 22-15. ASU made its second appearance in 1997 against Ohio State.

In 2004-2005, ASU finished 11th nationally in the Sports Academy Directors' Cup, which recognizes the top athletic programs in the country. Thirteen teams finished in the top 20 nationally with four teams posting top 10 finishes. Men's and women's cross country both finished seventh; baseball, third; and women's golf, eighth.

UNIVERSITY CAMPUSES AND SITES

ASU comprises the Polytechnic campus, Tempe campus, West campus, Downtown Phoenix campus, the ASU Research Park, and various other entities and facilities. See the "ASU Campus Locations" map, on this page.

Downtown Phoenix. See "Downtown Phoenix Campus," page 173.

Polytechnic. The Polytechnic campus of the university opened in 1996 and serves approximately 5,000 undergraduate and graduate students. Located in the Southeast Valley, the 600-acre campus offers many of the features of a small residential college in a suburban area while providing access to the resources of the Tempe campus and the amenities of the metropolitan Phoenix area.

The Polytechnic campus offers a variety of undergraduate and graduate degrees and certificate programs. Sharing the campus with ASU are two community colleges, an elementary school, a regional airport, a golf course, and several corporate research facilities. A partnership with Chandler-Gilbert Community College provides lower-division general education, general interest, and major prerequisite courses

GENERAL INFORMATION

to Polytechnic campus students and transfers the credits seamlessly to ASU.

Fully mediated classrooms and specialized educational facilities such as the Microelectronics Teaching Factory, the Graphic Information Solutions facility, and the flight program's Altitude Chamber offer unique teaching-learning opportunities.

On-campus housing for married students and families in addition to traditional residence halls for single students are available. The Freshman Year Experience residence halls offer a specialized community that integrates a variety of academic resources into residential life.

A shuttle service provides transportation between the Polytechnic campus and the Tempe campus. The campus, located at Power and Williams Field Roads in Mesa, is easily accessible via major interstate routes. For more information, see "Polytechnic Campus," page 200.

Tempe. The Tempe campus is located near the heart of metropolitan Phoenix in the city of Tempe (population 161,624). Nearby are the municipalities that make up the fast-growing Valley of the Sun: Chandler, Gilbert, Glendale, Mesa, Scottsdale, and other communities.

The Tempe campus comprises more than 700 acres and offers outstanding physical facilities to support the university's educational programs. The campus is characterized by broad pedestrian malls laid out in an easy-to-follow grid plan, spacious lawns, and subtropical landscaping.

West. The West campus, located in northwest Phoenix, is a vital component of ASU. The campus serves nearly 8,000 students, offering a highly personalized, student-centered education. It offers an interdisciplinary education for undergraduates, as well as an array of professional programs grounded in the liberal arts. The West campus offers 32 bachelor's degree programs, nine master's degrees, one doctoral degree, and eight professional certificates.

West campus's colleges and schools are a force in the creation and communication of knowledge through its interdisciplinary teaching, research, and outreach programs. West campus faculty are active scholars engaged in a wide variety of research to enhance the community, build new knowledge, and expand the frontiers of science. Research activities are diverse, including quality-of-life issues in the metropolitan region, applied leadership challenges for public and private organizations, and enhanced teacher education. Students benefit from the unique blend of interactive, classroom-based learning communities, community- and field-based learning experiences, and faculty-student research partnerships that address important societal issues.

The West campus commitment to integrated learning extends to Las Casas, an apartment-style, living-learning-based housing facility. Las Casas features a community center, tutoring, and other academic support services.

As a full-service campus, West campus includes a child development center, student health center, bookstore, fitness center, credit union, computer center, food service facilities, theater, and meeting rooms. The campus offers valuable resources for the community, including fine arts and cultural programs, consulting for public and private organizations, workshops, and special events.

The campus is located in northwest Phoenix between 43rd and 51st Avenues on West Thunderbird Road, easily accessed from Interstate 17 and Loop 101.

For more information, see "Fletcher Library at the West Campus," page 33, and "West Campus," page 651.

Downtown Center at ASU. The Downtown Center at ASU is located in central Phoenix at 502 E. Monroe. The center offers a variety of daytime and evening courses and degree programs of interest to employees in private businesses and government agencies and to individuals seeking personal growth and enrichment. These offerings are scheduled at a variety of convenient times and offered through various modes of delivery. Professional continuing education, certificate programs, and lecture series are also available. Access to ASU library information and resources, ASU computing resources, and the Internet is available through the center's computer lab.

ASU Research Park. The mission of the ASU Research Park is to enhance Arizona's high-value research-based economic development and to build the university's capacity to educate and advance knowledge. To this end, the Research Park serves to attract new corporate and regional headquarters and research and development firms to Arizona—headquarters and firms that broaden the base for potential research, interact with graduate students, consult with university faculty, cosponsor seminars on research topics, and provide employment opportunities for ASU graduates.

The Research Park has numerous major tenants, including ASML, Avnet Technology Solutions, Bright Horizons Family Solutions, Edward Jones, Iridium Satellite, the ASU Macro Technology Works, Philips Semiconductors, the U.S. Army's Flexible Display Center, and many others. The Research Park contains more than 1.6 million square feet of developed space on 324 acres.

For more information, access the Web site at researchpark.asu.edu.

Camp Tontozona. Located in the famed Mogollon Rim country near Kohl's Ranch, northeast of Payson, this continuing education facility serves the needs of academic departments conducting teaching and research in mountain terrain. The camp is also available to faculty, staff, graduate students, and alumni for family use. For more information, call 480/965-6851.

Deer Valley Rock Art Center. Deer Valley Rock Art Center, located two miles west of the Black Canyon Freeway on Deer Valley Road, is operated by the ASU Department of Anthropology in consultation with the Hopi, Yavapai, and Gila River Indian tribes. It includes more than 1,500 petroglyphs that cover the eastern slope of Hedgpeth Hills. For more information, call 623/582-8007.

The Arboretum. The Arboretum at Arizona State University is the entire 722-acre Tempe campus. The Arboretum is home to a flourishing oasis of plants from around the world. This virtual outdoor classroom includes more than 300 species of trees and other woody ornamental and herbaceous plants from diverse geographic regions as well as the Sonoran Desert. The Arboretum contains one of the best collections of palms and conifers in the desert Southwest and a

growing collection of native Southwestern plants. The Arboretum's date palm collection has received international recognition by the American Association of Botanical Gardens and Arboreta North American Plant Collection Consortium.

The Arboretum's collection began with Arthur J. Matthews. By the time Matthews' 30-year presidency was finished, nearly 1,500 trees of 57 species and more than 5,700 feet of hedges were planted. One of his most enduring landscape projects was the planting of Mexican Fan Palms along Palm Walk in 1916, which extends from University Drive south to the Student Recreation Complex. Today the Arboretum has expanded its collection to include nearly 4,000 trees of 164 species/varieties.

The Arboretum is open to the public free of charge 365 days a year from dawn to dusk. Walking tours of the various collections and points of interest are designated by signage denoting those areas. Many of the plants in the collection throughout campus are marked with identification plaques.

U.S. Passport Acceptance Office. Located in the International Programs Office, TMPCT 198, this office serves the public Monday through Friday from 9 A.M. to 4 P.M. For more information, call 480/965-0877, or access the Department of State Web site at travel.state.gov.

UNIVERSITY LIBRARIES AND COLLECTIONS

Collectively, the ASU University Libraries is one of the premier research libraries in the country. The nationally ranked collections comprise nearly four million volumes, more than 34,000 periodical and serial subscriptions, thousands of sound recordings and videos, and hundreds of thousands of government documents and maps. ASU is a member of the Association of Research Libraries and the Center for Research Libraries.

The library's Web site (www.asu.edu/lib) serves as a gateway to the library's catalog, hundreds of scholarly databases, and thousands of electronic books and journals. Computing workstations with Internet access are available for use in all library facilities. Wireless networks in each library allow for laptop connectivity to library and campus resources. Borrowing privileges and access to collections vary from unit to unit. Orientation tours are scheduled throughout the year, and library staff are available for consultation on resources and services. In addition to in-house assistance, the ASU University Libraries provides students with 24/7 research assistance through an online "Ask a Librarian" live chat service (www.asu.edu/lib/help).

All the libraries promote academic success by connecting students and faculty to a wide range of information resources available in the library and/or accessible via the Internet.

Libraries at the Tempe Campus

Libraries at the Tempe Campus include the Charles Trumbull Hayden Library, the Architecture and Environmental Design Library, the Music Library, the Daniel E. Noble Science and Engineering Library, and the John J. Ross-William C. Blakley Law Library.

For telephone numbers, see "Libraries," page 904. For more information, access the Web site at www.asu.edu/lib.

Charles Trumbull Hayden Library. The Charles Trumbull Hayden Library houses the largest multidisciplinary collection at ASU. In addition to the open stack areas, separate collections and service areas include Access for Disability Accommodations; Circulation; Periodicals/Videos/Microforms; Government Documents Services; Interlibrary Loan and Document Delivery Services; Library Information, Systems, and Technology; Reference; Reserve; and archival repositories available at the Luhrs Reading Room; see "Archives and Special Collections," page 34. For more information about Hayden Library, access the Web site at www.asu.edu/lib/libraries/hayden.

Architecture and Environmental Design Library.

Located on the first floor of the College of Design/North building, this library's main collection focuses on architecture, design, graphic design, interior design, landscape architecture, and planning. The library's Special Collections and Archives, Architectural Drawings Collection, and Materials Resource Center provide additional opportunities for specialized research. For more information, access the Web site at www.asu.edu/lib/libraries/architecture.

Music Library. A large collection of music scores, recordings, books, music reference materials, and listening facilities for individuals and groups is located on the third floor of the Music Building, West Wing. For more information, access the Web site at www.asu.edu/lib/libraries/music.

Daniel E. Noble Science and Engineering Library. The Daniel E. Noble Science and Engineering Library houses the Map Collection; and books, journals, and microforms in the sciences, engineering, and nursing. For more information, access the Web site at www.asu.edu/lib/libraries/science.

John J. Ross-William C. Blakley Law Library. The John J. Ross-William C. Blakley Law Library is located on McAllister Avenue. For more information, see "Law Building and Law Library," page 496, or access the Web site at www.law.asu.edu/library.

Library at the Polytechnic Campus

Located in the Academic Center Building, this library provides a full range of services to the Polytechnic campus and Chandler-Gilbert Community College. Numerous specialized online research databases and Internet services are available for student and faculty use. As a primarily electronic research library, it is designed to take maximum advantage of new technology. Electronic indexes, catalogs, and journals support study and research in many fields, with an emphasis on the majors offered at the Polytechnic campus. For more information, access the library's Web site at eastlib.poly.asu.edu.

Fletcher Library at the West Campus

Fletcher Library provides resources that support the curricula offered at the West campus. Liaison librarians are assigned to each academic program and provide course-related instruction, class Web pages, research support for faculty, and individual consultations with students. Assistance in the selection of resources and instruction in the use of electronic databases and other library materials is

GENERAL INFORMATION

provided at the Reference Desk. The Library Instruction Program provides an introduction to the research process and to the tools and resources available in an academic discipline, including Internet resources. For library hours and services, access the Web site at library.west.asu.edu, or call 602/543-8501.

University Collections

Arizona Historical Foundation. Under a cooperative agreement with ASU, the Arizona Historical Foundation houses a library of several thousand volumes, manuscript collections, maps, and photographs, and a large collection of audiovisual materials. Housed in the Charles Trumbull Hayden Library, the collection's focus is on the history of Arizona and the Southwest. For more information, access the Web site at www.ahfweb.org.

Archives and Special Collections. ASU Libraries offers eight archival repositories and collections of special published materials: Arizona Collection, University Archives, Special Collections, Child Drama Collection, Benedict Visual Literacy Collection, Labriola National American Data Center, Chicano Research Collection, and the Archives and Special Collections of the Architecture and Environmental Design Library. All of these repositories preserve and make accessible manuscript and archival collections, photographs, videotapes, books, periodicals, and other materials of rarity or special significance. Thousands of archival materials have been digitized and are accessible through the Web sites associated with each repository. The Luhrs Reading Room offers evening and weekend service hours during the fall and spring semesters. For more information, access the Web site at www.asu.edu/lib/archives.

PERFORMING AND FINE ARTS FACILITIES

ASU Art Museum. The ASU Art Museum, a cultural destination in the Phoenix metropolitan area, serves a diverse community of artists and audiences through innovative programming that is both interdisciplinary and educational. Exhibitions, education programs and publications, and events are designed to engage viewers with art that is relevant to their lives. New technologies in art and in approaches to reaching new audiences are eagerly and openly adopted. Areas of particular emphasis in curatorial research, collecting, and exhibiting include: contemporary art, new media, ceramics and other crafts, prints, art from Arizona and the Southwest, and the art of Latin America (modern, contemporary, and folk art).

The ASU Art Museum presents the museum and its functions to the public through open storage of art works and by encouraging viewer interaction with art and members of the museum staff. For an educational perspective, the museum offers a bridge that spans from the viewer to the work of art rather than merely explaining the artwork. Community outreach, a natural function of the overall museum orientation, is pursued in partnership with other cultural institutions and engages particular sectors of the population. It reaches new audiences through nontraditional methods, and often through activities in local schools and neighborhoods.

Founded in 1950 with an important gift of historic paintings by U.S. artists, the museum's collection features over

14,000 objects, including 4,000 prints and 4,000 ceramic artworks.

The Americas Gallery showcases artworks from the museum's collection and emphasizes a global orientation to art produced in the hemisphere. The Americas Gallery is semi-permanently installed in order to offer viewing opportunities of artworks by Gilbert Stuart, Winslow Homer, Georgia O'Keeffe, Thomas Hart Benton, Arthur Dove, Robert Motherwell, Diego Rivera, David Alfaro Siqueiros, and Rufino Tamayo, and an outstanding selection of Mexican modern prints.

Contemporary art holdings include works by Deborah Butterfield, Enrique Chagoya, Sue Coe, Vernon Fisher, Lawrence Gipe, Luis Jimenez, Nam June Paik, and Lorna Simpson. The museum owns the largest collection of 1990s-generation Cuban art outside of the island and a growing collection of Latin American art, including works by Pedro Álvarez, Belkis Ayón, Franklin Cassaro, Kcho (Alexis Levya Machado), Jarbas Lopes, Los Carpinteros, Oscar Oiwa, Sandra Ramos José Angel Toirac, as well as nationally-acclaimed collections of ceramics housed in the Ceramics Research Center (including Robert Arneson, Rudy Autio, Viola Frey, Bernard Leach, Maria Martinez, Ken Price, Lucie Rie, Akio Takamori, Peter Voulkos, and Kurt Weiser) and turned wood objects (Efrain Almeida, David Ellsworth, Todd Hoyer, Mel Kendrick, Mark Lindquist, Ed Moulthrop, Philip Moulthrop, and Bob Stocksdale).

Exhibitions and collections are housed in galleries and study rooms within the international award-winning Nelson Fine Arts Center. The center was designed by Antoine Predock.

Educational programs include artist residencies, interaction with students and visitors, a student docent program, internships, research assistantships, lectures, symposia, in-gallery materials, school and public tours, and a museum travel program. For information on current and future exhibitions and programs at the ASU Art Museum, call 480/965-2785, or access the museum's Web site at asuartmuseum.asu.edu.

Computing Commons Gallery. Located on the ground floor of ASU's high-traffic, centrally located Computing Commons, the gallery extends the arts to a diverse community. This Arts, Media, and Engineering Program (AME) exhibition space has highly adaptable power and lighting options and more than 30 Ethernet connections to facilitate work with a focus on art and technology.

Dance Multimedia Learning Center. The Department of Dance Multimedia Learning Center is a facility designed to promote and encourage the use of media and computer technology in dance education and performance at ASU.

Dance Studio Theatre. The Dance Studio Theatre is a 300-seat facility that serves as the mainstage performance site for three to four professional concerts produced annually by the Department of Dance. It also is the primary venue for student concerts, senior capstone performances, and presentations as well as other special events and activities. The theatre is designed with both interactive and telematic capabilities. The facility uses video-based motion sensing and

enables dancers to interact with sound, lighting, images, and video in performance. High-speed Internet connectivity enables this space to connect with other telematic spaces for dual, multisite, and Web performances.

Digital Arts Ranch. The Digital Arts Ranch is a black box performance space with a flexible infrastructure for multiple types of sensing and audio and visual playback and presentation. Features include 5.1 surround audio, multiple projection surfaces, and reconfigurable audience arrangements. As the principal AME presentation venue, the ranch is also used on a daily basis for realization of research and class work and is home to the AME performance ensemble. The ranch and the Technology Development Studio share shop facilities for design and fabrication in a variety of scales and materials, with a standard suite of tools ranging from wood-working to light machining, with CAD and other 3-D design capabilities.

Galleria. The Galleria features work by ASU faculty, staff, and local artists. Exhibits rotate monthly. Located in downtown Phoenix in the Downtown Center at ASU, the Galleria participates in the monthly and annual art tours—First Friday and Art Detour—sponsored by a local arts group, ArtLink, Inc. For information on exhibitions, call 480/965-3046.

Gallery 100. Located across the street from the Tempe campus Bookstore, Gallery 100 features undergraduate and invitational exhibitions of fine arts.

Gallery of Design. Housed in the College of Design, the Gallery of Design is used to display student work, semester end final critiques, shows exhibiting faculty work, an annual alumni show, and special exhibits. Exhibits tend to focus on architecture, design, and planning and landscape design. It is open Monday through Friday from 8 A.M. to 5 P.M., except when the university is closed.

Paul V. Galvin Playhouse. Built to stage the largest productions of the ASU Mainstage Theatre, the Paul V. Galvin Playhouse is a 496-seat proscenium-stage theatre set at the east end of the Nelson Fine Arts Center. The School of Theatre and Film's annual season of six to eight plays also includes productions in the Lyceum theatre with additional productions in the Prism Theatre and the Nelson Fine Arts Center Studios. The Paul V. Gavin Playhouse also is a main-stage performance venue for three professional concerts produced annually by the Department of Dance.

Grady Gammage Memorial Auditorium. A versatile center for the performing arts designed by Frank Lloyd Wright and named for the late ASU President Grady Gammage, Grady Gammage Memorial Auditorium seats 3,000 and has won wide acclaim for its design and acoustics. In addition to the great hall and related facilities—including the Aeolian-Skinner organ contributed by Hugh W. and Barbara V. Long—the building contains classrooms and workshops for the Katherine K. Herberger College of Fine Arts.

Harry Wood Gallery. Located in the Art Building, the Harry Wood Gallery features graduate, juried, and invitational exhibitions of fine arts.

The Intelligent Stage. The Intelligent Stage is a research environment and performance space at the Arts, Media, and Engineering (AME) Program. It is dedicated to the expansion of studies in interactive performance technologies. Current research includes 3-D motion capturing and 2-D sensing technologies, body sensors for real-time control of digital media, and multisite performances through the use of shared data and streaming digital media. The Intelligent Stage serves as the Interdisciplinary Research Environment for Motion Analysis, which includes faculty from 12 departments across campus.

Katzin Concert Hall. Located in the west wing of the Music Building, the Katzin Concert Hall seats 350 people. Primarily used for solo and chamber music recitals, the hall houses a nine-foot Hamburg concert Steinway piano. The acoustics are enhanced by the maple-paneled stage and the multifaceted walls and ceiling.

Louise Lincoln Kerr Cultural Center. Located in Scottsdale, the Louise Lincoln Kerr Cultural Center offers cultural events, especially in the performing arts, to the community.

Lyceum Theatre. A 162-seat proscenium theatre, the Lyceum Theatre is a venue for ASU Mainstage Theatre productions as well as School of Theatre and Film colloquia and special events.

J. Russell and Bonita Nelson Fine Arts Center. Designed by Albuquerque architect Antoine Predock, the J. Russell and Bonita Nelson Fine Arts Center is a spectacular, 119,000-square-foot, village-like aggregate of buildings that includes five galleries of the ASU Art Museum, the Paul V. Galvin Playhouse, the University Dance Laboratory, seven specialized theatre and dance studios, a video studio, and a variety of scenic outdoor features, including courtyards, fountains, pools, and a 50-by-100-foot projection wall designed for outdoor video.

Northlight Gallery. The Northlight Gallery is dedicated to museum-quality exhibitions of historical and contemporary photography. Located in Matthews Hall, it is open during the academic year.

Organ Hall. Located in the Music Building, the Organ Hall houses the Fritts Organ. This tracker-action pipe organ is designed to capture the qualities of baroque European organs. The hall is designed to complement the organ with a barrel-vaulted ceiling and wooden benches to seat 166 persons.

Prism Theatre. The Prism Theatre is an alternative performance studio devoted to productions presented by the School of Theatre and Film Student Production Board.

Recital Hall. Located on the fifth floor of the Music Building, the Recital Hall is an intimate 125-seat facility that opens onto a rooftop courtyard.

Evelyn K. Smith Music Theatre. As part of the music complex, the Evelyn K. Smith Music Theatre, modeled after the Wagnerian Theatre in Bayreuth, Germany, rises five stories and seats an audience of 500. This theatre is the home of many operatic and musical productions.

GENERAL INFORMATION

Step Gallery. Located in the Tempe Center, the Step Gallery is dedicated to exhibitions by undergraduate students.

Sundome Center for the Performing Arts. As America's largest single-level theatre, the Sundome Center for the Performing Arts in Sun City West has 7,169 seats. The theatre is equipped with sophisticated, state-of-the-art lighting systems, and a single-span roof affords each seat a clear view. As one of Arizona's premier entertainment venues, the Sundome provides an array of top entertainment from Las Vegas-style concerts to classical ballets to celebrity lectures.

Television Station KAET. KAET, Channel 8, is the university's PBS station. Studios of the award-winning station are located in the Stauffer Communication Arts Building. To operate 24 hours a day, KAET employs more than 50 ASU students and interns. To learn more about KAET-TV, access its Web site at www.kaet.asu.edu, or call 480/965-8888.

University Dance Laboratory. A flexible performance space within the Nelson Fine Arts Center, the University Dance Laboratory is designed specifically for experimental dance productions. Along with the Dance Studio Theatre in the Physical Education Building East, the University Dance Laboratory is used by the Department of Dance for experimental performances.

COMPUTING FACILITIES AND SERVICES

Computers are fundamental tools for learning, instruction, and research in every college and department at ASU. The Information Technology (IT) department provides a variety of computing equipment and services available for use by students, faculty, and staff. IT also provides a wide variety of applications, including those required for development, research, and other learning needs. University-wide productivity software and knowledge-sharing resources are accessible through a high-speed campus network and from off campus via the Internet.

A wide range of university information is available online at www.asu.edu, the official ASU Web site. Prospective and current students can find details regarding undergraduate and graduate degree programs, financial assistance, housing, and student activities. The ASU Web site is also the gateway to many online services, including

1. finding and registering for classes;
2. viewing online grade reports;
3. checking e-mail, accessing courses online, utilizing Web-based university services, and reading customizable content via myASU (my.asu.edu);
4. creating personal and course Web pages;
5. viewing campus event calendars;
6. searching the ASU Online Directory;
7. browsing general and graduate catalogs; and
8. obtaining information about ASU athletics.

IT provides several service centers for the ASU academic community.

Computing Sites. The Computing Commons building (CPCOM) provides a "technology hub" that draws together students, faculty, and staff from all disciplines on campus in

an environment conducive to maximum creative interaction. The building and its facilities have drawn national recognition and acclaim as a model for the support of instruction and research in a technology-based environment. The Computing Commons houses a 254-workstation computing site, seven computer classrooms, two instructor-mediated classrooms, two Classroom Support Centers, the Customer Assistance Center, the IT Help Desk, the ASU Computer Store, and the Computing Commons Gallery (see "Computing Commons Gallery," page 34).

There are four additional IT computing sites located on the Tempe campus, available for ASU faculty, staff, and students with an ASURITE UserID. Site configurations and hours of operation vary; current information is available on the Web at www.asu.edu/computingsites.

Digital Media and Instructional Technologies. Digital Media and Instructional Technologies (DMIT) is a development center for the effective use of technology in the design and delivery of instruction. Staffed with faculty, researchers, and students skilled in the areas of system design, graphics, interactive software, Web-based instructional design and delivery, and digital video production, this innovation-driven group enables faculty to maximize the impact of their instruction through the use of technology. From this perspective, DMIT fosters technological innovation by serving as a research and development unit, a production group, and a training facility.

DMIT collaborates with faculty in the coordination of cross-disciplinary research and production projects relating to the integration of technology with education. Through partnerships with ASU faculty and researchers, other educational institutions, as well as public and private community entities, grant-writing teams are assembled to leverage support not otherwise available to a single academic unit or faculty member. Central to effective support services is the establishment of a partnership among the various support units within the university. DMIT coordinates the efforts of these groups—which include the School of Extended Education, University Libraries, the Disability Resource Center for Academic Access and Achievement, and the Office for Research and Sponsored Projects Administration—to provide faculty with a wide array of instruction support services.

DMIT offers consultation and workshops tailored toward enhancing the instructional use of technology by the university teaching community. Sessions range from an introduction to technology in education through advanced and customized approaches for instructors in specific programs.

For more information about DMIT, access the Web site at dmit.asu.edu.

DMIT Instruction Support Lab. The Instruction Support (IS) Lab provides an environment in which faculty may seek and receive one-on-one, guided, or independent support for course development and delivery. Expert staff work closely with faculty to refine and develop their skills and confidence in the design and delivery of instruction through a variety of technology-supported means, both synchronous and asynchronous. Located in CPCOM 213, the IS Lab provides faculty, university professionals, and graduate students with a unique opportunity to integrate technology

with instruction. The IS Lab sponsors workshops and demonstrations and serves as a dynamic clearinghouse of information and referrals for effective integration of technology with education.

For more information, access the Web site at dmit.asu.edu/islab.

Help Desk/Consulting. The IT Help Desk provides ASU students, faculty, and staff with centralized systems information, first-level assistance in resolving computing problems with communication, e-mail, and virus protection software, and security concerns. The IT Help Desk also assists with account related services such as AFS filespace and permissions for Web sites; account access issues, including lost passwords; disk space quotas; and accounts for non-ASURITE services, including mainframe computer access. Most computing services are accessible through the standard ASURITE UserID and password, available online at www.asu.edu/asurite. The Help Desk distributes some site-licensed software, including computer security software. Help documents are available on the Web at www.asu.edu/itdocs.

For more information, access the Web site at www.asu.edu/helpdesk.

Office of Classroom Management. The mission of the Office of Classroom Management (OCM) is to provide outstanding support to the university community through the effective management and design of the university classrooms and computing sites. OCM works to enhance teaching and learning by improving the quality of services and facilities through design, operation, and maintenance of classrooms and sites; classroom scheduling and resource analysis; and development and support of computer networks and multimedia technology.

For more information, access the Web site at www.asu.edu/classrooms.

COMPUTING POLICIES

Computing Policies. Information Technology (IT) and ASU have policies and codes that define responsible use of computers and networks. There are also federal, state, and local laws governing many interactions that occur on the Internet. Users need to be aware of what their responsibilities are and what the process is for adjudicating violations. Users also need to know what rights they have and how they can get help if their rights are violated.

For information and policy documents, access the Web site at www.asu.edu/it/policies.

E-mail Policy. Students are required to obtain an ASU e-mail address once admitted to the university. This e-mail address is the official e-mail address to which the university sends e-mail communications and is recorded in the university's electronic directories. Students may suppress their e-mail address from appearing in these directories by completing forms available at www.asu.edu/registrar/forms/regforms.html. Students are expected to check their e-mail on a frequent and consistent basis to stay current with university-related communications. Faculty who choose to use e-mail in their classes expect students to use their ASU e-mail account for all class e-mail communication.

If an individual wishes to have e-mail redirected from an ASU e-mail account to another e-mail address (e.g., @hotmail.com, @aol.com, or an address on a departmental server), the individual may do so, but at his or her own risk. The university is not responsible for the handling of e-mail by outside vendors or by departmental servers. Having e-mail redirected does not change the individual's responsibility for reading and responding to official communications sent to the ASU e-mail account. Information and warnings about forwarding are available at www.asu.edu/mailbox.

All use of e-mail must be consistent with local, state, and federal law, including the federal Family Educational Rights and Privacy Act of 1974 (FERPA). Visit www.asu.edu/registrar/general/ferpa.html for additional information regarding FERPA. Student ASU e-mail addresses are included in the university's definition of directory information and may be released upon request.

It is a violation of university policies, including the Student Code of Conduct, for any user of official e-mail addresses to impersonate a university office, faculty or staff member, or student. To minimize this risk, some confidential information may be made available only through ASU Interactive (www.asu.edu/interactive) and/or myASU (my.asu.edu), which are both password protected. In these cases, students, faculty, and staff receive e-mail correspondence directing them to the appropriate password protected environment where they can access the confidential information only by supplying their ASURITE UserID and password.

ASU e-mail may be subject to disclosure under the Arizona Public Records law, or pursuant to a lawfully issued court order or subpoena.

ALUMNI ASSOCIATION

Founded in 1894, the Alumni Association is a volunteer-led organization committed to serve and unite alumni for the purpose of advancing the interests of ASU and its alumni. The association, located in MAIN 200, provides a variety of services for ASU alumni, as well as a series of events scheduled around the country.

With more than 250,000 alumni living in the United States and throughout the world, the association plays an important role as the university's primary support organization. Comprising more than 42 groups, the campus, college, club, and chapter organizations (4Cs) of the association provide opportunities for all alumni to stay involved with the part of ASU that interests them most.

Members of the Board of Directors are elected each spring. For more information about the association or its board of directors, call 1-800-ALUMNUS or 480/965-ALUM (2586), or access the Web site at www.asu.edu/alumni.

PROGRAM ASSESSMENT AND THE OFFICE OF UNIVERSITY EVALUATION

The Office of University Evaluation is a research and service facility that focuses on assessing and improving the effectiveness of the university's academic and support programs. The office conducts, coordinates, and manages research designed to measure the degree to which courses,

GENERAL INFORMATION

curricula, and academic programs impart knowledge and skills to students, as well as the quality of support provided to students. The results of these studies, or assessments, are used to enhance both the support provided to students and the intellectual integrity of an ASU education.

In order for the university to assess and improve its programs, periodic measurement of student experiences, perceptions, and intellectual growth must be obtained. When asked by the university, students are expected to participate in one or more evaluative procedures, such as the ASU Report Card. These evaluative procedures are designed to assess the efficacy of the total university experience, including teaching and learning and support programs and are not used in individual grading. The information obtained is one of the means used to improve the quality of the educational experience for this and future generations of ASU students.

For more information, call the office at 480/965-9291, or contact them via e-mail at oue@asu.edu. The Office of University Evaluation's Web site is www.asu.edu/oue.

LEARNING AND TEACHING EXCELLENCE

The Center for Learning and Teaching Excellence is dedicated to enhancing teaching and learning possibilities at ASU. To support this mission, the center provides a variety of training, support, and professional development programs for faculty, academic professionals, graduate students who have teaching responsibilities, and academic departments throughout the university. The center's resources and services specifically focus on advancing improvements in student learning, especially the manner in which teachers promote and foster that learning.

Some of the center's goals are

1. assisting faculty, programs, and departments to assess and develop instructional approaches;
2. providing workshops designed to enhance specific instructional practices for all who teach;
3. serving as a clearinghouse of information about activities, events, resources, and projects that may enhance teaching and learning;
4. developing synergistic relationships with existing campus units;
5. providing instructional assistance to new faculty on campus;
6. encouraging reflective use of instructional technologies; and
7. collaborating with other campus units to secure grant moneys for new course development, exploration of innovative teaching methods, and/or research in effective instruction.

For more information, call 480/965-9401.

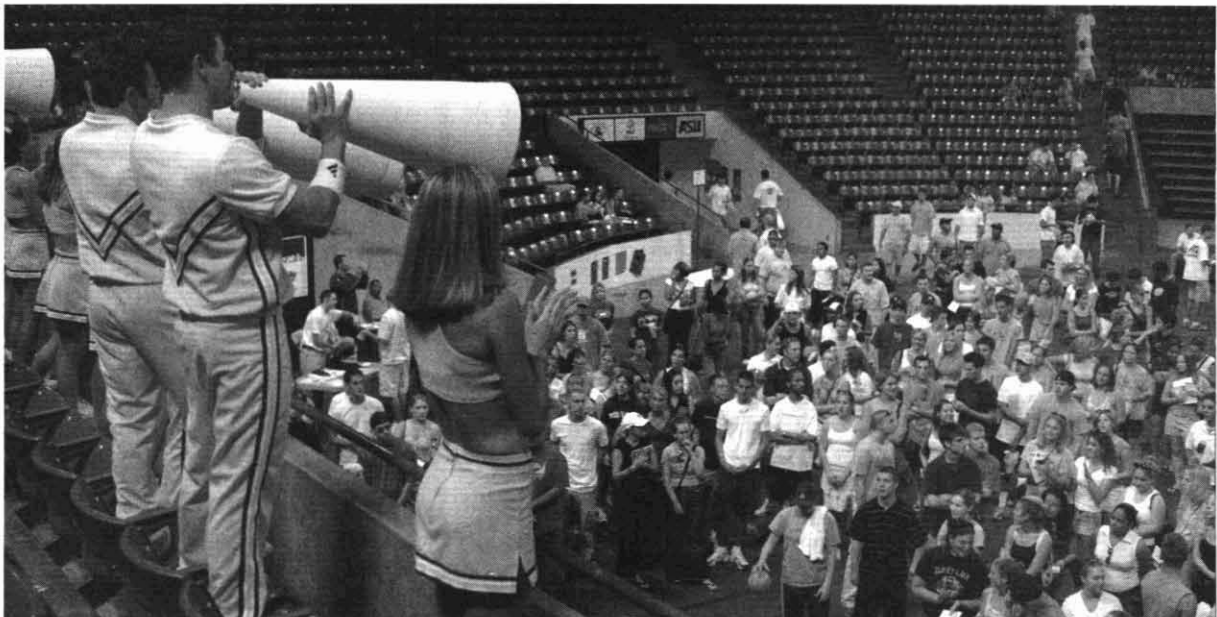
Learning and Teaching Excellence Courses. Sections of LTE 598 are offered in the annual Summer Institute on College Teaching and Winter Institute on College Teaching, designed for faculty and teaching assistants who wish to develop diverse strategies for enhancing their students' learning.

LEARNING AND TEACHING EXCELLENCE (LTE)

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/aad/catalogs on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

RESEARCH CENTERS, INSTITUTES, AND LABORATORIES

See "Research Centers," page 39.



ASU Cheerleaders teach incoming freshmen "Onward to Victory," the ASU fight song, during Spirit Night in Wells Fargo Arena.

Tim Trumble photo

Research Centers

Business, W. P. Carey School of	39
Design, College of	41
East College	41
Education, College of	42
Engineering, Ira A. Fulton School of	42
Fine Arts, The Katherine K. Herberger College of	43
Human Services, College of	43
Law, College of	44
Liberal Arts and Sciences, College of	44
Public Programs, College of	49
Research and Economic Affairs, Vice President for	50

Research centers, institutes, and laboratories serve the university's mission in research. They are overseen by eight of the colleges, the Office of the Vice President for Research and Economic Affairs, the Polytechnic campus provost, and the West campus provost.

Center for Research on Education in Science, Mathematics, Engineering, and Technology

The Center for Research on Education in Science, Mathematics, Engineering, and Technology (CRESMET)—an alliance of the ASU College of Education, the Ira A. Fulton School of Engineering, and the College of Liberal Arts and Sciences—was initiated in 1999, growing out of what was previously the Center for Innovation in Engineering Education. The mission of the center is to bring together individuals, programs, and organizations interested in improving K–20 science, mathematics, engineering, and technology education to research, develop, and assess educational theories, curricula, courses, and administrative policies that impact science, mathematics, engineering, and technology education. The center also encourages and supports wide-scale sharing and implementation of effective approaches to producing a more scientifically and technologically literate populace and more capable science, mathematics, engineering, and technology majors.

Research. CRESMET pursues research and development that demonstrates coherent, consistent, and conceptually powerful mathematics, science, engineering, and technology education from kindergarten through college (K–20).

Partnering. CRESMET supports collaborations across the traditional boundaries of university, community, business, and local education agencies.

Sharing. CRESMET establishes communication avenues for intellectual and material products proven effective in supporting powerful learning in science, mathematics, engineering, and technology fields.

For more information, visit CRESMET in ECG 303, call 480/727-8884, or access the CRESMET Web site at cresmet.asu.edu.

Institute for Studies in the Arts/Arts, Media, and Engineering

The Institute for Studies in the Arts (ISA) is an interdisciplinary research center within the Katherine K. Herberger College of Fine Arts (HCFA) at ASU. Its infrastructure has been developed especially to facilitate interdisciplinary digital arts. In 2003, the ISA initiated the Arts, Media, and Engineering (AME) program, a joint initiative of the Herberger College of Fine Arts and the Ira A. Fulton School of Engineering. The goal of AME is transdisciplinary research and education applied to the integrated development of experiential media. To achieve this complex goal, AME combines knowledge and resources from 14 disciplines across ASU and has established a shared curriculum among nine departments.

ISA facilities include Digital Arts Ranch—a black-box theater with a matrix of video, audio, and movement sensors; controllable projection screens; surround sound capabilities; shops for design and fabrication; a CAD unit; and the Intelligent Stage—a research environment and performance space dedicated to the expansion of studies in interactive performance technologies, including 3-D motion capturing and 2-D sensing technologies; a state-of-the-art Audio Lab and Digital Imaging Lab; the Technology Development Studio—dedicated to the development of software and hardware for experiential media and arts interfaces—and the Computing Commons Gallery, a highly adaptable exhibition space for works with a focus on art and technology.

For more information, call 480/965-9438, or access the Web sites at isa.asu.edu or herbergercollege.asu.edu/ame.

W. P. CAREY SCHOOL OF BUSINESS

Bank One Economic Outlook Center

The Bank One Economic Outlook Center (EOC), established in 1985, specializes in economic forecasts for Arizona and the Western states. The center publishes the *Bank One Arizona Blue Chip Economic Forecast* (monthly), *Greater Phoenix Blue Chip Economic Forecast* (quarterly), *Western Blue Chip Economic Forecast* (10 issues per year), and *Blue Chip Job Growth Update* (monthly), an update of current job growth in the United States. The center also publishes *Mexico Consensus Economic Forecast* (quarterly), which forecasts and provides historical data on the Mexican economy.

RESEARCH CENTERS

For more information, call 480/965-5543, access the EOC Web site at wpcarey.asu.edu/seid/eoc, or write

BANK ONE ECONOMIC OUTLOOK CENTER
PO BOX 874011
TEMPE AZ 85287-4011

Center for the Advancement of Small Business

The Center for the Advancement of Small Business (CASB) is a 21st-century leader in business education, practice, and research providing high-quality, relevant programs, and information services focused on small business since 1994. The center enables students and existing small and medium-size businesses to participate, contribute, and compete in the global economy.

The center provides students from all disciplines with programs and resources that prepare them for leadership positions in small and medium-size businesses, and aids small and medium-size businesses in the continuous improvement of human resources and business practices. CASB also engages in applied research on entrepreneurship and the emerging changes and trends in small business.

For more information, visit CASB in BAC 101, call 480/965-3962, access the CASB Web site at wpcarey.asu.edu/seid/casb, or write

CENTER FOR THE ADVANCEMENT
OF SMALL BUSINESS
PO BOX 874406
TEMPE AZ 85287-4406

Center for Advancing Business Through Information Technology

The Center for Advancing Business through Information Technology (CABIT) focuses on research and educational innovations in technology and business that have been accomplished since 2002. CABIT explores how technological innovations are transforming business operations and provides a forum for interactions between the academic and the practitioner communities. The aim is to leverage the internationally recognized expertise of the ASU faculty, to be in active partnership with industry, and to address current issues related to the technological impact on business.

One of the primary goals of CABIT is to encourage interdisciplinary research within the School of Business. Business faculty members then share their findings with colleagues throughout ASU who have a common interest regarding the impact of technology on business.

The creation of CABIT is an outgrowth of a decade of significant investment in the development of innovative business management programs and the recruitment of technology-savvy faculty. As a result, significant curriculum enhancements have been integrated into the MBA and undergraduate programs. For more information, call 480/965-2280, access the CABIT Web site at wpcarey.asu.edu/seid/cabit, or write

CENTER FOR ADVANCING BUSINESS THROUGH
INFORMATION TECHNOLOGY
PO BOX 873606
TEMPE AZ 85287-3606

CAPS Research

CAPS: Center for Strategic Supply Research was established in November 1986 by a national affiliation agreement between the ASU W. P. Carey School of Business and the Institute for Supply Management. It is the first and only program of its kind in the nation and is located in the ASU Research Park, about eight miles south of the Tempe campus. CAPS Research conducts in-depth research into the problems facing the purchasing profession today and, through its studies, seeks to improve purchasing effectiveness and efficiency and the overall state of purchasing readiness.

For more information, call 480/752-2277, access the Web site at www.capsresearch.org, or write

CAPS RESEARCH
ASU RESEARCH PARK
2055 E CENTENNIAL CIRCLE
PO BOX 22160
TEMPE AZ 85285-2160

Center for Business Research

The Center for Business Research (CBR) has been a source of information on the Arizona and metropolitan Phoenix economies since 1951. A public service research unit of the L. William Seidman Research Institute, the CBR specializes in applied economic and demographic research. The center works cooperatively with other ASU units, particularly the Morrison Institute for Public Policy. In addition, the CBR conducts special research projects of a public service nature under sponsorship of private business and/or government agencies. Recent examples include a study on job quality and work on the Statewide Economic Study for the Arizona Department of Commerce.

For more information, call 480/965-3961, access the CBR Web site at wpcarey.asu.edu/seid/cbr, or write

CENTER FOR BUSINESS RESEARCH
PO BOX 874011
TEMPE AZ 85287-4011

Center for Services Leadership

Since 1985 the Center for Services Leadership (CSL) has been a leading university-based hub devoted to the study of services marketing and management. The CSL addresses how any company can improve internal service processes and use service and customer satisfaction as a competitive advantage. The center encourages firms to share the best ideas and practices for adaptation across industries. Though grounded in marketing, the center's work is cross-functional, integrating concepts and techniques from marketing, operations, human resources, and management.

The center's areas of expertise include customer retention and loyalty; service quality; service delivery; professional services such as healthcare, accounting, and consulting; customer satisfaction; services strategy; service culture; and service recovery. A leader in the business and academic communities, the center's work advances the knowledge base in the field and provides applicable frameworks, concepts, and tools.

The center offers its partner firms topflight executive education in services through the annual "Activating Your

Firm's Service Culture" symposium, the annual "Services Marketing and Management" institute program, and the annual "Information Technology Services Marketing" course and provides customized executive education programs and research projects tailored to and conducted for charter member firms.

For more information, visit the CSL in BAC 440, call 480/965-6201, or write

CENTER FOR SERVICES LEADERSHIP
PO BOX 874106
TEMPE AZ 85287-4106

L. William Seidman Research Institute

The mission of the L. William Seidman Research Institute is to encourage and support applied business research by serving as a public access point to the W. P. Carey School of Business. Specific goals include transferring new knowledge to the public; supporting faculty and student research; encouraging the development of educational programs grounded in business research; and conducting high-quality, applied business research.

The institute encourages research activity by providing research support services to the faculty, staff, and students of the college. These services include facilitating grant preparation and assistance in grant administration. The institute's research centers act as the focal point for involving faculty and students in applied research on important issues identified by the business community.

The institute also serves an important role in the broader educational mission of the W. P. Carey School of Business by disseminating the findings of research conducted by the faculty, students, and research center staff, as well as the results of business research from other sources around the world. This is accomplished through a variety of mechanisms: newsletters and research reports; seminars and conferences; Internet Web pages; media interviews and press releases; and by responding to inquiries from businesses, public officials, and the community. For more information, call 480/965-5362, access the institute's Web site at wpcarey.asu.edu/seid, or write

L. WILLIAM SEIDMAN RESEARCH INSTITUTE
PO BOX 874011
TEMPE AZ 85287-4011

Institute for Manufacturing Enterprise Systems

See "Institute for Manufacturing Enterprise Systems," page 43, for information about this joint venture of the Ira A. Fulton School of Engineering and the W. P. Carey School of Business.

COLLEGE OF DESIGN

Herberger Center for Design Research

The Herberger Center for Design Research (HCDR) mission focuses on promoting and funding design research. To fulfill this mission, the center supports new enterprises, and seeks new partnerships in order to share resources and knowledge, within ASU and with the community at large. HCDR also works toward forming national and international initiatives with other universities and businesses to advance design research.

Among the new enterprises supported by the HCDR is InnovationSpace, a transdisciplinary laboratory where students and faculty work in partnership with inventors, researchers, and businesses to create consumer-driven product concepts that improve society and the environment. InnovationSpace is a joint venture among the College of Design, the Ira A. Fulton School of Engineering, and the W. P. Carey School of Business. For more information, call 480/965-6367, or access the Web site at innovationspace.asu.edu.

For more information about College of Design research centers, call 480/727-0478, or access the Web site at www.asu.edu/caed.

Phoenix Urban Research Lab

The Phoenix Urban Research Laboratory (PURL) is an information-rich environment for researchers, decision makers, industry professionals, and students to debate, collaborate, and seek new solutions to the most pressing design problems facing cities today. Finding options to urban issues through design helps communities make well-informed decisions about the physical form of their cities and can create a thriving, successful urban core that adds exuberance and quality to city life. Staffed by design professionals, PURL projects synthesize real-world situations to offer informed alternatives to actual problems. PURL is a conduit through which applied research, public policy, and scholarly investigation flow to create practical applications and implemented projects. Located in downtown Phoenix and using metropolitan Phoenix as a laboratory, PURL research addresses the heat island effect on cities, transportation and urban planning, and shade structures and water use, among other topics. Not only does PURL serve as a catalyst for progressive urbanism in this city, it is also a model for others to emulate. For more information, call 480/965-3249, or access the PURL Web site at www.asu.edu/caed/purl.

The Community Design Studio (CDS), previously affiliated with the Joint Urban Design Program, is based at PURL. The CDS is a community outreach program that facilitates interaction within the university and with the broader ASU community and promotes design as a way to further dialogues and to address urban issues. The CDS conducts intensive workshops (community-based charrettes) that help neighborhoods, groups, and other stakeholders focus on and respond to critical needs. For more information, call 480/965-1344 or access the Web site at www.asu.edu/caed.

EAST COLLEGE

Arizona Real Estate Center

The Arizona Real Estate Center (AREC), established in 1980, serves a multifunction research and educational role to foster better understanding of the real estate sector of the Arizona economy. Housing, commercial real estate, and construction activity data for Arizona and Maricopa County are collected by the center and are utilized for a variety of ongoing projects, including the calculation of affordability indexes and the computation of housing appreciation figures for the metropolitan Phoenix area.

RESEARCH CENTERS

For more information, call 480/727-1688, access the AREC Web site at www.poly.asu.edu/arec, or write

ARIZONA REAL ESTATE CENTER
7001 E WILLIAMS FIELD ROAD
SUTTON 301C
MESA AZ 85212-6032

Sustainable Technologies, Agribusiness, and Resources Center

The focus of the Sustainable Technologies, Agribusiness, and Resources (STAR) Center is to bring together multidisciplinary researchers whose mission is to study sustainable processes and systems, whether natural or human designed, that will be efficient and less consumptive and will promote conservation of the earth. For more information, call 480/727-1249, or access the STAR Center Web site at www.poly.asu.edu/star.

COLLEGE OF EDUCATION

Center for Indian Education

The Center for Indian Education is an interdisciplinary research and service center established in 1959. It promotes studies in American Indian policy and administration that contribute to scholarship and effective practices in education, professional training, and tribal capacity building. It is structured to foster relations between the university and sovereign tribes and to provide training and technical assistance for community programs. The center publishes the *Journal of American Indian Education* and sponsors workshops and colloquia that bring together scholars and tribal community leaders.

The center provides leadership through a group of American Indian faculty and is organized on the basis of scholarly expertise of the faculty. In addition to College of Education faculty, responsibilities are shared by faculty from the School of Social Work, the School of Justice and Social Inquiry, the College of Liberal Arts and Sciences, and the College of Law. Areas currently studied include administrative leadership, policy analysis, bilingual education, health and welfare policy, justice studies, and program development in professional studies.

For more information, visit the center in ED 402, call 480/965-6292, or access the center's Web site at coe.asu.edu/cie.

CRESMET

See "Center for Research on Education in Science, Mathematics, Engineering, and Technology," page 39.

Education Policy Studies Laboratory

Located within the College of Education, the Education Policy Studies Laboratory (EPSL) conducts and coordinates original research in areas such as student performance standards, assessment, commercialism in schools, curriculum, and language policy issues. EPSL disseminates its analyses and reports to policy makers, educators, media, and the public. It provides high-quality research through three specialized units—the Commercialism in Education Research Unit, the Education Policy Research Unit, and the Language Policy Research Unit, an initiative—the Arizona Education

Policy Initiative; and an online peer-reviewed, academic journal—the Education Policy Analysis Archives.

For more information, visit EDB L1-01, call 480/965-1886, or access the laboratory's Web site at www.asu.edu/educ/epsl.

Southwest Center for Education Equity and Language Diversity

The Southwest Center for Education Equity and Language Diversity conducts, supports, and promotes research, scholarship, and innovative practice in language education designed for minority students in public schools. The center gives priority to scholarship and field-based work relating to educational equity and the systematic usage of heritage languages and cultures. The aim is to integrate these resources into the educational experience of all children and youth.

The center's scope of work is driven by a need to merge several related topics into one articulated conversation: bilitery; promoting the role of public education to strengthen communities; and enabling binational collaboration among educators. The long-term vision is to help develop a new pedagogy tailored to the needs of the bicultural region the center serves. The integration of these themes shapes the scope of work for the center in the following areas:

1. Within the broad scope of educational policy research, the center focuses on scholarly inquiry that contributes to informed and enlightened discourse on language policy for schools and society, especially on the harmonious coexistence of English, the national language, and Spanish, the second most used language in our society.
2. Life in the American Southwest is bicultural and increasingly binational. In this Pan-American context, bilingualism will gain in importance. Equally important will be the collective ability of residents on both sides of the border to work harmoniously in pursuit of a common destiny that will be ever more intertwined. Schools must help children and youth develop skills and predispositions to face this challenge.
3. Mexico and the United States are becoming more interdependent. In this context, Mexican educators should have opportunities to contribute to improving education for Mexican immigrant children in U.S. schools. To enable this, schools must create pilot projects and an infrastructure for collaboration among institutions and individuals on both sides of the U.S.-Mexico border.

For more information, visit the center in ED 440, call 480/965-7134, or access the center's Web site at www.asu.edu/educ/sceed.

IRA A. FULTON SCHOOL OF ENGINEERING

Arts, Media, and Engineering

The Ira A. Fulton School of Engineering has a collaborative relationship with this program. For more information, see "Institute for Studies in the Arts/Arts, Media, and Engineering," page 39.

Biodesign Institute at Arizona State University

This institute has a collaborative relationship with the Ira A. Fulton School of Engineering. For more information, see "Biodesign Institute at Arizona State University," page 50.

Center for Low Power Electronic Research

The Center for Low Power Electronic Research is a collaborative effort of the University of Arizona and ASU to address fundamental, industry-relevant research problems in the design of ultra-low power microelectronic systems. The center is formed under the State/Industry/University Cooperative Research initiative of the National Science Foundation (NSF). The NSF and the State of Arizona recognize that Arizona has the key ingredients to become a leader in this technology, such as the world's leading companies involved in the manufacture of portable computing and communication systems. The center technical areas of focus include

1. basic materials, alternative materials, and their fabrication;
2. device design optimization;
3. design of digital, analog, and hybrid low power circuits; and
4. power-based physical design for single- and multi-chip VLSI systems.

For more information, visit the center in ENGR 115, call 480/965-8654, or access the Engineering Research Services Web site at fulton.asu.edu/fulton/research.

CRESMET

See "Center for Research on Education in Science, Mathematics, Engineering, and Technology," page 39.

Center for Solid State Electronics Research

The Center for Solid State Electronics Research (CSSER) focuses on research in the areas of epitaxial semiconductor crystal growth, device characterization and modeling, defect behavior in semiconductor material characterization, environmentally benign and other novel processing, fine line lithography, surface analysis, and transport. Major programs address semiconductor device modeling, transport theory, optoelectronics, ferroelectrics, semiconductor processing, microwave devices, and ultra-submicron and nano-structured devices. New thrust areas include molecular electronics and MEMS.

For more information, visit CSSER in ENGR 115, call 480/965-3708, or access the CSSER Web site at fulton.asu.edu/fulton/csser.

Institute for Manufacturing Enterprise Systems

The Institute for Manufacturing Enterprise Systems (IMES) is a joint venture of the W. P. Carey School of Business and the Ira A. Fulton School of Engineering, established to enhance manufacturing research and industrial collaboration at the interface between the two colleges. The institute's mission is to establish ASU as an international leader in the creation and dissemination of new knowledge in the area of global manufacturing for the new economy. It particularly focuses on how manufacturing impacts Arizona. Research thrust areas include virtual manufacturing, enterprise systems, knowledge management, and software in the system solution.

For more information, visit the institute in ECA 243, call 480/965-3709, or access the Engineering Research Services Web site at fulton.asu.edu/fulton/research.

Ira A. Fulton Research Institute

The Ira A. Fulton Research Institute serves as an umbrella organization for centers, institutes, and programs that are administered through the Fulton School of Engineering. The institute also houses research programs that are receiving seed funding from the Fulton School or the university and are identified through the Fulton School Research Themes and Clusters.

For information on this new institute, access the Ira A. Fulton School of Engineering Web site at fulton.asu.edu/fulton.

THE KATHERINE K. HERBERGER COLLEGE OF FINE ARTS**Arts, Media, and Engineering**

The Katherine K. Herberger College of Fine Arts has a collaborative relationship with this program. For more information, see "Institute for Studies in the Arts/Arts, Media, and Engineering," page 39.

Ceramics Research Center

The ASU Art Museum's Ceramics Research Center is a national and international destination for the hands-on study and enjoyment of ceramics. It houses the ASU Art Museum's extensive and nationally recognized ceramics collection of more than 4,000 objects. The center, which opened in 2002, is an educational component of the Herberger College of Fine Arts, providing teaching and research capabilities. The collection showcases works that reflect global social, cultural, and historical activities that occur within the relationship between art and society. Its international holdings demonstrate the full range of techniques, aesthetic approaches, and possibilities within the medium. For more information, call 480/727-8173, or access the museum's Web site at asuartmuseum.asu.edu.

COLLEGE OF HUMAN SERVICES**Center for Violence Prevention and Community Safety**

In response to the growing need of Arizona's communities to improve the public's safety and well being, ASU established the Center for Violence Prevention and Community Safety. Setting a course to address all forms of interpersonal violence, the center is forcefully committed to reducing violence and the resulting social and economic costs, while increasing public safety. In today's world, the spectrum of violence is sufficiently broad to attract a variety of high-caliber faculty researchers and students.

In a think-tank atmosphere, where creative processes are nurtured and breakthroughs are shared, the center brings together scholars and practitioners from social, behavioral, and humanistic backgrounds to confront the urgent problems of violence. Together, these researchers and leaders examine sources of crime, youth violence, and violence against women, children, and the elderly. The most significant outcome is the development of new violence prevention and community-safety models that reduce interpersonal

RESEARCH CENTERS

violence and strengthen society's quality of life. As a leading source of research-based knowledge and analysis about violence and its prevention, ASU's Center for Violence Prevention and Community Safety improves community safety through community-based solutions. The mission is to generate, share, and apply quality research and knowledge to create "best practice" standards. The center specifically:

1. evaluates policies and programs;
2. analyzes and evaluates patterns and causes of violence;
3. develops strategies and programs;
4. develops a clearinghouse of research reports and "best practice" models;
5. educates, trains, and provides technical assistance; and
6. facilitates the development of and construction of databases.

Currently, the center is engaged in several local, state, and international research projects aimed at reducing violence.

For more information, call 602/543-6618, or access the center's Web site at westcgi.west.asu.edu/cvpcs.

COLLEGE OF LAW

Center for the Study of Law, Science, and Technology

Located in the College of Law, the Center for the Study of Law, Science, and Technology conducts research, edits *Jurimetrics: The Journal of Law, Science and Technology* in cooperation with the American Bar Association Section on Science and Technology, and sponsors seminars, workshops, and conferences. Through these activities, the center seeks to contribute to the formulation and improvement of law and public policy affecting science and technology and to the wise application of science and technology in the legal system. Current areas of research include communications and telecommunications law, computer-related law, forensic science and statistics, legal issues and biotechnology, law and medicine, law and social science, genomics, privacy, intellectual property, and bioethics.

For more information, visit the center in LAW 229A, or call 480/965-6606.

COLLEGE OF LIBERAL ARTS AND SCIENCES

Arizona Center for Medieval and Renaissance Studies

The Arizona Center for Medieval and Renaissance Studies (ACMRS) is a research unit serving affiliate scholars from ASU, Northern Arizona University, and the University of Arizona. It represents a variety of disciplines, including history, literature, philosophy, religion, language, music, art, and science. ACMRS enriches academic offerings in medieval and renaissance studies by sponsoring one or two visiting professors each year. Graduate research assistantships are also available through the center.

Significant opportunities for the study of the Middle Ages and the Renaissance exist at ASU. Hayden Library has an extensive microfilm collection and many rare books in

medieval and renaissance studies. ACMRS also sponsors a lecture series each semester covering a variety of topics.

Other programs include an annual conference, a public symposium, a summer study abroad program at the University of Cambridge (United Kingdom), and student exchange programs with the University of Copenhagen (Denmark) and the University of Kalmar (Sweden).

Since 1996, ACMRS has published *Medieval and Renaissance Texts and Studies*, a major series of editions, translations, and reference works. In collaboration with the University of Massachusetts at Dartmouth and the University of Kansas, ACMRS sponsors and coedits *Mediterranean Studies*, an annual interdisciplinary journal publishing articles on all aspects of the Mediterranean region. ACMRS also sponsors a book series titled *Arizona Studies in the Middle Ages and the Renaissance*, published by Brepols (Belgium).

ACMRS also partners with the Renaissance Society of America and the University of Toronto in *Iter*, a massive, retrospective, online medieval and renaissance bibliography covering all languages and disciplines, and is the official site of the Medieval Academy of America's online data project offering information on medieval centers, programs, committees, and regional associations in North America.

For more information, visit ACMRS in COOR 4429, call 480/965-5900, or access the ACMRS Web site at www.asu.edu/clas/acmrs.

Cancer Research Institute

Significant advances in the treatment of human cancer and other serious medical problems depend upon scientists well trained in organic chemistry, biochemistry, and biology. The Cancer Research Institute provides graduate students with the specialized training necessary for research in the discovery and development of effective anticancer drugs. Among various activities, laboratory personnel are pursuing a unique program concerned with isolation, structural identification, and synthesis of naturally occurring anticancer agents from marine animals, plants, and marine microorganisms.

For more information, visit the institute in CRI 209, or call 480/965-3351.

Center for Asian Studies

The mission of the Center for Asian Studies is to promote and support the study of Asia at ASU, in the Phoenix metropolitan area, and in the greater community through a wide variety of research, teaching, and outreach activities, including scholarly conferences, curriculum development, public symposia, film series, exhibitions, and teacher training.

The Program for Southeast Asian Studies is administered as a sister program to the Center for Asian Studies. Founded in 1966, the center today is the focal point of one of the most extensive Asian studies programs in the United States. The center encourages ASU faculty research by offering travel grants funded by an endowment from the late A. T. Steele. The center also arranges lectures by ASU graduate students, providing them a forum for sharing their research findings with the ASU community. In addition, the center helps bring guest lecturers to ASU from across the nation and around the world. Past speakers have included Oe Kenzaburo, winner of the 1994 Nobel Prize in Literature, astrophysicist Fang Lizhi of the University of Arizona,

Donald Gregg, former ambassador to Korea and current president of the Korea Society in New York, and John W. Dower, Pulitzer-prize winning historian and professor at MIT.

The center offers undergraduate and graduate students a variety of avenues to incorporate Asian studies into their major area of study and to earn official transcript recognition of an Asian studies specialization. The center's undergraduate certificate program is comprehensive and rigorous, requiring intermediate to advanced language skills in Chinese, Japanese, Hindi/Urdu, Indonesian, Korean, Lao, Thai, or Vietnamese. Undergraduate certificate students also gain area-specific knowledge of Asia by taking courses in at least three disciplines outside of languages and literatures. The center also offers an Asian concentration for BIS majors who must complete one year of language study and fulfill area studies requirements in two disciplines outside of languages and literatures. The center provides advising to students pursuing an Asian Track in the School of Global Studies. The Asian Studies Track degree program provides students with an opportunity to study Asia within a global context and equips them for careers in multinational corporations, international organizations, and the Foreign Service. Currently more than 200 undergraduate courses on China, Japan, Korea, South Asia, and Southeast Asia are taught each year in 12 separate departments in three colleges.

The Graduate Certificate in Asian Studies is offered in three tracks: East Asia (China, Japan, and Korea), South Asia, and Southeast Asia. This certificate is open to any student pursuing an MA or PhD degree in any school or division of the university.

The center and program publish two scholarly *Mono-graph Series*, one specializing in Southeast Asian Studies. The Program for Southeast Asian Studies also publishes the newsletter, *Suvannabhumi*, with an international readership.

The center's Study Abroad Committee works closely with the Tempe campus International Programs Office to advise and assist with study-abroad and exchange programs. Currently, ASU students have opportunities for studying in China, Hong Kong, India, Japan, Korea, Singapore, Taiwan, Thailand, and Vietnam.

The center has 70 affiliated ASU faculty members, all with expertise in Asia as a result of research, teaching, or other professional experiences related to the region, and with appointments in numerous departments and several colleges at ASU. The center maintains a directory of these affiliates, detailing teaching and research interests as well as publications.

For more information, call the center for Asian Studies at 480/965-7184, or access the Web site at www.asu.edu/asian.

For more information about the Program for Southeast Asian Studies, call 480/965-4232, or access the Web site at www.asu.edu/clas/pseas.

Center for Biology and Society

The Center for Biology and Society promotes research on the conceptual foundations of the biosciences and their interactions with society through the exploration of bioethics, biology and law, history and philosophy of science, sociology of science, and environmental history, ethics, and policy. The center brings together dispersed research and

outreach activities relating to the interactions of the life sciences and society. Major sources of research funding come from the Greenwall Foundation and the National Science Foundation; and collaborators include the Flinn Foundation and Mayo Clinic in Scottsdale. Core faculty members hold many ASU and external awards and honors, including designation as regents' professor and other named, endowed professorships as well as MacArthur, Guggenheim, and National Humanities Center fellowships.

The center provides small grants to support independent student projects through the Biology and Society Unusual Student Project Award endowment and sponsors travel programs for students to attend national meetings. Students involved in the Biology and Society Program are among the top students at ASU. Graduates of the program have received Rhodes, Marshall, Truman, Goldwater, Udall, Fulbright, Flinn, and Soros national scholarships. Among the program's alumni are biologists, medical and law school students, a published poet, and others pursuing careers in health and environmental policy, ethics and academe.

Major research and outreach programs include

1. *History and Philosophy of Science*: Conceptual foundations of science; study of knowledge and evidence, including epistemology; decision theory; environmental history.
2. *Bioethics, Environmental Ethics, Values And Society*: Biotechnology and social values, professional conduct of science, intersections with law and justice.
3. *(Bio)policy and Law*: Biopolicy, politics and economics as they impact bioscience; ethical and legal implications of biosciences; social contexts of science, explored through the social sciences.
4. *Communicating Science*: staging illness and theater and science; science and medical journalism.

For more information, visit the center in LSC 284, call 480/965-8927, or access the Web site at sols.asu.edu/biosoc.

Center for Meteorite Studies

The nation's largest university collection of extraterrestrial materials is available for research in the Center for Meteorite Studies. Teaching and research on meteorites, meteorite craters, and related areas of space and planetary science are accomplished through the regular academic units in cooperation with the center.

For more information, visit the center in PS C151, or call 480/965-6511.

Center for Solid State Science

The Center for Solid State Science is a research unit within the College of Liberal Arts and Sciences.

The membership comprises faculty and academic professional researchers and research support personnel, most of whom hold simultaneous appointments in affiliated academic units. The Center for Solid State Science is the ASU focal point for interdisciplinary research on the properties and structure of condensed phases of matter at the interfaces between solid-state chemistry and physics, earth and planetary science, and materials science and engineering. It also supports interdisciplinary approaches to science and engineering educational outreach activities.

RESEARCH CENTERS

The center provides an administrative home for large, multidisciplinary, block-funded research projects. These include the NSF-supported Materials Research Science and Engineering Center (MRSEC) and the Interactive Nano-Visualization for Science and Engineering Education (IN-VSEE) project. To support these activities, members of the center operate modern and sophisticated research facilities and organize regular research colloquia and symposia.

Principal topical areas of research in the center include studies of structure and reactivity of surfaces and interfaces, electronic materials, advanced ceramics and glasses, synthesis of new materials, high-pressure research, development of techniques in high-resolution electron microscopy and micro-structural and chemical analysis, development of visualization techniques at different scales of magnification for science education, and community outreach.

The research facilities of the center include the Center for High Resolution Electron Microscopy (CHREM) and the Goldwater Materials Science Laboratories (GMSL).

CHREM. The center operates several ultra high-resolution and ultra high-vacuum electron microscopes and supports microscopy methods and instrumentation development, including holography, position- and time-resolved nano-spectroscopy, and energy-filtered imaging and diffraction. The center provides high-resolution capability for a large external group from other universities and industry. These facilities include

1. the Materials Facility (MF), which provides a wide range of synthesis and processing capabilities for preparation of specimen materials. MF also provides thermal analysis for study of solid-state reactions and Auger and x-ray photoelectron spectroscopy for analysis of surface compositions and electronic structure of surfaces;
2. the Materials Science Electron Microscopy Laboratory (MSEML), which provides state-of-the-art electron microscopes for analysis of microstructures, including imaging and diffraction, and high spatial resolution chemical analysis using energy dispersive x-ray and electron energy loss micro-spectroscopy;
3. the Ion Beam Analysis of Materials (IBeAM) facility, which provides compositional and structural determination of the surface and near-surface regions (0–2 mm) of solids by ion beam analysis where elemental composition and depth distribution information are needed. Channeling experiments are used to determine crystal perfection and site occupancy;
4. the Secondary Ion Mass Spectrometry (SIMS) laboratory, which provides depth profile and point composition analysis with very high chemical sensitivity, on the order of one part per billion, including isotopic analysis for many materials. SIMS is also used as a chemical microscope, to image elemental distributions on specimen surfaces;
5. the Scanning Probe Microscopy Laboratory (SPM), which provides facilities for nanoscale viewing of solid surfaces using scanning tunneling microscopy (STM), atomic force microscopy (AFM), and related techniques. The SPM laboratory serves as a focus for

undergraduate research training programs and educational and outreach activities;

6. the Facility for High Pressure Research, which provides facilities for synthesis of new materials and for geochemistry/geophysics studies at up to 25 Gpa (250,000 atmospheres) and temperatures greater than 2000° C. These facilities are complemented by diamond anvil cells capable of in situ studies at up to one million atmospheres. This laboratory provides a focus for core research projects within the MRSEC;
7. the Goldwater Materials Visualization Facility (GMVF), which consists of a battery of linked workstations for remote operation of instruments and data collection, capture of images in real time, and advanced computing and simulation of materials. The GMVF is used in research and in undergraduate and graduate education, as well as in educational and community outreach; and
8. other specialized laboratories under development, which include high-resolution X-ray diffraction for thin film characterization, optical spectroscopy, and nuclear magnetic resonance spectroscopy for solid-state studies and research on materials under extreme conditions.

These facilities provide the primary teaching and research resources used by students in the Science and Engineering of Materials interdisciplinary PhD program and the undergraduate option for materials synthesis and processing. The facilities are also used extensively by students in disciplinary programs from affiliated departments.

For more information, visit the center in PS A213, call 480/965-4544, or access the Web site at www.asu.edu/class/csss/csss.

Center for the Study of Early Events in Photosynthesis

The ASU Center for the Study of Early Events in Photosynthesis was established in 1988 as part of a joint grant program of the Department of Energy, the National Science Foundation, and the Department of Agriculture. Since 1995, it has been funded by the Office of the Vice President for Research and Economic Affairs and the College of Liberal Arts and Sciences. The center consists of about 90 students, postdoctoral associates, and research scientists led by 15 faculty members in the Department of Chemistry and Biochemistry and the School of Life Sciences. These research groups share a common goal: understanding the process of photosynthesis, which is responsible for producing all of our food and filling the vast majority of our energy and fiber needs. The impetus for development of the center was the premise that photosynthesis is a complex problem that will only yield to an investigation using a wide variety of approaches and techniques. Thus, the center serves as an infrastructure supporting individual ASU scientists and fostering multidisciplinary cooperative research projects.

The ultimate objective of the research is the elucidation of the basic principles governing the biochemical and biophysical processes of photosynthetic energy storage. This goal is being realized via investigation of the early events of photosynthesis, including light absorption and excitation

transfer in photosynthetic antennas; the mechanism of primary photochemistry in plant and bacterial systems; secondary electron transfer processes; structure and assembly of photosynthetic antennas, reaction centers, and electron transfer proteins; pigment-protein interactions; artificial and biomimetic photosynthetic solar energy conversion systems; and mechanisms of biological electron transfer reactions.

The center is equipped with state-of-the-art instrumentation that allows students to do frontier research in a broad range of disciplines. Equipment includes a variety of pulsed lasers for measurements with time resolution ranging from sub-picoseconds to seconds, a 500 MHz NMR instrument, an EPR spectrometer, a protein x-ray facility, spectrophotometers, fluorometer, a protein sequencer, and an amino acid analyzer.

The center sponsors a weekly Photosynthesis Seminar Series and brings in visiting scientists from around the world to carry out collaborative research. Undergraduate, graduate, and postdoctoral training programs in the Department of Chemistry and Biochemistry and within the Plant Biology curriculum are central components of the center's activities.

For more information, visit the center in PS D207, or call 480/965-1963.

Center for the Study of Religion and Conflict

The Center for the Study of Religion and Conflict promotes research and education on the nature, causes, and consequences of religious conflicts around the world with the goal of contributing imaginative strategies to their containment or resolution. Committed to a transdisciplinary, problem-solving approach, the center sponsors a broad range of programs and activities that stimulate inquiry and enhance knowledge among students, faculty, policy-makers, religious leaders, and the general public, locally, nationally, and internationally.

The center's signature programs include interdisciplinary faculty seminars and working groups, faculty and graduate student colloquia, research conferences and seed grants, undergraduate fellowships, and public lectures. Through these research and education initiatives, the center seeks to enhance empirical knowledge of particular cases, analytical and theoretical insights that contribute to broader, comparative understanding, and normative reflection that leads to wiser, more effective responses and interventions.

Major research interests include the following:

1. *Conflicts at the borders of religion and the secular.* Descriptive, analytic and normative investigations of the role of religion in public life in a global context; constructions of the religious-secular boundary as a focal point for comparative studies of conflicts within and among nation-states.
2. *Religion and conflict: disrupting violence.* Empirical and normative studies of the role of religion in fueling conflict, its potential to disrupt violence, and the applicability of group conflict and conflict resolution research to religious conflict.

For more information, visit the center in ECA 385, or call 480/965-7187, or access the center's Web site at www.asu.edu/csrc.

CRESMET

See "Center for Research on Education in Science, Mathematics, Engineering, and Technology," page 39.

Exercise and Sport Research Institute

The Exercise and Sport Research Institute (ESRI) is an interdisciplinary research unit located in the Department of Kinesiology and serves, in part, as a research facility for the interdisciplinary doctoral program in exercise science. Faculty and graduate students within ESRI investigate a wide range of topics concerning physical activity, including different age cohorts, levels of health, levels of ability and fitness, levels and types of training, and physical and emotional stresses, nutrition, and genetic backgrounds. Where applicable, these aspects are studied using an interdisciplinary approach. ESRI is affiliated with a number of clinical and research institutions in the Phoenix area.

ESRI houses numerous specialized research laboratories. *Biomechanics* applies the laws of mechanics to the study of human movement. Current research examines kinematic and kinetic determinants of locomotion patterns in walking, running, cycling, and swimming; neuromusculoskeletal modeling and computer simulation of locomotion in clinical and sport applications; ergonomics; and mechanisms underlying upper extremity repetitive strain injuries. *Exercise physiology* is the study of physiologic systems (cardiovascular, respiratory, muscular, endocrine, metabolic) under conditions of stress, particularly exercise stress. Both acute exercise responses and chronic adaptations resulting from exercise training are considered in relation to health and performance and are investigated in several specialized labs. The *Exercise Biochemistry Lab* examines subcellular systems involved in the provision and regulation of energy transfer during exercise. The *Exercise Endocrinology Lab* studies interrelationships of exercise and training with stress, hormones, neurotransmitters, and the immune system. Research in the *Motor Control Lab* investigates how movement is regulated and controlled via the nervous system in normal and pathological populations. Special emphases include motor deficits attributed to basal ganglia dysfunction and upper extremity coordination, particularly finger and hand posture, in reaching and prehensile movements. *Motor development* studies how human movement is generated and evolves throughout the lifespan. Current research focuses on learning and development of bimanual coordination. Timing and coordination of perceptual-motor skills are measured in normal developing children, persons with Down syndrome, and adults to investigate cerebral asymmetries and specificity of learning. The *Sport and Exercise Psychology Lab* examines the relationship between psychological constructs and physical activity and the influence of participation in physical activity on psychological phenomena. Current research is designed to examine the influence of physical activity, fitness, and particular sport practices on psychophysiological mechanisms and cognitive functioning; the effect of psychological skills for performance enhancement; motivational aspects of physical activity across the lifespan; and the effects of exercise on mental health.

For more information, visit ESRI in PEBE 110, or call 480/965-8279.

RESEARCH CENTERS

Hispanic Research Center

The Hispanic Research Center (HRC) is a university-wide interdisciplinary unit, dedicated to research and creative activities. Administered through the College of Liberal Arts and Sciences, the HRC performs basic and applied research on a broad range of topics related to Hispanic populations, disseminates research findings to the academic community and the public, engages in creative activities and makes them available generally, and provides public service in areas of importance to Hispanics.

Faculty, staff, and advanced graduate students organize into working groups to develop a broad range of specific projects and lines of inquiry within the general categories of Hispanic entrepreneurship, science and technology, information and data compilation and dissemination, the Hispanic polity, and the arts. Ongoing activities of the HRC, primarily funded by external grants, include the Arizona Hispanic Business Survey, the *Bilingual Review Press*, the Community Art and Research Outreach (CARO), Chicana and Chicano Space: Art Education Web site, Digital Divide Solutions Project, Project 1000, and the Western Alliance to Expand Student Opportunities.

CARO sponsors creative activities and research in collaboration with community-based organizations and ASU faculty.

For more information, visit the HRC in CFS 104, call 480/965-3990, or access the HRC Web site at www.asu.edu/clas/hrc.

Institute for Humanities Research

The Institute for Humanities Research is dedicated to promoting excellence and innovation in the humanities and engaging constituents in exploring the human dimensions of emerging and significant social, cultural, technological, and scientific issues.

The institute strives to create a dynamic environment for interdisciplinary and transdisciplinary research and facilitate collaboration among scholars in the humanities, social sciences, and sciences for the purpose of examining issues that confront individual and collective human experience across time.

The Institute for Humanities Research promotes scholarship and collaboration in the humanities, and with scholars outside the humanities, through four major programs:

1. IHR Competitive Seed Grant Program,
2. IHR Distinguished Lecture Series,
3. IHR Fellows Program, and
4. research workshops.

For more information, call 480/965-3000, or access the Web site at www.asu.edu/clas/ihr.

Institute for Social Science Research

The Institute for Social Science Research (ISSR) provides research development and data support services across the university. It is also the umbrella unit for transdisciplinary research centers that span the university's colleges, schools, and departments.

The institute's mission is

1. to encourage leading-edge thinking and help create innovative approaches to research initiatives;

2. to facilitate scholarship and transdisciplinary collaboration among university departments and schools and between university researchers and external agencies, companies, and nongovernmental organizations;
3. to ensure the success and excellence of the university and its faculty in meeting the research potential of a comprehensive metropolitan research university; and
4. to advance knowledge to better serve the needs of the community and humankind.

For more information, call 480/965-5009, or access the Web site at www.asu.edu/clas/issr.

Institute of Human Origins

The Institute of Human Origins (IHO), founded in 1981 by Donald Johanson, became part of the College of Liberal Arts and Sciences in 1997. IHO is a multidisciplinary research organization dedicated to the recovery and analysis of the fossil evidence for human evolution. IHO's scientists carry out field research at sites in Africa, the Middle East, and Asia. IHO houses the largest collection of *Australopithecus afarensis* casts (including "Lucy," a 3.2 million-year-old human ancestor) in the world as well as an extensive collection of other fossil hominid casts. IHO's library contains more than 3,000 volumes, numerous journals, videotapes, audiotapes, and slides related to human evolution and fossil sites. IHO produces periodic newsletters, offers lecture series, conducts tours and workshops, and supports numerous informal science education outreach projects.

For more information, visit IHO in SS 103, call 480/727-6580, or access the IHO Web site at www.asu.edu/clas/iho.

Joan and David Lincoln Center for Applied Ethics

The Joan and David Lincoln Center for Applied Ethics is a university-wide center for applied ethics that is administratively housed in the College of Liberal Arts and Sciences. Its mission is

1. to develop and coordinate a strong focus on theoretical and applied ethics across intellectual disciplines and professional programs within the university,
2. to support teaching and creative research and programming in ethics, especially as applied to a variety of professional fields and careers,
3. to foster collaborative ethics programming that involves the center and its Lincoln Professors and community organization in addressing major ethical challenges that confront individuals, public policy makers, and local, state, national, and international institutions.

For more information, visit the Center in AG 355, call 480/727-7691, or access the Web site at www.asu.edu/clas/lincolncenter.

Latin American Studies Center

Arizona maintains an ever-growing interest in Latin America that draws upon an extensive experience of historical and geographical ties. The Latin American Studies Center is the focal point for these interests at ASU. Through its program, the center serves the university community and maintains strong ties with various Latin American

organizations in the state and the nation. Principal activities are coordinating Latin American studies at the undergraduate and graduate levels; sponsoring student exchange programs; organizing events featuring Latin American arts and culture, numerous seminars, and research conferences; publishing a wide range of professional materials; and undertaking and facilitating research about the region.

The center administers student exchange programs with the Catholic University of Bolivia and three Mexican universities—the Autonomous University of Guadalajara, the Autonomous University of Nuevo Leon, and the University of Sonora. Each spring several ASU students are selected to attend courses at the Latin American universities while Bolivian and Mexican students attend ASU. The center also has an exchange agreement with the Pontific Catholic University of Ecuador for faculty and students as well as summer programs in Quito, Ecuador, and Ensenada, Mexico.

The center is a member of the American Modern Language Association, Consortium of U.S. Research Programs for Mexico, Consortium for Latin American Studies Association, Pacific Coast Council on Latin American Studies, Rocky Mountain Council for Latin American Studies, Consortium of Latin American Studies Programs, and Conference on Latin American History.

The center directly encourages research, not only through its research conferences, but also through close coordination with the Latin American collection of Hayden Library and networking with Latin American universities.

For more information, visit the center in COOR 4450, or call 480/965-5127.

Russian and East European Studies Center

The ASU Russian and East European Studies Center (REESC) functions within the College of Liberal Arts and Sciences. REESC administers research, training, and outreach programs involving the lands and people of Eastern Europe and Eurasia. More than two dozen ASU faculty from five colleges and University Libraries collaborate in center programming. REESC also works with other postsecondary educational institutions, government agencies, local high schools, and private corporations in coordinating programs of research, study, travel, and exchange relating to Russia, Eastern Europe, and Eurasia. The center is an institutional member of the American Association for the Advancement of Slavic Studies (AAASS). ASU is also a member of the International Research and Exchanges Board (IREX), which administers United States academic exchanges with Russia and Eastern Europe.

The Critical Languages Institute (CLI) offers intensive summer language instruction in the less commonly taught languages of Eastern Europe and Eurasia. Summer practicums and study abroad programs offer students opportunities to take classes and conduct research overseas. REESC/CLI faculty mentor students for competitive national fellowships, including Fulbright and the National Security Education Program.

For more information, call REESC at 480/965-4188 or CLI at 480/965-7706, or access their Web sites at www.asu.edu/clas/reesc and www.asu.edu/clas/reesc/cli.

Virginia G. Piper Center for Creative Writing

The Virginia G. Piper Center for Creative Writing at ASU was created in the fall of 2003. The center's goal is to elevate the university's creative writing program to international prominence while enriching the intellectual and artistic life of Arizona and the entire southwest.

The historic ASU President's House, located at Palm Walk and Tyler Mall on the Tempe campus, serves as the permanent campus home for the center.

Other programs funded by the center include

1. an international writer's exchange program;
2. funding of an endowed chair that will be used to attract high profile, distinguished authors to campus for extended residencies, authors who will work closely with ASU faculty and students; and
3. creation of the Piper Creative Scholars Program, designed to support ASU faculty and others in the pursuit of research, writing, and other creative activities.

For more information, access the center's Web site at www.asu.edu/pipercenter.

COLLEGE OF PUBLIC PROGRAMS

Center for Nonprofit Leadership and Management

The Center for Nonprofit Leadership and Management (CNLM) promotes the understanding of the nonprofit sector in community life and focuses on effective practices that help organizations meet their mission. The center coordinates a nonprofit sector research program, facilitates educational offerings in nonprofit studies, and serves as a convener on contemporary issues. CNLM provides information and selected technical assistance services pertaining to such topical concerns as philanthropy, effective board governance, and social enterprise. The center facilitates relationships among students, faculty, and community organizations across the range of its research and outreach activities. In addition, the center convenes leaders and managers from the nonprofit, business, and government sectors on issues pertinent to building nonprofit capacity in the region. CNLM is the leading nonprofit academic center in the region. It is nationally recognized for its knowledge and tools that support leader and manager effectiveness. The center supports the activities of three complementary nonprofit education programs at ASU; the American Humanics Program (undergraduate certificate), a postbaccalaureate program (graduate certificate program in Nonprofit Leadership and Management), and a professional development education program (through the Nonprofit Management Institute). For more information, call 480/965-0607, or access the Web site at nonprofit.asu.edu.

Center for Urban Inquiry

The mission of the Center for Urban Inquiry (CUI) is threefold: critical social science research, community engagement, and innovative education. The research agenda prioritizes the scrutiny of economic and social privilege and disadvantage. Specific research requests from policymakers, nonprofit and government agencies, and citizen groups are also considered. This includes a rapid response community research initiative established to provide intensive feedback

RESEARCH CENTERS

to community research requests that must be completed within a limited time frame, as well as long-term process and outcome evaluations of programs and policies in the private and public sectors. CUI also facilitates collaborative research efforts among faculty, research professionals, and students. Such research includes an examination of the individual and collective costs of poverty in the Southwest and the design of comprehensive research to explore the extent and nature of racial profiling among agents of social control.

CUI's direct community involvement ranges from the local to the global. This includes support of neighborhood groups advocating for homeowners and renters within the context of urban development and displacement, the creation of a hospital-based community partnership to combat youth violence, and participation in United Nations summits on sustainable development and indigenous peoples' rights. The center serves the university and community through innovative educational endeavors, including a distance-learning college program for incarcerated women, in-depth research training for graduate and undergraduate students, and courses in service learning, community action research, and international urban issues. CUI also serves as the administrative and programmatic home for the needs-based Nina Mason Pulliam Legacy Scholars Program for nontraditional students.

For more information, call 480/965-9216, access the center's Web site at www.asu.edu/copp/urban, or write

CENTER FOR URBAN INQUIRY
ARIZONA STATE UNIVERSITY
PO BOX 874603
TEMPE AZ 85287-4603

Morrison Institute for Public Policy

Morrison Institute for Public Policy conducts research which informs, advises, and assists Arizona's leaders and residents. As part of the School of Public Affairs (College of Public Programs), the institute serves as a bridge between the university and the community. Through a variety of publications and forums, Morrison Institute shares research results with, and provides services to, public officials, private sector leaders, and community members who shape public policy. A nonpartisan advisory board of leading Arizona business people, scholars, public officials, and public policy experts assist the institute with its work. Morrison Institute was established in 1982 through a grant from Marvin and June Morrison of Gilbert, Arizona and is supported by private and public funds and contract research. The institute conducts research on a broad range of topics, including education, urban growth, workforce development, economic development, arts and culture, quality of life, and science and technology.

For more information, call 480/965-4525, access the Morrison Institute's Web site at www.morrisoninstitute.org, or write

MORRISON INSTITUTE FOR PUBLIC POLICY
ARIZONA STATE UNIVERSITY
PO BOX 874405
TEMPE AZ 85287-4405

Southwest Interdisciplinary Research Center

The Southwest Interdisciplinary Research Center (SIRC) conducts multidisciplinary, community-based research on health disparities among the populations of the Southwest, concerning drug abuse, HIV/AIDS, and mental health. Research efforts focus on the needs and strengths of families and youth from diverse communities, and strive to foster a stronger link between practice and research in the social work and service delivery fields. The research center's goal is to develop a comprehensive interdisciplinary center for culturally oriented research on drug abuse and other health outcomes that will strengthen the university's capacity as a leader in the Southwest region, nationally, and internationally.

SIRC strengthens the institutional infrastructure of the School of Social Work, enhances the research capabilities of faculty and community social workers, and draws across many disciplines to create dynamic research partnerships. The center's research affiliates include faculty from nursing, psychology, social work, sociology, and other departments. SIRC is funded through competitive research grants and subcontracts awarded by the National Institute on Drug Abuse, the National Institutes of Health, the Centers for Disease Control and Prevention, and by ASU.

The mission of SIRC is to carry out interdisciplinary research in health disparities with populations of the Southwest, and increase the number and capacity of social work researchers working in the areas of substance abuse, HIV/AIDS, and mental health. The center's multidisciplinary and community-based research in these priority areas focuses on culturally-grounded prevention research, and culturally responsive and resiliency-focused services research.

SIRC studies the strengths, competencies, and other protective factors that buffer against drug use and risk behaviors of families and youth. Research focuses on the diverse cultural communities of the Southwest and the way that drug use, HIV/AIDS, and mental health are connected to ethnic, gender, developmental, geographic, and other social identity variables.

SIRC provides predoctoral applied research education to graduate students from social work, sociology, and other departments. In addition, SIRC provides continuing education and research dissemination activities in association with its community advisory board members and partners.

For more information, call 480/965-4699, access the center's Web site at sirc.asu.edu, or write

SOUTHWEST INTERDISCIPLINARY RESEARCH
CENTER
ARIZONA STATE UNIVERSITY
PO BOX 873711
TEMPE AZ 85287-3711

VICE PRESIDENT FOR RESEARCH AND ECONOMIC AFFAIRS

Biodesign Institute at Arizona State University

The Biodesign Institute at ASU was established to provide an organizational, intellectual, and physical environment for large-scale interdisciplinary research. The institute is focused on improving human health and quality of life, sustaining the environment, and contributing to national

security. To meet these grand challenges, it fuses expertise in diverse disciplines, including biology, engineering, and information technology. As a catalyst for innovation, the institute seeks end-to-end solutions that address complex challenges threatening human health in the 21st century. The ambitious goal is use-inspired, translational research that is adopted rapidly by the private sector for societal benefit and commercial applications.

The Biodesign Institute represents Arizona's largest investment in research infrastructure. The Institute is master-planned as four interconnected buildings with 800,000 square feet of advanced research space. Flexibility is built into every aspect of the facilities, so they can rapidly be adapted to changes in technology. The research programs are clustered into four focus areas of increasing contemporary importance:

1. biological systems,
2. nanoscale systems,
3. cognitive systems, and
4. sustainable systems.

The institute's output is measurable in terms of increased grant funding being brought to the region, the development of highly trained research professionals who are prepared for employment in industry as well as academia, the recruitment of highly-educated newcomers to the community, pioneering discoveries and new technologies that benefit humanity, and generation of new businesses. These important outputs contribute significantly to statewide economic development. The institute is becoming a hub for bioscience research in central Arizona, building collaborative networks among scientists, health care providers, industry, and institutions. The Biodesign Institute is located on the Tempe campus.

For more information, access the institute's Web site at www.biodesign.asu.edu.

Institute for Computing and Information Science and Engineering

The Institute for Computing and Information Science and Engineering (InCISE) fosters interdisciplinary research, education, and entrepreneurship in computing. A collection of basic research activities within the Department of Computer Science and Engineering (CSE) forms the inner core of InCISE, while the activities to which CSE contributes form the outer core of the institute. The three core research groups of InCISE are the Center for Cognitive Ubiquitous Computing, the Intelligent Information Integration core area, and the Information Assurance core area. InCISE also collaborates with five affiliated research groups: the Consortium for Embedded Systems; the Partnership for Research in Spatial Modeling; the Arts, Media and Engineering Program; and the Center for Advancing Business through Information Technology.

In addition, InCISE serves as the focal point for a host of researchers from various disciplines who want to get connected to the computing and information community at ASU. These domains include cognitive sciences, health sciences, social sciences, earth sciences, space sciences, biosciences, disability studies, and linguistics.

For more information, access the institute's Web site at incise.asu.edu.

Global Institute of Sustainability

The newly established Global Institute of Sustainability brings together life, earth, and social scientists, engineers, and government and industry leaders to share knowledge and develop practical solutions to the environmental, economic, and social challenges of sustainable development, especially as it relates to urban areas. The institute also infuses sustainability into the fabric of the university's educational mission and lays the administrative footprint for the future School for Sustainability (which will open in 2007). For more information, access the institute's Web site at ces.asu.edu.

The institute is also home to the Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER) project, one of only two urban sites in the NSF-funded LTER network. The CAP LTER project focuses on an arid-land ecosystem profoundly influenced, even defined, by the presence and activities of humans, and involves more than 50 associated faculty from biology, ecology, engineering, geography, geology, sociology, urban planning, and anthropology. For more information, access the CAP LTER Web site at caplter.asu.edu.

The institute administers an NSF-funded Integrative Graduate Education and Research Training (IGERT) grant to develop a multidisciplinary program in urban ecology. The program's research component engages students in wide-ranging and multidisciplinary investigations into the ecology of cities, with the CAP LTER project providing the research infrastructure. For more information, access the IGERT Web site at ces.asu.edu/igert.

The institute is also home to the Decision Center for a Desert City (DCDC), which analyzes the decision processes used to plan and manage water resources and growth, with the goal of advancing sound science as the basis for managing growth in arid regions. For more information, access the DCDC Web site at dcdc.asu.edu.

The institute also facilitates applied environmental research projects undertaken by the Southwest Center for Environmental Research and Policy (SCERP), a consortium of five U.S. and four Mexican universities. SCERP develops a research agenda for the study of air and water quality, hazardous waste problems, environmental health issues, and growth management questions in the border region. For more information, access the Web site at www.scerp.org.

For more information, visit the institute in TMPCT 151, call 480/965-2975, or access the institute's Web site at sustainability.asu.edu.

Stardust Center for Affordable Homes and the Family

The Stardust Center for Affordable Homes and the Family is a university-wide transdisciplinary center that assists the affordable housing development community of Arizona to produce and manage service-enriched housing in a manner that improves the social stability of neighborhoods, the economic productivity of families, and the educational performance of children, while enhancing the quality of the built and natural environments.

RESEARCH CENTERS

The center provides research, services, and education to increase the quantity and quality of affordable homes produced for Arizona's families. This is accomplished by the center's staff in collaboration with ASU faculty, visiting scholars, expert practitioners, members of the broader community, and contributors to the present system for producing and servicing affordable housing and residents in Arizona. The focus of the center's engagement is the affordable housing system, that is, the public and private individuals and groups who develop and manage affordable homes and communities and who provide services to the families who live in them.

For more information, call the center at 480/727-5456, or access the center's Web site at www.asu.edu/stardust.

Decision Theater at Arizona State University

The Decision Theater (DT) at ASU is a world-class facility for science-based, informed analysis positioned to connect science, community, and practice. The primary mission of the Decision Theater is to serve as a home for policy makers and the community to participate together in a collaborative process using advanced decision-making tools.

DT research focuses on incorporating group facilitation and mediation services with visual documentation tools to create an integrated framework for supporting and studying decision-making processes. Scientists incorporate and integrate complex, multidimensional data from a variety of public sources, such as numeric and spatial data into models and simulations for display in an immersive 3-D environment. Individuals and groups are able to interact with this information in a truly immersive manner, creating opportu-

nities to make informed decisions about issues facing their environments and communities.

The theater itself consists of an interactive, 3-D environment with computational resources built using state-of-the-art graphics technologies. The core component, called the Drum, is a 260-degree, faceted screen with seven rear projection passive stereo sources that can display panoramic computer graphics or 3-D screen video content. The Drum accommodates 20 people and includes tools for collecting participant input and interaction inside the Drum. The advanced visualization environment enables policy makers and others to see in detailed, 3-D representation the consequences of behavior, decisions, and policy to examine potential scenarios.

The fusion and integration of decision-making tools at the Decision Theater coupled with the vast knowledge network of ASU researchers provides emerging science and social decision makers an unparalleled resource. Examples of projects for the DT include business forecasting; homeland security applications and simulations; tracking regional health issues; land use planning, transportation, and security analysis; food chain management; spatial analysis of service delivery; facility planning; environmental analysis; biomedical and bioengineering models; cognitive and behavioral outcomes.

The Decision Theater is located in the Orchid House in downtown Tempe. Public and group demonstrations can be scheduled by calling 480/965-4098 or 480/965-4808.

For more information, access the DT Web site at www.decisiontheater.org.



The Decision Theater features state-of-the-art graphics technologies.

James L. Christy photo

Fees, Deposits, and Other Charges

Academic Year Tuition	53
Other Fees, Deposits, and Charges	53
Transportation	55
Payment Methods and Deadlines	55
Refunds	56
Delinquent Financial Obligations	56
Residency Classification Policies and Procedures	57

The Arizona Board of Regents reserves the right to change fees and charges without notice. The latest *Schedule of Classes* usually includes up-to-date amounts. The following fees apply to credit and noncredit (audit) registrations.

DEFINITIONS

Resident tuition refers to the charge assessed to all resident students who register for classes at ASU. *Nonresident tuition* refers to the charge assessed to nonresident students, as established in Arizona Board of Regents' Policy 4-102.

ACADEMIC YEAR TUITION

The resident and nonresident tuition for fall and spring semesters is shown in the "2005–2006 General University Per Semester Tuition" table, page 54. The amounts listed are per semester hour each academic term. For more information on classification for fee status, see "Residency Classification Policies and Procedures," page 57.

Resident students registered for seven or more hours or nonresident students registered for 12 or more hours are considered full-time for tuition payment purposes. See "Enrollment Verification Guidelines," page 82.

Note: The rate for one hour is charged if the student is registered for only a zero-hour class.

Program Fees. Certain graduate and undergraduate programs assess an additional program fee. These fees differ according to college and/or program. Contact the program advisor for details on these fees, or access tuition and fees schedules on the Web at www.asu.edu/sbs.

Summer Sessions Fees. For summer sessions fees information, see the *Summer Sessions Bulletin*. The fees are per credit hour for credit or audit. See also "Summer Sessions," page 172.

Tuition Installment Plan

The tuition installment plan offers students an option to divide fall and spring semester tuition payments over several months. Students may enroll in the tuition installment plan over the phone using SunDial, on the Internet through

ASU Interactive, in person, and by mail. Students must reenroll in the plan each semester.

All students are eligible to enroll in the plan after they register for classes. If students receiving financial aid choose to enroll in the plan, all tuition charges are paid by financial aid and any remaining financial aid is refunded to the student. Students with financial aid continue to have the option to hold their classes at no extra cost rather than enrolling in the plan.

Upon enrollment in the plan, tuition is billed in three installments on the Student Account Receivable System. For example, for the fall semester, the first billing statement is mailed in early August, with tuition due on August 25, September 25, and October 25.

Students are charged a per semester administrative fee to cover costs associated with enrollment in the plan. The fee is billed on the Student Account Receivable System and is due at the same time as the first installment. The fee is non-refundable, even if students withdraw from classes. The per semester enrollment fee is \$75.

Once a student enrolls in the plan for a given semester, he or she is not withdrawn from classes during the current semester. Students must withdraw from classes if they decide not to attend. If students enrolled in the plan do not make scheduled payments, the students are prohibited from registering for classes in future semesters and are blocked from receiving university services, such as transcripts. Former students with outstanding tuition charges are referred to an outside collection agency.

OTHER FEES, DEPOSITS, AND CHARGES

Class Fees and Deposits. Certain university classes require payment of fees or deposits for materials, breakage, and rentals. These fees and deposits are listed in the *Schedule of Classes* for each semester.

Student Recreation Complex Fee. All students (except university employees) must pay a mandatory Student Recreation Complex fee. Students enrolled for seven or more hours are charged \$25 per semester. Students registered for fewer than seven hours pay \$12 per semester, and summer students pay \$12 per session. See the latest *Schedule of Classes* for more information.

Financial Aid Trust Fee. All students must pay a financial aid trust fee. Students enrolled for seven or more hours are charged no more than 1 percent of the current tuition. The fee for students enrolled six or fewer hours is half that charged students enrolled for seven or more hours. The total summer sessions fee does not exceed the amount for a student enrolled for seven or more hours. Fees collected from students are matched by the State of Arizona and used to create the Arizona Student Financial Aid Trust Fund, from which Financial Aid Trust grants are awarded under the

FEES, DEPOSITS, AND OTHER CHARGES

2005–2006 General University Per Semester Tuition

Hours	General Undergraduate Tuition ¹				Postbaccalaureate and Graduate Tuition ¹		
	Resident ²		Nonresident at Any Campus		Resident	Nonresident at Any Campus	
	Tempe Campus	Polytechnic or West Campus	Continuing Student	New or Readmitted Student	All Campuses	Continuing Student	New or Readmitted Student
1	\$ 225	\$ 221	\$ 580	\$ 625	\$ 286	\$ 610	\$ 655
2	450	442	1,160	1,250	572	1,220	1,310
3	675	663	1,740	1,875	858	1,830	1,965
4	900	884	2,320	2,500	1,144	2,440	2,620
5	1,125	1,105	2,900	3,125	1,430	3,050	3,275
6	1,350	1,326	3,480	3,750	1,716	3,660	3,930
7	2,156	2,126	4,060	4,375	2,733	4,270	4,585
8	2,156	2,126	4,640	5,000	2,733	4,880	5,240
9	2,156	2,126	5,220	5,625	2,733	5,490	5,895
10	2,156	2,126	5,800	6,250	2,733	6,100	6,550
11	2,156	2,126	6,380	6,875	2,733	6,710	7,205
12 or more	2,156	2,126	6,959	7,500	2,733	7,324	7,865

¹ Tuition is subject to change. In addition to tuition, students are charged other fees (e.g., the Student Recreation Complex fee, financial aid trust fee, special class fees, and program fees). Access tuition and fee schedules on the Web at www.asu.edu/sbs.

² Full-time resident undergraduate tuition is \$1 less in the spring semester.

established Student Financial Assistance office's aid eligibility criteria.

Arizona Students' Association (ASA) Fee. The ASA is a nonprofit lobbying organization that represents Arizona's public university students to the Arizona Board of Regents, State Legislature, and U.S. Congress. In 1997, students at the state universities voted to change the mechanism for funding the ASA. A \$1 fee is charged to each student every semester. Any refunds for this fee are provided through the ASA Central Office.

Late Registration. The fee assessed for registrations on or after the first day of each session is \$50.

Admission Application. The nonrefundable fee for undergraduate applications is \$25 for residents and \$50 for non-residents.

Transcripts. The fee for an official transcript is \$10 per copy. "Rush" transcripts (requested to be printed and picked up on the same day) will cost \$10 in addition to the total cost of the transcripts ordered. Special delivery requests via Federal Express or U.S. Express Mail, instead of regular mail, will cost \$19.50 per delivery address within the United States, in addition to the cost of the transcript(s). Special express deliveries to addresses outside the United States are available via international Federal Express or International Express Mail; these cost \$38. Express costs are in addition to the cost of the transcripts. For delivery details, students should contact the Registrar's Office. Fees are subject to change without notice.

Unofficial transcripts may be requested in person at the University Registrar's Office, by mail, or by fax at 480/965-2295 if a signed release is provided. There is no charge for an unofficial transcript. Also, students may view and

print their own unofficial transcripts via the Web using ASU Interactive at www.asu.edu/interactive.

For more information, see "Transcripts," page 86.

Copies of Education Records Other Than ASU Transcripts. For fewer than six pages, there is no charge. For six to 10 pages, the total charge is \$2. For 11 to 15 pages, the total charge is \$3. Copies of additional pages cost \$1 for every five pages copied.

Comprehensive Examination. This fee is paid by all students seeking to establish credit by examination and is \$50 per semester hour.

Private Music Instruction. Any applicable music instruction fees are billed with tuition and fees. Fees are listed in the *Schedule of Classes* for each semester.

Musical Instrument Rental Charge. The charge for use of university-owned musical instruments is \$25 per semester. Consult the School of Music for specific information.

Binding and Microfilm Fees. The binding fee for a thesis or dissertation is \$17 per copy. This fee is subject to change. Additional charges may be required depending on the size and nature of the document. The dissertation microfilming fee is \$55 and is subject to change.

Sun Card/ID Card. The fee is \$25.

Parking Decals. A parking decal must be purchased, in person or online at www.asu.edu/dps/pts, for motor vehicles parked on campus except in areas where metered parking or visitor lots are available. Decals are sold on a first-come, first-served basis. For more decal sales information, call 480/965-6124, or visit the Web site at www.asu.edu/dps/pts.

Each vehicle registered at ASU Parking and Transit Services must comply with Arizona emission standards (A.R.S.

§ 15-16276) during the entire registration period. For more information, access www.azdot.gov.

Everyone is encouraged to support travel reduction measures by carpooling, bicycling, walking, or using mass transit or the university shuttle bus whenever possible.

Parking Violations. Due to a high demand for parking, regulations are strictly enforced. Fines range from \$25 to \$250. Appeals to parking citations may be filed within 14 calendar days to Parking and Transit Services and, after payment, may be further appealed to the Parking Citation Appeals Board. Unpaid parking citations are delinquent financial obligations subject to certain provisions; see "Delinquent Financial Obligations," page 56. The vehicle of any person owing three or more unpaid parking citations or \$100 in unpaid parking citations is subject to impoundment. For more information, call 480/965-4527 or access the Parking and Transit Services Web site at www.asu.edu/dps/pts.

Returned Checks. Checks and eChecks returned by a bank are assessed a \$15 service charge with repayment needed within five business days of notification. A second \$12 service charge is made if the returned check or eCheck is not repaid within this five-day period. Repayment of a returned check must typically be in cash.

ASU may have arrangements with its bank to redeposit automatically for a second time checks for which there are insufficient funds. No service charge is assessed by ASU until a check is returned to ASU; however, the payer may be assessed a service charge by the payer's financial institution.

Students with severely delinquent accounts are subject to involuntary withdrawal from the university if repayment is not made. All students involuntarily withdrawn are charged according to the standard refund schedule as of the involuntary withdrawal date, as determined by the university.

Campus Housing and Dining. The cost of Tempe campus housing and dining varies. Housing rates for 2005–2006 ranged from \$3,481 to \$4,887. Dining rates ranged from \$2,165 to \$3,250. Housing and dining rates for 2006–2007 will be announced in spring 2006. For more information, see "Residential Life," page 279, call 480/965-3515, or access the Residential Life Web site at www.asu.edu/studentaffairs/reslife.

TRANSPORTATION

To reduce air pollution and traffic congestion, students are encouraged to travel to and from campus by means other than automobile and to reduce transportation needs through careful class scheduling. Nearby on-campus parking is limited and tightly controlled.

Alternative transportation modes are used by thousands of ASU students. ASU is served by a regional transit service. In addition, an inexpensive express shuttle runs between the Tempe campus and the West campus in northwest Phoenix; another shuttle runs among the Tempe campus, Mesa Community College, and the Polytechnic campus in Mesa; and a Free Local Area Shuttle (FLASH) is available around the periphery of the Tempe campus. A free Neighborhood FLASH also is available for the Tempe campus community connecting the Escalante and University Heights neighborhoods with the Riverside/Sunset and

Lindon Park neighborhoods through downtown Tempe and the Tempe campus.

Bicycle ridership at ASU is estimated to be more than 15,000 students daily. Ample racks in many locations enable the parking and securing of bicycles. Bicycle use is restricted only in those areas of campus where pedestrian traffic is sufficiently heavy to make such use a hazard. The Bike Co-op Repair Service provides assistance with bicycle maintenance.

For more information on commute alternatives, call the Travel Reduction Office at 480/965-1072 or access the Parking and Transit Services Web site at www.asu.edu/dps/pts.

PAYMENT METHODS AND DEADLINES

ASU Interactive. ASU Interactive, on the Web at www.asu.edu/interactive, is the preferred method for accessing tuition services. Students may enroll in the tuition installment plan and make fee payments via the Web. For more information, refer to the *Schedule of Classes* or the Student Business Services Web site at www.asu.edu/interactive.

Credit Cards. For tuition and student accounts receivable payments, Mastercard, Discover, and American Express are accepted through ASU Interactive only. A nonrefundable convenience fee is assessed by the processor.

eChecks. eChecks are the university's preferred payment method and are accepted at no cost to the student through ASU Interactive. For more information, access the Student Business Services Web site at www.asu.edu/sbs.

Checks. Checks payable for the exact amount of charges and without a restrictive endorsement are generally acceptable, except for students on check-use suspension due to a previously returned check.

Third-Party Sponsor Billing. ASU bills qualified third-party sponsors for tuition, books, and supplies upon submission of a guarantee of payment. Qualifying sponsors must have offices in the United States and can be, among others, approved corporations, vocational rehabilitation offices, government agencies, and international embassies. A per student sponsored tuition fee of \$35 is assessed each semester. Students are responsible for all tuition, fees, and late charges not paid by the third-party sponsor.

Veterans Deferred Payment. The Veterans Readjustment Assistance Act allows veterans to apply for deferred payment of fees, books, materials, and supplies required for courses. To assist eligible students, a Veterans Deferment Request Form may be issued deferring payment during their first semester of benefits. Visit the Veterans Services section at SSV 140, or call 480/965-7723 for information on meeting the requirements. ASU may deny this privilege if the student has had previous delinquent obligations.

Payment Deadlines. Fees must be paid or financial aid awarded by the deadline dates and times indicated or the student is enrolled in the Tuition Installment plan and assessed the nonrefundable enrollment fee. A fee payment deadline is printed on all Schedule/Billing Statements,

FEES, DEPOSITS, AND OTHER CHARGES

which may be obtained at the University Registrar's Record Information counter at the Tempe campus, Records and Registration at the West campus, Registration Services at the Polytechnic campus, or via the Web at www.asu.edu/ interactive, and in the *Schedule of Classes*.

REFUNDS

Academic Year Resident and Nonresident Tuition. Students withdrawing from school or individual classes receive a refund as described in the "Fall and Spring Withdrawal Refunds" table, on this page.

The university provides a prorated refund for first-time students receiving financial aid; therefore, the refund schedule is the minimum amount refundable to these students.

Withdrawal occurs on the calendar day that withdrawal is requested, either in person at a registrar site or by phone using SunDial. Students withdrawing for medical or other extenuating circumstances must contact their college for refunds that may be available under such circumstances.

Fall and Spring Withdrawal Refunds

Withdrawal Date	Refund
Before first day of the semester	100%*
One through seven calendar days	80%
Eight through 14 calendar days	60%
15 through 21 calendar days	40%
22 through 28 calendar days	20%
After the 28th calendar day	No refund

* A \$35 processing fee is subtracted per session for refunds after the initial tuition payment deadline.

Summer Sessions Fees. Students withdrawing from any summer session or individual classes receive a refund as described in the "Summer Sessions Withdrawal Refunds" table below. *Refunds are based on the session days and not the class meeting dates for any particular class.*

Summer Sessions Withdrawal Refunds

Withdrawal Date	Refund
Before first day of session	100%*
First and second days of session	80%
Third day of session	60%
Fourth day of session	40%
Fifth day of session	20%
After fifth day of session	No refund

* A \$35 processing fee is subtracted per session for refunds after the initial tuition payment deadline.

Class Fees and Deposits. After the first week of classes, refunds, if any, are determined only by the department or school offering the course. Refund determination is based on withdrawal date, type of activity, and costs already assessed by the department or school.

Private Music Instruction. If a student must drop a music course because of illness or other emergency beyond the student's control, not more than half of the instruction

charge may be refunded, as determined by the School of Music.

Late Registration. This fee is not refundable.

Student Recreation Complex Fee. This fee is refundable only upon complete withdrawal, in percentage increments per the refund schedule. Upon withdrawal, access to the SRC is terminated.

Financial Aid Trust Fee. This fee is not refundable.

Official Transcripts. Overpayments by mail of \$5 or less are refunded only by specific request.

Graduation Fee. Overpayments by mail of \$5 or less are refunded only by specific request.

Residence Halls. Refunds to students departing from Tempe campus residence halls before the end of the academic year are computed as prescribed by the Residential Life License Agreement that students sign when they apply for residence hall accommodations. Students should refer to the Residential Life Schedule of Charges and Deadlines for specific information on refunds.

Other University Charges. Other university charges are normally not refundable, except for individual circumstances.

Payment of Refunds. Refunds require student identification and are made payable only to the student for the net amounts due the university. When the last day of a refund period falls on a weekend or holiday, a withdrawal form must be submitted to one of the registrar sites during operating hours on the workday preceding the weekend or holiday. Refunds are normally paid by check, payable to the student, and mailed to the student's local address, or by direct deposit to the student's bank account.

Parking Decal Refunds. Prorated refunds are available through the last business day in April.

Forfeiture of Refunds. Refunds are subject to forfeiture unless obtained within 90 days of the last class day of the semester for which the fees were originally paid.

DELINQUENT FINANCIAL OBLIGATIONS

Arizona Board of Regents' Policy 4-103B, which applies to ASU, states the following:

1. Each university shall establish procedures to collect outstanding obligations owed by students and former students.
2. Each university shall maintain a system to record all delinquent financial obligations owed to that university by students and former students.
3. Students with delinquent obligations shall not be allowed to register for classes, purchase parking decals, receive cash refunds, or obtain transcripts, diplomas, or certificates of program completion. The university may allow students to register for classes, obtain transcripts, diplomas, or certificates of program completion if the delinquent obligation is \$25 or less.

4. Unpaid obligations shall remain a matter of record until students and former students satisfy their financial obligations or until satisfactory arrangements for repayment are made with the university.
5. The university may write off delinquent financial obligations of students according to accepted accounting principles and after appropriate collection efforts. No such write-off shall operate to relieve the student of liability for the obligation nor shall such write-off entitle the student to release of any transcripts, diplomas, certificates of program completion, or to register for further university classes until such obligation is actually paid.
6. Each university shall include this policy in its bulletin or catalog.

A late charge of \$15 is assessed for balances due the university between \$20 and \$100 not paid within 30 days of the initial due date. Three additional \$15 late charges are assessed at 60, 90, and 120 days past due. Following the same late charge assessment schedule (of 30, 60, 90, and 120 days past due), the fee for past due balances between \$100 and \$1,000 is \$25 and for past due balances in excess of \$1,000 is \$50.

RESIDENCY CLASSIFICATION POLICIES AND PROCEDURES

The Arizona Board of Regents is required by law to establish uniform guidelines and criteria for classifying students' residency to determine those students who must pay nonresident tuition. The following is a summary of the general guidelines used to determine residency for tuition purposes. All of the evidence is weighed under the presumption that a nonresident student's presence in Arizona is primarily for the purpose of education and not to establish domicile and that decisions of an individual about the intent to establish domicile are generally made after the completion of an education and not before.

To obtain resident status for tuition purposes, independent students must establish their residence in Arizona at least one year before the last day of regular registration for the semester in which they propose to attend ASU. Arizona residence is generally established when individuals are physically present in the state with the intention of making Arizona their permanent home.

Mere physical presence in Arizona for one year does not automatically establish residency for tuition purposes. Adult students and emancipated minors must combine physical presence in Arizona for one year with objective evidence of their intent to make Arizona their permanent home. If these steps are delayed, the one-year period is extended until both presence and intent have been demonstrated for one full year. In addition to physical presence and intent, the student must demonstrate financial independence for the two tax years immediately preceding the request for resident classification. The student must demonstrate objective evidence of self-support and that he or she was not claimed as an income tax deduction by his or her parents or any other individual for two years. An adult student is defined as being at least 18 years of age at the beginning of the domicile year. For a complete definition of an emancipated minor, refer

to the Arizona Board of Regents' residency classification policies, available in the Residency Classification section, SSV 140.

No person is considered to have gained or lost resident status merely by attending an out-of-state educational institution.

Aliens. Students who are aliens are subject to the same requirements for resident status as are U.S. citizens. In establishing domicile, aliens must not hold a visa that prohibits establishing domicile in Arizona.

Refugees. Refugees may qualify as resident students by virtue of having been granted refugee status in accordance with all applicable laws of the United States and having met all other requirements for residence in Arizona.

Exceptions to the General Residency Rule

Students may be eligible for resident status for tuition purposes if they can meet one of the following criteria on or before the last day of regular registration.

Legal Dependents. If a student and his or her parents are domiciled in Arizona and have not met the one-year residency requirement but the parents are entitled to claim the student as a dependent for federal and state tax purposes, the student may be eligible for resident status for tuition purposes.

Transferred Employees. If students are domiciled in Arizona and have not met the one-year residency requirement but are employees or spouses of employees who have been transferred to Arizona by their employers for employment purposes, the students may be eligible for resident status for tuition purposes.

Members of the Military. If students are not domiciled in Arizona but are members of the U.S. Armed Forces stationed in Arizona or are the spouses or dependent children of a member (as defined in A.R.S. § 43-1001), the students may be eligible for resident status for tuition purposes. If military service is concluded while enrolled, students do not lose resident status while they are continuously enrolled in a degree program. If individuals are domiciled in Arizona immediately before becoming members of the U.S. Armed Forces, they do not lose resident status because of their absence while on active duty with the military as long as they maintain Arizona affiliations and file Arizona state tax.

A student who is a member of an Arizona National Guard or Arizona Reserve unit may be eligible for resident status for tuition purposes. A student may also be eligible if he or she has been honorably discharged from the armed forces of the United States, has declared Arizona as his or her legal residence one year before discharge, and has taken the other appropriate actions, including filing an Arizona income tax return. A student who is the spouse or dependent of a member of the armed forces who has claimed Arizona as his or her legal residence and filed Arizona income tax for one year before enrollment may be eligible for resident status for tuition purposes.

Spouse of Arizona Resident. If the student's spouse has established domicile in this state for at least one year and has demonstrated intent and financial independence and is

FEES, DEPOSITS, AND OTHER CHARGES

entitled to claim the student as an exemption for state and federal tax purposes, or if the student's spouse was temporarily out of the state for educational purposes but maintained a domicile in this state, the student may be eligible for resident status for tuition purposes. Also, if the student is a noncitizen, the student must be in an eligible visa status pursuant to federal law to classify as an in-state student for tuition purposes.

Teachers and Classroom Aides. If a student is under contract to teach on a full-time basis or is employed as a full-time noncertified classroom aide at a school within an Arizona school district, the student is eligible to pay resident tuition only for courses necessary to complete the requirements for certification by the State Board of Education.

Native Americans. Students who are members of a Native American tribe whose reservation lies both in Arizona and an adjacent state and who are residents of that reservation may be eligible for resident status for tuition purposes.

Procedures for Establishing Resident Status

All students are responsible for obtaining residency classification for tuition purposes before registering and paying their fees. This procedure requires students to complete and file an Arizona residency information form. This form is required of all new and returning students as part of the admission or readmission process. Students classified as nonresidents who believe they may qualify for resident status must file a petition with the Residency Classification

section. This petition must be filed by the last day of regular registration. A student seeking resident status must also file supporting documentation necessary to provide a basis for residency classification (source[s] of support, driver's license, voter's registration, vehicle registration, etc.). Students whose residency petitions are in process at the fee payment deadline are responsible for paying nonresident tuition. However, an appropriate refund is issued if resident status is later granted for that semester.

Any student found to have made a false or misleading statement concerning resident status is subject to dismissal from the university.

Failure to file a timely written petition for reclassification of resident status for tuition purposes constitutes a waiver of the student's right to apply for the given semester. Petition deadlines are published each semester in the *Schedule of Classes*. Extensions to the deadlines are not permitted.

Residency classification is an extremely complex issue. The information presented here is a summary and does not address each individual's situation; therefore, students are encouraged to make a personal visit to the Residency Classification section to discuss their individual circumstances as soon as possible. Guidelines for determination of residency for tuition purposes are subject to review and change without notice. For more information, call the Residency Classification section at 480/965-7712, or access the Web site at www.asu.edu/registrar/residency.



San Pablo residence hall on the Tempe campus

Tim Trumble photo

Financial Aid

The primary responsibility for financing a college education belongs to students and their families (see the "2005–2006 Estimated Budgets for New Full-Time Students" table, page 60). The Student Financial Assistance office helps students, within the limits of available funds, meet college costs. Financial assistance is available as scholarships, grants, loans, and employment. This aid has been made available collectively by the university, alumni, private foundations, civic groups, individuals, and state and federal governments.

To be considered for financial aid, all students must complete the Free Application for Federal Student Aid (FAFSA). This application should be completed in January or early February preceding the academic year the student anticipates attending ASU. The priority date for applying is March 1. Applications completed after this date are processed; however, they are considered late applications. Late applicants are less likely to receive Federal Work-Study, grants, and scholarships due to funding limitations.

Additional documentation may be requested to verify application data. Students receive an award notification once their file is complete. Applicants should carefully read all correspondence received, and if necessary, reply in a timely manner.

Students receiving aid are required to meet minimum standards of satisfactory academic progress. In addition to maintaining the minimum GPA defined for good academic standing, students must complete their degree within the maximum allowable hours and maintain a satisfactory completion rate. Failure to meet these standards results in the suspension of aid for subsequent semesters.

Students can access personal information regarding financial aid through the SunDial phone system at 480/350-1500 or by accessing ASU Interactive at www.asu.edu/interactive. Students can access the following information: (1) documents still needed to complete a financial aid file; and (2) award information.

Documents needed to complete the aid file can be printed from the Student Financial Assistance Web site at www.asu.edu/fa/forms.

TYPES OF FINANCIAL AID AND MAJOR PROGRAMS

In 2006–2007, ASU expects to award an estimated \$340 million in all types of financial aid to more than 37,500 students. There are four categories of financial aid: scholarships, grants, loans, and employment.

Scholarships

Scholarships come from a variety of sources and have different awarding criteria. ASU offers numerous institutional scholarships for incoming freshmen as well as continuing students. In addition, ASU students benefit from a number of scholarships from private sources. Many scholarships are offered on the basis of academic merit. However,

financial need criteria may also be included in the selection of recipients. Other considerations may include leadership qualities and community service.

High school students should contact their high school counselors or visit the scholarship Web site at www.asu.edu/fa/scholarships to determine the application process for scholarships available to entering freshmen. Other undergraduate students may contact the Scholarship Office or search the Web site for available scholarships. In addition, many academic units provide scholarship funding and select students based on a variety of criteria. Students seeking these scholarships should contact the department of their major for more information.

Private Donor Scholarships. Most of these scholarship funds are provided by employers, private individuals, organizations, and corporations. These scholarships are based on criteria established by the donor. The value of these awards varies as do the requirements for selection.

University Scholarships. ASU enrolls the best students from Arizona and the nation and awards scholarships to top students based on their high school performance. High school students are automatically considered for merit-based institutional recruitment scholarships upon their admission to ASU. Additionally, academic departments offer scholarships based on particular disciplines. Access www.asu.edu/fa/scholarships for a comprehensive search of scholarships for ASU students.

Grants

Grants are gift assistance from the federal government, the state, or the university that do not have to be repaid.

Federal Pell Grant. Funded by the federal government, the Pell Grant is awarded to students who demonstrate significant financial need. Pell Grant eligibility is determined by the U.S. Department of Education. All students are informed of their eligibility for the grant through the Student Aid Report. The maximum award for the 2005–2006 academic year was \$4,050 per individual student.

Federal Supplemental Educational Opportunity Grant. The Federal Supplemental Educational Opportunity Grant (FSEOG) is a federally funded, campus-based program. A limited amount of funding is available through the program. The amount received will depend upon a student's financial need, the amount of other assistance awarded, and the availability of funds. Maximum grant awards for 2005–2006 were \$1,000 per individual student.

Leveraging Educational Assistance Partnership (LEAP). This is a three-partner program of federal, state, and university funding. Students with high financial need may receive this particular form of funding. It is restricted to residents of Arizona. The maximum grant for 2005–2006 was \$2,000 per individual student.

FINANCIAL AID

2005–2006 Estimated Budgets for New Full-Time Students

Item	Residents			Nonresidents	
	Dependent		Independent	Dependent	Independent
	At-Home	On/Off Campus			
Tuition and mandatory fees*	\$ 4,396	\$ 4,396	\$ 4,396	\$ 15,095	\$ 15,095
Room and board	\$ 2,429	\$ 6,768	8,354	6,768	8,354
Books and supplies	948	948	948	948	948
Transportation	1,200	1,200	1,444	1,200	1,444
Personal	2,526	2,526	3,236	2,526	3,236
Total	\$ 11,499	\$ 15,838	\$ 18,378	\$ 26,537	\$ 29,077

* Tuition and fees vary by campus. Actual amounts of tuition are shown in the “2005–2006 General University Per Semester Tuition” table, page 54. Amounts do not include continuing student tuition or additional class or program fees. Actual expenses may vary due to personal choices.

Student Financial Aid Trust Grant. Provided in partnership between ASU students and the state legislature, these funds are provided primarily to resident, undergraduate or underrepresented students with high financial need. The maximum grant for 2005–2006 was \$2,000 per individual student.

University and ASU Grants. University grants are generally reserved as the last grant programs used to resolve a student’s need. Funded by the university, these grants are available for both resident and nonresident students. The maximum grant awards for 2005–2006 were \$2,500 per individual student.

Loans

Loans are forms of financial assistance available from sources such as the federal government and private lenders that must be repaid and will include any accrued interest.

Federal Direct Stafford Loans. The federal government loans money to students based on the university’s determination of the student’s financial need and cost of education. Repayment begins after the student graduates, leaves school, or drops below half-time enrollment. There are two Stafford Loan types: subsidized and unsubsidized. With a subsidized Stafford, the federal government pays the interest on the loan principal during the student’s in-school status, grace, and other authorized periods of deferment.

The school may determine that the student is eligible for an unsubsidized Stafford Loan. In this program, the federal government does not pay the interest during the student’s in-school status, grace, or other authorized periods of deferment. As the student proceeds through school, interest will accrue and will be added to the principal once the student enters repayment. Otherwise, conditions and terms for the two programs are the same.

The variable interest rate is adjusted every July 1. The rate cannot exceed 8.25 percent. In addition, there is a 3 percent loan origination fee deducted from each disbursement. The federal government provides several options for repayment once the student has left school. For students who are considered dependent based on their financial aid application, the following total annual loan limits for subsidized and unsubsidized loans apply: freshmen may borrow

up to \$2,625 per year; sophomores, up to \$3,500 per year; and juniors and seniors, up to \$5,500 per year. For students who are considered independent, the following annual loan limits apply: freshmen may borrow up to \$6,625, of which only \$2,625 can be subsidized; sophomores, up to \$7,500, of which only \$3,500 can be subsidized; and juniors and seniors, up to \$10,500, of which only \$5,500 can be subsidized.

Federal Perkins Loans. The Federal Perkins Loan program is funded by the federal government and is awarded based on financial need. The school is the actual lender, and repayments after graduation are made to the university at a 5 percent interest rate. Like the subsidized Stafford Loan, no interest accrues on the Perkins Loan during the student’s in-school status, grace, or other authorized periods of deferment. If funding is available, deferment and cancellation provisions may apply to graduates working in community service, qualifying law enforcement, and teaching occupations. Maximum undergraduate awards for 2005–2006 were \$3,000 per individual student.

Parent Loan for Undergraduate Students. Under the Parent Loan for Undergraduate Students (PLUS) Program, parents may borrow money from the federal government on behalf of their dependent students. With this loan, interest is not deferred and repayment begins within 60 days of the final disbursement for the enrollment period. The PLUS approval is based on the parents’ credit history. There is a variable interest rate adjusted every July 1 that cannot exceed 9 percent. The maximum loan amount is determined by subtracting all other financial aid from the student’s cost of education. If parents are determined ineligible for a PLUS and students need additional funds, they should contact the Student Financial Assistance office to determine their eligibility for an unsubsidized Stafford Loan.

Employment

The Student Employment Office provides employment opportunities to students who must work to meet educational expenses or who wish to work because they feel the experience can be a valuable part of their education. Federal Work-Study and hourly positions are available. For more information, access www.asu.edu/fa/studemp on the Web.

Federal Work-Study. The Federal Work-Study program encourages community service work and jobs that complement and reinforce educational or career goals. Funds for this program are provided on a matching basis by the federal government and ASU. Students employed under this program receive the same pay rates as other students employed on campus. In this program, students must demonstrate a financial need as established through completion of the Free Application for Federal Student Aid.

University Hourly. ASU, with its own resources, hires many students on a part-time basis. Although the jobs are similar to those under the Federal Work-Study Program, the university provides the entire amount of the student's wage.

Part-Time Off-Campus. The university receives requests for assistance from many agencies and companies throughout the area to help them recruit and hire students on a part-time basis. This job listing service provides opportunities for students not only to earn funds to support their education, but to gain experience in the areas of their majors or career interests.

Educational Tax Credits. Students may be eligible for either the Hope Scholarship Credit or the Lifetime Learning

tax credit. Additional information about these tax credits is available on the Web at www.asu.edu/sbs.

Consult a personal tax advisor about qualifications for the Hope Scholarship Credit, and Lifetime Learning tax credit.

Taxability of Financial Aid Programs

Scholarships, grants, fellowships, and stipends (but not loan funds) are taxable income to the recipient, except for the portion of these funds used for tuition, registration, and other university fees, or books, supplies, and equipment required for the courses being taken. Special tax regulations also apply to nonresident alien students and may require withholding of taxes at the time of aid disbursements to these individuals. Information on the taxability of scholarships can be obtained from the following Internal Revenue Service (IRS) publications and forms: *Publication 4—Student's Guide to Federal Income Tax*; *Publication 519—U.S. Tax Guide for Aliens*; *Publication 520—Scholarships and Fellowships*; *Form 1040EZ and Instructions—Income Tax Return for Single and Joint Filers With No Dependents*; and *Form 1040NR and Instructions—U.S. Nonresident Alien Income Tax Return*.

These publications and forms can be obtained by calling the IRS at 1-800-829-FORM (3676) or by accessing the IRS Web site at www.irs.gov.



Old Main, the university's first classroom building, is now home to the ASU Alumni Association.

Tim Trumble photo

Classification of Courses

COURSE INFORMATION

Information about all lower- and upper-division courses offered at the Polytechnic and Tempe campuses appears in the *General Catalog*, available on the Web at www.asu.edu/aad/catalogs. Course information at this Web site is more current than in the printed catalog.

Graduate-level courses offered at all campuses are described in the *Graduate Catalog*.

Classes scheduled for the current or upcoming fall or spring semester are listed in the *Schedule of Classes*. Classes scheduled for the summer sessions are listed in the *Summer Sessions Bulletin*. Class schedules are available on the Web at www.asu.edu/registrar/schedule.

COURSE LISTINGS

See "Course Prefixes," page 7, for the location within the catalog of all ASU courses by prefix. See the "Key to Course Listing" diagram, on this page, for help in understanding listings.

Campus Code. Campus codes are used in the *General Catalog* only for course prefixes used by more than one campus. Campus codes are used for all courses offered at the Polytechnic campus (E), Tempe campus (M), and West campus (W) in the *Schedule of Classes* and the *Summer Sessions Bulletin*. (Tempe campus was formerly known as ASU Main.)

Semester Offered. In the *General Catalog* and *Graduate Catalog*, the semester offered shows when the academic unit plans to offer the course. Refer to the *Schedule of Classes* and the *Summer Sessions Bulletin* in print or on the Web for the actual course offerings.

Prerequisites and Corequisites. Some requirements, known as prerequisites, must be met *before* registering for a

course. Other requirements, called corequisites, must be met *while* taking a course. A student registering for a course should be able to show that prerequisites have been met and that corequisites will be met as stated in the catalog or *Schedule of Classes* or must otherwise satisfy the instructor that equivalent preparation has been completed.

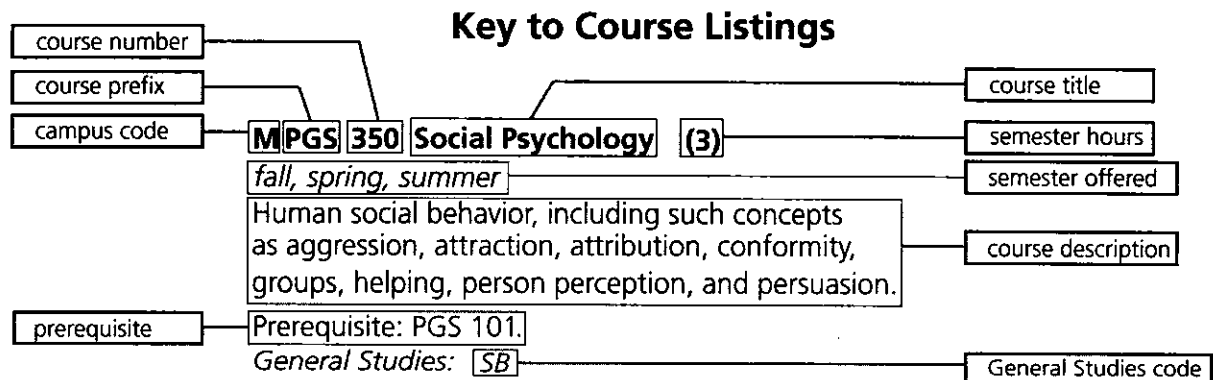
General Studies Code. See "General Studies," page 93, for an explanation of the General Studies requirement, which applies to students pursuing a bachelor's degree.

COURSE NUMBERING SYSTEM

Lower-Division Courses. Lower-division courses, numbered from 100 to 299, are designed primarily for freshmen and sophomores. Certain classes are closed to freshmen who lack the designated prerequisites or whose majors are outside the unit offering the course. This information is available in the *General Catalog*, in the *Schedule of Classes*, or from the student's academic advisor.

Upper-Division Courses. Upper-division courses, numbered from 300 to 499, are designed primarily for juniors and seniors. Prerequisites and other restrictions should be noted before registration. Courses at the 400 level apply to graduate degree requirements for some graduate programs when approved by the Division of Graduate Studies.

Graduate-Level Courses. Graduate-level courses, numbered from 500 to 799, are designed primarily for graduate students. However, an upper-division undergraduate student may enroll in these courses with the approval of the student's advisor, the course instructor, the department chair, and the dean of the college in which the course is offered. If the course does not meet an undergraduate graduation requirement, it may be eligible for use in a future graduate program on the same basis as work taken by a nondegree



Michael Martin graphic

CLASSIFICATION OF COURSES

graduate student. See “Reserving of Course Credit by Undergraduates,” page 82.

Omnibus Courses

Omnibus numbers are used for courses offered on an experimental or tutorial basis or for courses in which the content is new or periodically changes. Academic units use their prefixes with omnibus course numbers. The general nature of the work required for a particular omnibus course is consistent from unit to unit, but subject matter varies. Omnibus courses are often offered for a variable number of semester hours. See the appropriate academic unit in the *General Catalog* or major in the *Graduate Catalog* for omnibus courses.

Within the catalogs and *Schedules of Classes*, abbreviations are frequently used with a colon to introduce specific omnibus course topics (e.g., IBS 494 ST: Regional Business Environment of Southeast Asia). See the “Omnibus Course Abbreviations” table below.

Omnibus Course Abbreviations

Abbreviation	Title	Number
AP	Applied Project	593, 693, 793
CW	Conference and Workshop	594
FW	Field Work	583, 683, 783
FYS	First-Year Seminar	191
HC	Honors Colloquium	497
P	Practicum	580, 680, 780
PS	Pro-Seminar	498
R	Research	592, 692, 792
RC	Reading and Conference	590, 690, 790
RM	Research Methods	500, 600, 700
S	Seminar	591, 691, 791
ST	Special Topics	194, 294, 394, 494, 598

OMNIBUS UNDERGRADUATE COURSES

191 First-Year Seminar. (1–3)

Small course emphasizing student-faculty discussion/interaction. Strongly recommended for first-year students. Must have taken 25 or fewer semester hours. Consulting an academic advisor before enrolling is recommended.

194, 294, 394, 494 Special Topics. (1–4)

Covers topics of immediate or special interest to a faculty member and students.

484 Internship. (1–12)

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

498 Pro-Seminar. (1–7)

Small-group study and research for advanced students within their majors. Major status in the department or instructor approval is required.

499 Individualized Instruction. (1–3)

Provides an opportunity for original study or investigation in the major or field of specialization on an individual and more autonomous basis. Neither a substitute for a catalog course nor a means of taking a catalog course on an individual basis. Requires application well in advance of regular registration with the student’s advisor, the advisor’s

signature, and approval by both the instructor with whom the student will work and the chair of the department offering the course. This course may be taken only by outstanding senior students who have completed at least one semester in residence and who have a cumulative GPA of 3.00 or higher in the major or field of specialization. A special class fee may be required.

First-Year Seminar. The First-Year Seminar series is specifically designed to meet the needs of the first-year student. Faculty members volunteer to direct the seminars and choose course topics according to their own interests and areas of specialization. Class size is restricted so that, early in their college careers, students may interact directly with some of the best faculty the university has to offer.

Honors Courses. The courses listed as 298 and 492 Honors Directed Study, 493 Honors Thesis, 497 Honors Colloquium, and all courses with the HON prefix are reserved for students in the Barrett Honors College. These courses range from one to six semester hours. Consulting with an honors advisor before enrolling is recommended.

OMNIBUS GRADUATE COURSES

500, 600, 700 Research Methods. (1–12)

Course on research methods in a specific discipline.

580, 680, 780 Practicum. (1–12)

Structured practical experience in a professional program, supervised by a practitioner and/or faculty member with whom the student works closely.

583, 683, 783 Field Work. (1–12)

Structured, supervised field experience in a field science or other discipline requiring experience in field techniques.

584, 684, 784 Internship. (1–12)

Structured practical experience following a contract or plan, supervised by faculty and practitioners.

590, 690, 790 Reading and Conference. (1–12)

Independent study in which a student meets regularly with a faculty member to discuss assignments. Course may include such assignments as intensive reading in a specialized area, writing a synthesis of literature on a specified topic, or writing a literature review of a topic.

591, 691, 791 Seminar. (1–12)

A small class emphasizing discussion, presentations by students, and written research papers.

592, 692, 792 Research. (1–12)

Independent study in which a student, under supervision of a faculty member, conducts research that is expected to lead to a specific project such as a thesis or dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

593, 693, 793 Applied Project. (1–12)

Preparation of a supervised applied project that is a graduation requirement in some professional majors.

594 Conference and Workshop. (1–12)

Topical instruction, usually in compressed format, leading to academic credit. Often offered off campus to groups of professionals.

595, 695, 795 Continuing Registration. (1)

Used in situations where registration is necessary but where credit is not needed. Replaces arbitrary enrollment in reading and conference, research, thesis, dissertation, etc. Used by students when taking comprehensive examinations, defending theses or dissertations, or fulfilling the continuous enrollment requirement in doctoral programs. Credit is not awarded, and no grade is assigned.

598 Special Topics. (1–4)

Topical courses not offered in regular course rotation—e.g., new courses not in the catalog, courses by visiting faculty, courses on timely topics, highly specialized courses responding to unique student demand.

CLASSIFICATION OF COURSES

599 Thesis. (1–12)

Supervised research focused on preparation of thesis, including literature review, research, data collection and analysis, and writing.

792 Research. (1–15)

Independent study in which a student, under the supervision of a faculty member, conducts research that is expected to lead to a specific project such as a dissertation, report, or publication. Assignments might include data collection, experimental work, data analysis, or preparation of a manuscript.

799 Dissertation. (1–15)

Supervised research focused on preparation of dissertation, including literature review, research, data collection and analysis, and writing.

The preceding courses are described in announcements of the Division of Graduate Studies and are also available in the respective departments. Under special circumstances, arrangements may be made at the dean's request, through the approval of the executive vice president and provost of the university, to increase the standard semester hours of credit.

Visiting Student Program. The numbers 597, 697, and 797 in the LAW prefix have been reserved for the Visiting Student Program in the College of Law.

SPECIALIZED PREFIXES

Cohort Management. Various prefixes that start with an "X" are used for registration purposes. These courses are used by Campus Match (see "Campus Match," page 133) in the University College; Learning Communities in the College of Liberal Arts and Sciences; EnGAGE in the

Ira. A. Fulton School of Engineering; and other cohort management groups.

Elementary Education Program. Some elementary education methodology courses use the prefix EDB for purposes of registration. These courses are reserved for students admitted to professional programs. EDB courses are converted to permanent ASU education courses (with other prefixes) following the drop-add period, as determined by the registrar's calendar.

International Programs. Courses with the prefix IPO numbered 495 and 595 are reserved for International Programs study abroad and exchange programs. For most programs, participating students register for 12 semester hours. After completion, undergraduate students receive credit for the study completed, with a minimum of 12 semester hours and a maximum of 18 semester hours; graduate students receive credit with a minimum of six semester hours and a maximum of 12 semester hours.

IPO courses numbered 495 and 595 are converted to ASU credit for recording courses taken abroad.

For some special international programs, students register and receive credit for fewer semester hours.

Joint Admission Continuous Enrollment. Courses with the JAC prefix are used to track students admitted to ASU who are concurrently or solely enrolled in courses offered by a community college.



Sun Devil Stadium on a picture-perfect Saturday for football

Tim Trumble photo

Undergraduate Enrollment

Undergraduate Admission	66
Admission Procedures for Applicants	66
Engineering, Ira A. Fulton School of	70
Business, W. P. Carey School of	70
Journalism and Mass Communication, Walter Cronkite School of	71
Credit by Examination	74
University Testing Requirements	75
Placement Examinations	79
Academic Advising	79
Readmission to the University	80
Academic Renewal	81
Registration	81
Cooperative Programs	82
Grading System	82
Definitions	82
Withdrawals	84
Grade Points	85
Retention and Academic Standards	86
Student Records	87

Arizona State University shares with other colleges and universities a tradition of service and academic excellence that is hundreds of years old. Its purpose is the exchange of knowledge and the pursuit of wisdom. ASU is committed to providing a setting where faculty and students are challenged to exchange ideas and information within an atmosphere of intellectual honesty.

The university offers its students unique opportunities to enjoy both a rich cultural heritage and a diverse student population. Anyone giving evidence of suitable preparation, by way of acceptable academic credentials, is welcome to the university without regard to race, religious creed, or national origin.

Under the constitution and the laws of the State of Arizona, jurisdiction over ASU has been vested in the Arizona Board of Regents (ABOR). The regents, in turn, grant broad legal authority to the president, the administration, and the faculty to regulate student life within reasonable limits.

By enrolling, a student voluntarily assumes certain obligations of conduct and performance. These obligations include acting with honesty, integrity, and fairness in all campus and community activities. They also include avoiding certain behaviors, such as: the irresponsible use of alco-

hol; the use, possession, or distribution of illegal drugs; and verbal or physical assaults. Should a student intentionally or inadvertently become involved in questionable campus-related actions or activities, the university will investigate the circumstances and will enforce its standards of conduct through prescribed procedures contained in the *ABOR Student Code of Conduct*.

The primary purpose for the *ABOR Student Code of Conduct* is to set forth the standards of conduct expected of students who choose to join the university community. Students and student organizations are expected to become familiar with and adhere to this code. Violations of the *ABOR Student Code of Conduct* will result in university disciplinary action being taken and appropriate sanctions being imposed for the misconduct. Copies of the *ABOR Student Code of Conduct* are available in Student Life, SSV 263, or on the Web at www.asu.edu/studentlife/judicial.

The university further reserves the right to take necessary and appropriate action to protect the safety and welfare of the campus community and will cooperate with appropriate law enforcement agencies in their efforts to ensure a safe and secure environment.

ENROLLMENT SERVICES AT ASU

Arizona State University is a richly diverse academic setting with more than 60,000 students. The ASU student may be a traditional 18- to 24-year-old, a recent high school graduate, a community college transfer, someone returning to college to pursue a degree, or a professional studying for an advanced degree or career change. Each of the 50 states and more than 150 countries have students enrolled at ASU.

The university is organized into several distinct administrative areas. University Undergraduate Initiatives, one of these areas, is responsible for the delivery of a variety of services in support of students' educational experiences.

Special attention is given not only to the recruitment of a high-achieving, culturally diverse student body, but also to the creation of an energetic campus environment that both catalyzes the mature development and advances the academic endeavors of students.

Enrollment services to students begin with recruitment, admissions, student financial assistance, on-campus housing, and registration programs. ASU encourages students to explore the facilities, services, and human resources available.

OFFICE OF UNDERGRADUATE ADMISSIONS

A primary goal of Undergraduate Admissions is to identify, inform, recruit, admit, and enroll high quality, diverse undergraduate students through admission programs and services, including early outreach, high school and community college contacts, on- and off-campus programs, applicant services, orientation, and parent programs. Students are highly encouraged to apply online. For admission

UNDERGRADUATE ENROLLMENT

requirements and application procedures, access the Web site at www.vpsa.asu.edu/uga/requirements, or call the Polytechnic campus at 480/727-3278, the Downtown Phoenix and Tempe campuses at 480/965-7788, or the West campus at 602/543-8203.

STUDENT FINANCIAL ASSISTANCE

Pursuing a college education is an important life decision as well as a major financial investment. The cost of a college education can be a major concern for many students and their families. The ASU Student Financial Assistance Office is committed to helping students, within the limits of available funds, meet college costs. Options range from scholarships to financial aid awards—grants, loans, and employment.

Approximately two-thirds of ASU students rely on some form of financial assistance to meet their educational expenses. For more information, call the Tempe campus at 480/965-3355, or the West campus at 602/543-8178, or access the Web site at www.asu.edu/fa.

UNIVERSITY REGISTRAR'S OFFICE

Management of the registration system and maintenance of academic records are the primary responsibilities of the University Registrar's Office. Registration is available through the ASU Interactive Web site at www.asu.edu/interactive; the SunDial telephone registration system at 480/350-1500; or in person at the Records Information counter at the Tempe campus, Registration Services at the West campus, or Registration Services at the Polytechnic campus. The Student Information System stores academic records and improves the quality of data used in academic advising. The University Registrar's Office coordinates applications for graduation; undergraduate readmission; course changes and scheduling; transcript services; applications for residency; verification of enrollment; and veteran's educational benefits. For more information call the Tempe campus at 480/965-4747, or the West campus at 602/543-8203, or access the Web site at www.asu.edu/registrar.

Veterans Services

This office offers complete educational services for U.S. veterans and their eligible dependents. Counseling about admissions, registration, and veterans benefits is available. Veterans programs provide service by advising all interested veterans and dependents about educational benefits and their optimum use. Students must apply each semester to receive veterans benefits. The program also assists students in obtaining suitable paid tutors, when needed, using their federal benefits. Students receiving veterans' educational benefits are not eligible to receive pay for audited courses. Veterans must achieve satisfactory GPAs and earn semester hours that progress toward their academic programs for continued educational benefits, as stated under "Satisfactory Academic Progress," page 87. The university must report this progress to the Department of Veterans Affairs each term. Failure to maintain the minimum GPA established by the university and/or the veteran's college may result in academic probation or disqualification. Although veterans may be eligible for educational benefits while on academic probation, benefits could be affected by a continuing probation

status. The Veterans Services section is located in SSV 140. For more information, call 480/965-7723.

Full services for veterans are also available at the West campus in UCB 120. For more information, call 602/543-8220.

Undergraduate Admission

ASU welcomes an application for admission from any individual seeking to benefit from the university's broad spectrum of educational programs and services.

Prospective students may access information about admission requirements and procedures via the Web at www.asu.edu/admissions. Prospective students may call any campus about visits and tours or to request materials at the following numbers:

Downtown Phoenix and Tempe: 480/965-7788
Polytechnic: 480/727-1359
West: 602/543-8550

ADMISSION PROCEDURES FOR APPLICANTS

Individuals interested in admission to an undergraduate program at ASU must submit the following materials to Undergraduate Admissions: the required application, fee, official transcripts, and test scores. Non-U.S. citizens should see "International Student Admissions," page 72, for additional requirements.

Application for Admission. Prospective students must complete the Application for Undergraduate Admission. As with other state-supported colleges and universities, ASU distinguishes between resident and nonresident students with regard to tuition. Residents of Arizona are required to provide residency information, which is part of the admission application. Any student who does not provide residency information is classified as a nonresident for tuition purposes. For more information about residency, call Residency Classification at 480/965-7712.

Students who do not enroll for the semester in which they are admitted must submit a new application and application fee if they wish to apply for a subsequent semester. All documents are destroyed one year after the semester for which the student has applied if the student is not enrolled in a degree program.

Any misrepresentation or falsification on the admission application, including failure to report any college or university attendance, is cause for cancellation of admission and enrollment and/or any credits earned.

Application for admission may be made via the Web at www.asu.edu/apply.

Application Priority Dates and Fees. The nonrefundable application fee is \$25 for Arizona residents and \$50 for non-residents. Applications for admission and application fees should arrive according to the appropriate priority date. However, applications for admission (other than for international admission) are accepted after the date.

See the "Priority Dates for Submitting Applications and Application Fees" table, page 67.

Freshman Students. Students who will be freshmen may apply beginning July 1 before their senior year of high

Priority Dates for Submitting Applications and Application Fees

Student Status	Definition	Spring*	Summer*	Fall*
Freshman	A student who is applying to ASU while enrolled in high school or a student who has not attended college since high school graduation	Dec. 1	May 1	Feb. 1
Transfer	A student who has graduated from high school and has attended college after graduation from high school	Dec. 1	May 1	June 1
Readmission	A student who has previously attended ASU	Dec. 1	May 1	June 1
Nondegree	A student who has not attended ASU as a degree-seeking student, who has not earned a bachelor's degree, and who is not, at this time, applying to a degree program	Dec. 1	May 1	June 1
International	A student who is not a citizen or permanent resident of the United States of America, nor is a refugee in the United States	Oct. 1	Must apply for spring or fall	May 1

* Domestic applications may be accepted after the priority dates. International applications are not accepted after the priority dates.

school. Priority dates for freshmen are December 1 for spring semester, May 1 for summer sessions, and February 1 for fall semester. If a student is currently a high school senior, his/her complete application for admission (application, transcripts, and test scores) must arrive before December 1 to be eligible for institutional scholarship consideration.

Transfer Students or Readmission Students. Students transferring to ASU may apply beginning in March for spring semester and July the year before a fall semester. Priority dates for transfer and readmission students are December 1 for spring semester, May 1 for summer sessions, and June 1 for fall semester. Professional programs are competitive and require a program application in addition to the application for admission to ASU. Professional programs also have specific prerequisite requirements and specific application deadlines.

International Students. International students must have all application materials on file by October 1 for spring semester and May 1 for fall semester. ASU does not accept applications from international students for summer sessions. International students should read the application procedures and admission requirements; see "International Student Admissions," page 72, or access the Web site at www.asu.edu/admissions/international.

Official Transcripts. Applicants are responsible for requesting transcripts from each educational institution attended. Official transcripts must be mailed or sent electronically directly to Undergraduate Admissions by the records office of the issuing institution(s). ASU does not accept transcripts sent or carried by hand by the applicants themselves or transmitted by fax. High school transcripts must show GPA and date of graduation. ASU requires an English translation of all foreign language transcripts.

Applicants who have completed an AGECE or an associate's or higher degree need not submit high school transcripts unless the application is being submitted to the Ira A. Fulton School of Engineering or the Walter Cronkite School of Journalism and Mass Communication.

ACT or SAT. A report of test scores should be sent to Undergraduate Admissions directly from ACT or The Educational Testing Services.

Scores may be used to meet university admission requirements and determine English placement. While an AGECE or an associate's degree is used to meet university admission requirements, test scores may be used to determine eligibility for admission to the Ira A. Fulton School of Engineering or the Walter Cronkite School of Journalism and Mass Communication. Students applying to the W. P. Carey School of Business are not considered for admission without ACT or SAT scores.

Undergraduate Admissions may investigate any test score that is inconsistent with a student's academic record or previous scores.

Mailing Address. The mailing address for applicants is

UNDERGRADUATE ADMISSIONS
ARIZONA STATE UNIVERSITY
PO BOX 870112
TEMPE AZ 85287-0112

Admission Before Receipt of Final Transcript. Admission may be granted to high school seniors who submit a six-semester or seven-semester transcript that shows academic quality or rank in class in keeping with admission standards and who complete the steps in the undergraduate admission procedures. Admission is official when verification of high school graduation showing the final GPA and the date of graduation has been received in the mail by Undergraduate Admissions directly from the high school. Final transcripts must be received a minimum of 45 days in advance of the start of the semester. An admission may be canceled if the final verification shows that the applicant has not met the university requirements for admission.

Applicants enrolled in other colleges and universities may be considered for admission on the basis of meeting all admission requirements, except for a final transcript of work in progress. This final transcript must be sent to Undergraduate Admissions directly from the issuing institution immediately after the work in progress has been completed. Transcripts carried by hand are not accepted. *Admission is*

UNDERGRADUATE ENROLLMENT

Fall 2007–Spring 2008 Admission Requirements

	Applicants with No College Credit		Applicants with College Credit	
	Arizona Residents	Nonresidents	Arizona Residents	Nonresidents
Graduation requirement	Must be a high school graduate	Must be a high school graduate	Must be a high school graduate <i>or</i> Have completed an Arizona General Education Curriculum (AGEC) or an associate's or higher degree	Must be a high school graduate <i>or</i> Have completed an Arizona General Education Curriculum (AGEC) or an associate's or higher degree
High school aptitude requirement	Meet class rank <i>or</i> test score <i>or</i> GPA Class rank—top 25% of the high school graduating class Applicants in the top 26 to 50% of their graduating class may be admitted with conditions. <i>or</i> ACT Composite—22 <i>or</i> SAT Reasoning—1040 <i>or</i> GPA—3.00 (4.00 = A) in competency courses <i>Applicants with a 2.50 to 2.99 GPA in competency courses may be admitted with conditions.</i>	Meet class rank <i>or</i> test score <i>or</i> GPA Class rank—top 25% of the high school graduating class Applicants in the top 26 to 50% of their graduating class may be admitted with conditions. <i>or</i> ACT Composite—24 <i>or</i> SAT Reasoning—1110 <i>or</i> GPA—3.00 (4.00 = A) in competency courses <i>Applicants with a 2.50 to 2.99 GPA in competency courses may be admitted with conditions.</i>	Meet class rank <i>or</i> test score <i>or</i> GPA Applicants who have 24 or more transferable college semester credits and have graduated from high school in a calendar year before their planned year of enrollment at ASU do not need to meet high school aptitude requirements. Class rank—top half of the high school graduating class Applicants in the top 26 to 50% of their graduating class may be admitted with conditions. <i>or</i> ACT Composite—22 <i>or</i> SAT Reasoning—1040 <i>or</i> GPA—2.50 (4.00 = A) in competency courses <i>Applicants with a 2.50 to 2.99 GPA in competency courses may be admitted with conditions.</i>	Meet class rank <i>or</i> test score <i>or</i> GPA Applicants who have 24 or more transferable college semester credits and have graduated from high school in a calendar year before their planned year of enrollment at ASU do not need to meet high school aptitude requirements. Class rank—top 25% of the high school graduating class Applicants in the top 26 to 50% of their graduating class may be admitted with conditions. <i>or</i> ACT Composite—24 <i>or</i> SAT Reasoning—1110 <i>or</i> GPA—3.00 (4.00 = A) in competency courses <i>Applicants with a 2.50 to 2.99 GPA in competency courses may be admitted with conditions.</i>
College aptitude requirement	Does not apply	Does not apply	2.00 cumulative GPA (4.00 = A) Many programs have higher GPA requirements for admission to their professional programs. See departments for details.	2.50 cumulative GPA (4.00 = A) <i>Applicants with a cumulative 2.00 to 2.49 GPA may be admitted with conditions.</i> Many programs have higher GPA requirements for admission to their professional programs. See departments for details.
Competency requirements	See the "Competency Requirements" table, page 69.	See the "Competency Requirements" table, page 69.	See the "Competency Requirements" table, page 69.	See the "Competency Requirements" table, page 69.

Competency Requirements

	High School Courses	Test Scores	College Courses
English	(minimum 2.00 GPA) Four years high school English composition/literature-based courses	or ACT English—21 or higher SAT Reasoning Critical Reading—530 or higher	or One transferable three-semester-hour college-level course in English composition
Mathematics	(minimum 2.00 GPA) Four years, including algebra I, one year of geometry, algebra II, and one year for which algebra II is a prerequisite	or ACT Math—24 or higher SAT Reasoning Math—540 or higher	or One transferable three-semester-hour college-level course in mathematics for which algebra II is a prerequisite
Laboratory science	(minimum 2.00 GPA) Three years high school courses, including three of the following: biology chemistry earth science integrated sciences physics An advanced-level course may be substituted for one subject area.	or Two years of high school lab science (see subjects at left) plus minimum SAT II subject test score on one of the following: Biology Achievement—590 Chemistry Achievement—600 Physics Achievement—620 ACT Science Reasoning—20 The test score may not be from any subject from which high school credit is earned.	or Three transferable four-semester-hour college-level laboratory science courses in different subject areas
Social science	(minimum 2.00 GPA) Complete A and B: A. One year high school American history B. One year high school social science (e.g., anthropology, European history, geography, government, world history)	or Complete A and B: A. Minimum SAT Subject Test score on American History and Social Studies Achievement—560 B. Minimum SAT Subject Test score on World History Achievement—580	or Complete A and B: A. One transferable three semester-hour college-level American history course B. One transferable three-semester-hour college-level social science course
Foreign language	(minimum 2.00 GPA) Two years of the same foreign language	or not applicable	or Two transferable three- or four-semester-hour college-level courses in the same foreign language
Fine arts	(minimum 2.00 GPA) One unit or a combination of two semesters of fine arts	or not applicable	or One transferable three-semester-hour college-level fine arts course

official only after the final transcript has been received showing that the applicant has met the university admission requirements. In the event the applicant does not qualify or has falsified application documents, admission and registration are canceled, and any registration fees paid are returned according to university refund policies.

Undergraduate Admission Requirements

The Arizona Board of Regents establishes undergraduate admission standards for the university. Colleges, schools, divisions, and departments within the university may establish stricter standards. For more information, access the Web site at www.asu.edu/admissions/howtoapply.

To be eligible for admission to ASU, applicants must meet the graduation, aptitude, and competency requirements as shown in the “Fall 2007–Spring 2008 Admission Requirements” table, page 68, and the “Competency Requirements” table, on this page.

For information about international student admission, see “International Students,” page 67.

Competency Requirements

Competencies may be met with high school courses or acceptable test scores or transferable college courses. See the “Competency Requirements” table, on this page. Applicants with a maximum of one deficiency in no more than two competency areas, provided the areas are not both mathematics and laboratory science, will be considered for admission. Applicants who have completed an Arizona General Education Curriculum (AGEC) or an associate’s or higher degree at the time of initial enrollment are not required to meet competency requirements for admission to the University, but will be required to meet competency requirements for some majors.

UNDERGRADUATE ENROLLMENT

ASU College/School Admission Requirements for Freshman and Transfer Applicants

Some ASU colleges/schools have established admission requirements beyond ASU's undergraduate admission requirements and professional program admission standards.

This information is for domestic freshman and transfer applicants; international students should read requirements at www.asu.edu/admissions/international (choose *Admission and Application*).

Students who do not meet admission requirements for the chosen major(s) [students may select 3 majors from more than 140 undergraduate degree programs on their applications for admission] but who meet general university admission requirements will be admitted as Exploratory majors in ASU's University College.

IRA A. FULTON SCHOOL OF ENGINEERING

Freshman Admission Requirements

Professional Program Status. To qualify for the professional program, the student must

1. earn a SAT Reasoning score of 1400 or a 32 on the ACT,
2. have no math or science competency deficiencies, and
3. earn a 3.50 or higher GPA in college transfer courses taken before high school graduation.

Preprofessional Program Status. To qualify for the preprofessional program, the student must

1. have no math or science competency deficiencies,
2. earn a 1140 SAT Reasoning or 24 ACT score or 3.00 ABOR (competency courses) GPA or be in the top 25 percent of his or her high school class, and
3. earn a 3.00 GPA in college transfer courses taken before high school graduation.

To be admitted to the Professional Program from the Preprofessional program, freshman applicants must meet performance levels in a set of required skill courses as set by each department in the school.

Transfer Admission Requirements

Preprofessional Program Status. To qualify for the preprofessional program, the student must

1. have at least 24 transferable college credit hours taken after high school graduation,
2. earn a 3.00 cumulative transfer GPA, and
3. have no math or science competency deficiencies.

Students with fewer than 24 transferable college credit hours must also meet Freshman Admission Requirements for the Preprofessional Program listed above.

To be admitted to the Professional Program from the Preprofessional program, transfer applicants must meet performance levels in a set of required skill courses as set by each department in the school.

Transfer applicants will not be admitted directly into the Professional Program.

For more information, access the Web site at www.fulton.asu.edu/fulton/transfers.

W. P. CAREY SCHOOL OF BUSINESS

Freshmen Admission Requirements

Professional Program Status. To qualify for professional program status, the student must

1. earn a 3.6 ABOR (competency courses) GPA,
2. earn a 1250 SAT Reasoning or 28 ACT score,
3. have no English or math competency deficiencies, and
4. earn a 3.50 transfer GPA in college courses taken before high school graduation.

Preprofessional Program Status. To qualify for preprofessional program status, the student must

1. earn a 3.5 ABOR (competency courses) GPA or be in the top 25 percent of their high school class,
2. earn a 1200 SAT Reasoning or 25 ACT score,
3. have no math or science competency deficiencies, and
4. earn a 3.00 transfer GPA in college courses taken before high school graduation.

Students must apply to the Professional Program in the sophomore year for junior/senior-level courses. To be admitted to the major of first preference in the Professional Program, students must achieve a 3.50 cumulative ASU GPA and a 3.50 skill GPA.

Prebusiness Program Status. To qualify for the preprofessional program, the student must

1. meet the ASU general freshman Admission Requirements and
2. submit an SAT Reasoning or ACT score.

Students must apply to the Professional Program in the sophomore year for the junior/senior-level courses.

Transfer Admission Requirements

Prebusiness Program Status. With 30 or more transferable college credits earned after high school graduation the student must

1. have a 3.00 transfer GPA and
2. submit a 1040 SAT Reasoning or 22 ACT score.

With fewer than 30 transferable college credits earned after high school graduation the student must

1. have a 3.00 transfer GPA,
2. submit a 1040 SAT Reasoning or 22 ACT score, and
3. meet freshman admission requirements.

Transfer students must apply to the Professional Program for the junior/senior-level courses.

For more information, access the Web site at wpcarey.asu.edu.

WALTER CRONKITE SCHOOL OF JOURNALISM AND MASS COMMUNICATION

Freshman Admission Requirements

Preprofessional Program Status. To qualify for the professional program, the student must

1. earn a 3.00 ABOR GPA,
2. have no English competency deficiencies,
3. meet one of the following:
 - (a) top 25 percent of the high school class or
 - (b) 1040 SAT Reasoning or 22 ACT, and
4. earn a 2.50 or higher GPA in college transfer courses taken before high school graduation.

Freshman applicants must apply to the Professional Program (junior/senior level) when they have completed a minimum of 56 credit hours. The committee considers a variety of criteria, including major and cumulative GPA, media experience at the college level, writing ability, and commitment to the field.

Transfer Admission Requirements

Preprofessional Program Status. To qualify for the preprofessional program, the student must have 12 transferable college credit hours. Students with fewer than 12 transferable college credit hours must also meet Freshmen Admission Requirements above, and

1. earn a 2.50 cumulative transfer GPA and
2. have no English competency deficiencies.

Transfer applicants must apply to the Professional Program (junior/senior level) when they have completed a minimum of 56 credit hours. The committee considers a variety of criteria, including major and cumulative GPA, media experience at the college level, writing ability, and commitment to the field.

For more information, access the Web site at cronkite.asu.edu.

ADMISSION APPEAL PROCEDURE

An applicant who does not meet the specific admission requirements may file a letter of appeal and three letters of recommendation with the Undergraduate Admissions Board:

UNDERGRADUATE ADMISSIONS BOARD
 ARIZONA STATE UNIVERSITY
 PO BOX 870112
 TEMPE AZ 85287-0112

Applicants to a degree program at the West campus may file their appeal letter and letters of recommendation with:

ADMISSIONS APPEALS COMMITTEE
 ADMISSIONS SERVICES, MC 0250
 PO BOX 37100
 PHOENIX AZ 85069-7100

The decision of the board or committee is final, and any conditions set by the board or committee for future admission supersede all other admission criteria or exceptions.

The applicant must be able to meet at least one of the following criteria to be considered for appeal:

1. an upward grade trend during the high school career or an upward grade trend during the senior year;
2. positive recommendations from secondary school administrators, faculty, or counselors based on considerations such as academic potential, work experience, and leadership ability; or
3. completion of at least 12 semester hours of college-level academic studies with a minimum 2.00 GPA.

TRANSFER CREDIT

Credit is awarded for traditional course work successfully completed at institutions of higher learning as indicated by ASU and the Arizona Board of Regents. *Whether the specific credits can be applied toward a degree depends on the requirements of the department, division, school, or college in which the student is enrolled.* There are several qualifications:

1. Transfer credit is not given for courses in which the student has earned a grade below "C" (2.00).
2. While some courses successfully completed but evaluated on nontraditional grading systems (e.g., pass/fail) may be acceptable for transfer, colleges in the university may not accept such credits to fulfill graduation requirements.
3. Grades and honor points earned at other colleges and universities are considered for admission but are not included in computing the student's cumulative GPA at ASU.

The following types of credits cannot be transferred to ASU:

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., governmental agencies, corporations, industrial firms); and
4. credits awarded by postsecondary institutions for noncredit courses, workshops, and seminars offered by other postsecondary institutions as part of continuing education programs.

Acceptable academic credits earned at other institutions that are based on a different unit of credit than the one prescribed by the Arizona Board of Regents are subject to conversion before being transferred to ASU. Once a transfer course equivalency is determined, it stands unless the student changes majors and the course is required by the new major.

Students who feel they have been unjustly denied credit for transfer courses they have taken may appeal to the standards committee of the college in which they have enrolled. This procedure does not apply to community college transfer of credit greater than the 64-semester-hour maximum. The decision of the committee is final.

UNDERGRADUATE ENROLLMENT

Veterans Exception. By Arizona statute, no failing grades received by a veteran at an Arizona university or community college before military service may be considered when determining admissibility. This exception applies only to veterans who

1. are honorably discharged;
2. have served in the armed forces of the United States for a minimum of two years; and
3. have previously enrolled at a university or community college in Arizona.

Military service records must be submitted, including form DD 214.

Community Colleges. A maximum of 64 semester hours are accepted as lower-division credit when transferred from community, junior, or two-year colleges.

Students Attending Arizona Community Colleges. To determine the equivalency of courses offered by Arizona public community colleges and courses offered at ASU, a student should refer to the *Course Applicability System* in consultation with an academic advisor. For more information, access the Web site at az.transfer.org/cas/students.

The *Course Applicability System* addresses the acceptability of a course, not its applicability to any specific major. Community college students who plan to transfer to ASU at the end of their first or second years are strongly advised to follow the ASU transfer guides when taking courses to meet the requirements of the curriculum they select. ASU transfer guides are available on the Web at www.asu.edu/admissions/transfer. Provided college attendance has been continuous, students are permitted to follow the degree requirements specified in the ASU catalog in effect at the time they began Arizona community college work. See "Guidelines for Determination of Catalog Year," page 89.

Arizona General Education Curriculum (AGEC)

The Arizona public community colleges and universities have agreed upon a common structure for a general education core. This curriculum provides students attending any Arizona public community college with the opportunity to build a general education program that is transferable to any other state institution without loss of credit. This common agreement is called the Arizona General Education Curriculum (AGEC).

The AGEC is composed of 35 semester hours of lower-division general education course work in which a student may prepare for transfer.

The AGEC has three forms: AGEC-A, AGEC-B, and AGEC-S. Refer to www.az.transfer.org/cas/atass/student/agec.html for a detailed description of each AGEC.

Community colleges are responsible for certifying the date of completion of the AGEC on the official institutional transcripts.

Completion of the appropriate AGEC will fulfill university lower-division general education requirements of the baccalaureate degree with which the AGEC articulates but may not apply to degrees articulated with the Transfer Guide Pathway TG-XR. Students completing the AGEC will still be required to fulfill lower-division program requirements and prerequisites within their college and

major/minor area of study. To complete a degree program most efficiently, students should select courses that concurrently satisfy AGEC and major requirements.

Completion of any AGEC guarantees admission to the university provided that a GPA of 2.00 (for Arizona residents) or 2.50 (for nonresidents) has been achieved. AGEC completion, however, does not guarantee admission to any specific university program. Many majors (e.g., architecture, engineering, business, fine/creative arts, or health professions) have significant prerequisites and/or program requirements that must be completed before a student may be admitted to upper-division course work. Community college students who are undecided about which of the universities they plan to attend or what program of study they intend to pursue are advised to explore educational options while they complete the AGEC. In all cases, students have the responsibility for selecting general education course work that is relevant to the requirements of their intended major and degree.

Students who complete both the AGEC and an approved associate's degree will be assigned junior-class standing by the state universities. Junior-class standing is based on the number of semester credits a student has earned and does not necessarily indicate the remaining number of semester credits needed to complete degree requirements. Course prerequisites, major requirements, and upper-division requirements continue to be specified by each university. Appropriate sequencing of courses and timely completion of course prerequisites are essential to ensure efficient progress toward a baccalaureate degree. Students who have identified the university they plan to attend and/or a major area of study are advised to fulfill requirements and prerequisites identified by these programs through transfer guides and/or curriculum check sheets provided by the state universities. The AGEC does not replace articulation agreements developed to enhance the transfer process between specific institutions, e.g., Associate Transfer Partnership Degrees (ATP). Nor does the AGEC eliminate the possibility that students who have identified the university they plan to attend and/or a major area of study will follow transfer guides provided by the state universities.

International Student Admissions

To comply with U.S. government regulations, any student who plans to attend ASU on an F-1 or J-1 visa must

1. have a minimum GPA of 3.00 (4.00 = A) from secondary school course work if a freshman applicant, or have a minimum GPA of 2.50 (4.00 = A) from college or university course work if a transfer applicant (although the Ira A. Fulton School of Engineering requires a minimum GPA of 3.00);
2. meet basic competency requirements if he or she attended four years of high school in the United States;
3. submit a financial statement not more than six months old from a financial institution assuring adequate resources to support himself or herself while in residence at the university;
4. have all required admissions materials and credentials reach Undergraduate Admissions by May 1 if

applying for the fall semester or October 1 if applying for the spring semester (an English translation of all foreign language documents is required);

5. pay a nonrefundable application fee of \$50 in U.S. funds; and
6. meet all appropriate immigration standards and requirements.

Credit from a Foreign Institution. Transfer credits or advanced standing is granted for academic course work completed at foreign tertiary institutions that are either recognized by the home government/Ministry of Education as a degree-awarding institution or attached to a regionally accredited U.S. college or university as a Study Abroad Program. No credit is awarded for English composition courses completed at foreign institutions (credit may be awarded at the discretion of ASU when the credit was completed in a country whose native language is English). There are no advanced credits for the international affiliation programs overseas unless they comply with this general policy. For more information, call Undergraduate Admissions at 480/965-2688.

Nondegree International Applicants. All students with F-1 and J-1 visas must maintain full-time status while studying in the United States. Undergraduate full-time status is defined as a minimum of 12 semester hours. However, students with F-1 and J-1 visas may be permitted to take a maximum of eight semester hours at ASU as a nondegree student while maintaining full-time status at other higher education institutions or in the American English and Culture Program (AECP) at ASU. Approval by the responsible office at the other institution and/or AECP is required to ensure that the student maintains full-time status in compliance with applicable U.S. laws and regulations.

TOEFL. Applicants whose native language is not English (identified by the U.S. Department of State Bureau of Public Affairs) must provide evidence of English language proficiency as indicated by acceptable scores on the Test of English as a Foreign Language (TOEFL) as follows:

The TOEFL requirement for general admission (preprofessional) to the university is 500 (paper-based) or 173 (computer-based). The TOEFL requirement for admission to the preprofessional programs in the Ira A. Fulton School of Engineering and the College of Nursing is 550 (paper-based) or 213 (computer-based).

The following exceptions apply to the TOEFL requirement:

1. Applicants who have earned a bachelor's degree from a regionally accredited college or university in the United States are exempt from the TOEFL.
2. Applicants who have completed 48 transferable semester hours at a U.S. college or university—including two semesters (six semester hours) of freshman composition that satisfy the ASU First-Year Composition requirement—with a cumulative GPA of 2.50 or higher are exempt from the TOEFL requirement.
3. Applicants who have completed four years of high school in a U.S. high school may be admitted to

ASU without a TOEFL score but are subject to competency and aptitude requirements.

4. Applicants who have completed their junior and senior years of high school in a U.S. high school may be admitted with a minimum SAT verbal score of 550 or an ACT English score of 23 in lieu of a TOEFL score.
5. Applicants who have completed Advanced 2 Level of the American English and Culture Program are exempt from the TOEFL requirement.

American English and Culture Program

The American English and Culture Program (AECP) features an intensive course of study designed for adult international students who desire to become proficient in English as a second language for academic, professional, or personal reasons. Inquiries about the curriculum, fee schedule, and other topics should be addressed to

AMERICAN ENGLISH AND CULTURE PROGRAM
ARIZONA STATE UNIVERSITY
PO BOX 873504
TEMPE AZ 85287-3504

Acceptance into the AECP is separate from admission to the university. For more information, see "English as a Second Language," page 137, call 480/965-2376, or access www.asu.edu/esl on the Web.

Applicants with Disabilities

Some classroom accommodations, such as Braille, audio tapes, interpreting services, enlarged print, and lab material conversions, may require an extended preparation time (i.e., one semester). For this reason, applicants with disabilities are encouraged to contact Disability Resource Center (DRC) upon application to the university to request information regarding disability documentation/eligibility requirements and deadlines to ensure accommodations for the beginning of the semester. (If students miss DRC deadlines, DRC attempts to provide, but cannot guarantee, requested accommodations. Effective alternatives may be necessary.) *Disability identification to DRC is confidential and cannot affect eligibility for admission.*

Students applying to the Downtown Phoenix, Tempe, or Polytechnic campuses should call 480/965-1234 (voice) or 480/965-9000 (TTY). For more information, access the Web site at www.asu.edu/drc, or write

DISABILITY RESOURCE CENTER
ARIZONA STATE UNIVERSITY
PO BOX 873202
TEMPE AZ 85287-3202

Students applying to West campus should call 602/543-8145 (voice) or 602/543-4327 (TDD). For more information, access the Web site at www.west.asu.edu/drc, or write

DISABILITY RESOURCE CENTER
ARIZONA STATE UNIVERSITY
PO BOX 37100, MC 1050
PHOENIX AZ 85069-7100

UNDERGRADUATE ENROLLMENT

Admission of Undergraduate Nondegree Applicants

Any high school graduate is invited to enroll for eight or fewer semester hours per semester of undergraduate course work as a nondegree student. Students currently enrolled in high school and persons under the age of 18 may be admitted as nondegree students by submitting official ACT or SAT scores that meet the high school aptitude requirements of the university. Persons admitted as nondegree students for a specific year and term must remain nondegree until the next semester.

Nondegree applicants must complete an Undergraduate Admissions Application at www.asu.edu/apply. Arizona residents must submit a nonrefundable \$25 application fee, and nonresidents must submit a nonrefundable \$50 application fee. Applicants who are not high school graduates or who are younger than 18 years of age must also submit ACT or SAT scores.

No more than 15 hours of completed nondegree work may be applied to a degree program. A nondegree student who decides to work toward a bachelor's degree must *apply for admission to a degree program* with Undergraduate Admissions and meet normal admission requirements.

Once registered in a regular degree program, a student is not permitted to register again in a nondegree status. Nondegree students are not eligible to receive most types of financial aid, nor are they eligible to receive certain benefits, such as veteran benefits.

Steps from Admission to Registration

Certificate of Admission. After being admitted, students receive a Certificate of Admission, an Immunization Verification form, and information about orientation. International students additionally receive a Certificate of Eligibility (Form I-20 or DS-2019), which enables them to apply for the appropriate visa.

Upon receipt, students should check their admission information for accuracy and report any errors or changes. For Polytechnic and Tempe campuses, call 480/965-7788. For West campus, call 602/543-8203.

Freshman Orientation. University orientation programs for new students and their parents are provided at numerous times during the year, including the beginning of each semester. Most orientation programs include academic advising, campus tours, special events, and an introduction to university resources and procedures. Some programs offer sessions for parents. Newly admitted students are sent information preceding each orientation program. Students are expected to attend orientation activities. For more information, access the Web site at www.asu.edu/admissions/orientation.

Transfer Orientation. Transfer students receive information about orientation via mail.

Immunization Requirements. Every newly admitted student born after December 31, 1956, must provide proof of measles/rubella immunity to the Campus Health Service. *Students are not permitted to register or live in any ASU residence hall until proof of immunity to measles/rubella is on file with the Campus Health Service. Students who do not*

provide proof of immunity will not be permitted to live in any ASU residence hall, or attend classes on any ASU campus.

The following proof of measles/rubella immunity is considered adequate: (1) two vaccinations of MMR (measles, mumps, rubella), at least one of which must have been given after December 31, 1979; or (2) a copy of laboratory test results that show immunity to both measles and rubella.

Measles/rubella immunity proof can be faxed to the Campus Health Service at 480/965-8914. Verification that the Campus Health Service received a student's proof of measles/rubella immunity can be confirmed by going to www.asu.edu/interactive on the Web two working days after the information has been faxed to the Campus Health Service.

In addition, it is recommended that students also be immunized against mumps, tetanus, hepatitis-B, diphtheria, and meningitis. Special populations may need other vaccines. For more information on measles requirements, visit the Campus Health Service's Web site at www.asu.edu/studentaffairs/health.

International Student Enrollment. International students must complete these additional steps.

Student Health Insurance. All F-1 or J-1 visa students must have health and accident insurance through ASU. The cost for insurance is automatically added to their registration bill. *No privately acquired insurance is accepted in place of the ASU insurance.* However, students who have health insurance through their government or sponsoring agency may qualify for an insurance waiver if that coverage has been preapproved by the university. No waivers may be granted after the first two weeks of classes. To find out if their sponsor is on the preapproved list, sponsored students and others who fall into this category are encouraged to contact the Campus Health Service at 480/965-2411 or visit the Campus Health Service Web site at www.asu.edu/studentaffairs/health.

All international students must report to the International Student Office in Student Life upon arrival on campus.

Credit by Examination

No more than 60 hours of credit are awarded for any or all programs, including ASU comprehensive and proficiency examinations. Credit will not be awarded for any course in which the student has been given credit from any educational institution. Credit will not be granted for a course taken at an educational institution after credit by examination has been awarded. Credit may not be received for a lower-level or prerequisite course when credit has already been received in a higher-level course within the same field. In these categories, only credit earned by comprehensive examination counts toward the resident credit requirement for graduation.

Advanced Placement. Students who have taken an advanced placement (AP) course of the College Entrance Examination Board (CEEB) in their secondary school and who have taken an AP Examination of the CEEB may receive university credit. No credit is given for any examination with a score of 2 or 1. There is no limit to the number

of AP credits that can be used to meet the General Studies requirement, including the requirements in natural sciences (SQ and SG), and literacy and critical inquiry (L).

When the scores are received by the university directly from the CEEB, credit is awarded as shown in the "Advanced Placement Credit" table, page 78.

College-Level Examination Program (CLEP). Students who have taken a College-Level Examination of the College Entrance Examination Board may receive university credit. The table of CLEP credit applies to all students enrolled in the university for the first time in August 1975 and any student enrolling thereafter; see the "CLEP Credit" table, page 76. CLEP examination credit is *not* given where it duplicates credit previously earned by the student at the university or accepted by the university for work done elsewhere. All examinations are given monthly by University Testing Services.

The General Studies requirement in natural science (SQ and SG) and literacy and critical inquiry (L) are not satisfied by CLEP. There is no limit to the number of CLEP credits that can be used to fulfill the other parts of the General Studies requirement. (See the "General Studies Courses" table, page 96.) A student who has received ASU credit for a course due to Special Programs credit may not duplicate the credit by enrolling in the same class for credit at ASU or transferring it to another institution.

Subject Examinations. To obtain credit or placement for all subject exams except English, French, German, and Spanish, a student must receive a score of 50 (Computer Based Training [CBT] scale) or higher. To obtain credit for English Composition with Essay, a student must receive a standard score of 610 (1978 scale), 500 (1986 scale), or 50 (CBT scale). For test scores for French, German, and Spanish, see the "CLEP Credit" table, page 76.

All equivalency is subject to future review and possible catalog change. For more information, call University Testing Services at 480/965-7146 or stop by EDB 301.

DSST. Students who have taken a DSST (DANTES [Defense Activity for Nontraditional Education Support] Subject Standardized Test) may receive university credit. Credit is awarded for score results at or above the American Council on Education's recommended score if the subject examination is applicable to a program of study at ASU or may be assigned elective credit. To receive credit, a transcript showing the DSST results must be received by ASU directly from the Educational Testing Service.

International Baccalaureate (IB) Diploma/Certificate. Students who present an International Baccalaureate Diploma/Certificate may qualify for university credit, depending on the level of the examination and the grade received. Arizona State University grants credit for higher-level courses only. A grade of 5 qualifies the student to receive credit for up to two introductory courses while a grade of 4 qualifies a student to receive credit for one introductory course. No credit is awarded for English as a Second Language (English B). Credit is awarded according to the "International Baccalaureate Diploma/Certificate Credit" table, page 77.

Comprehensive Examinations. A comprehensive examination is intended to permit a student to establish academic credit in a field in which the student has gained experience or competence equivalent to an established university course. Applications are given only for courses listed in the current catalog and only for courses in which a comprehensive examination can serve as a satisfactory measure of accomplishment.

A number of restrictions apply. The student must be enrolled at ASU with *no more than 100 semester hours of credit earned* (includes credits earned at ASU, credits transferred to ASU from another institution, and all credits earned by examination). The examinations must be taken during the first two semesters in residence in a degree program at the university.

The decision on the suitability of course material for a comprehensive examination, the development of a comprehensive examination, and the administration of an examination are strictly departmental functions. An application is for one course only. The student should complete an application form with the number, title, and number of semester hours for the course. When completed, the application must be approved by the student's advisor and the chair of the department responsible for offering the course.

The student must then pay the stated fee for such examinations at Cashiering Services. The receipt must be taken to the departmental office.

The examination is prepared by the instructor who normally conducts the course, and it is comprehensive in nature and scope. The instructor and other experts designated by the chair grade the examination, using letter grades "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "D," or "E." If the grade is "C" or higher, a mark of "Y" is entered on the student's permanent record; otherwise, no entry is made. Credit by examination is indicated as such on the record. The student is notified by mail of the result of the examination. In cases of failure ("D" or "E"), the student is not given an opportunity to repeat the examination.

A student pursuing a second baccalaureate degree may not receive credit by comprehensive examination, but with prior approval of the college, the student may use the examination to waive a course requirement if a grade of "C" or higher is earned.

Proficiency Examinations. Proficiency examinations and auditions are given

1. to waive a course requirement;
2. to validate certain transfer credits in professional programs; and
3. to determine a student's ability in a field where competence is an important consideration.

Detailed information may be obtained from the dean's office of the college in which the student is registered.

UNIVERSITY TESTING REQUIREMENTS

All new, transfer, or readmitted undergraduate students who plan to enroll for seven or more semester hours must meet one of the following testing requirements. *Students who fail to meet at least one of these requirements are not allowed to register for any course the following semester:*

UNDERGRADUATE ENROLLMENT

Examinations*	CLEP Credit	
	Semester Hours	Equivalency
American Government	3	POS 110
American Literature	3	Elective credit
Analyzing and Interpreting Literature	3	Elective credit
Biology	8	BIO 187, 188
Calculus	3	MAT 260
Chemistry	8	CHM 113, 116
College Algebra	3	MAT 117
College Mathematics	3	MAT 142
English Composition	0	No credit
English Composition with Essay	0	Qualifies for ENG 105
English Literature	3	Elective credit
French Language	4	FRE 101 (Students must score 50–54)
	8	FRE 101, 102 (Students must score 55–61)
	12	FRE 101, 102, 201 (Students must score 62–65)
	16	FRE 101, 102, 201, 202 (Students must score 66 or higher)
Freshman College Composition	0	No credit
German Language	4	GER 101 (Students must score 39–45)
	8	GER 101, 102 (Students must score 46–50)
	12	GER 101, 102, 201 (Students must score 51–59)
	16	GER 101, 102, 201, 202 (Students must score 60 or higher)
History of the United States I—Early Colonization to 1877	3	HST 109
History of the United States II—1865 to the Present	3	HST 110
Human Growth and Development	0	No credit
Humanities	0	No credit
Information Systems and Computer Applications	3	Elective credit
Introduction to Educational Psychology	0	No credit
Introductory Business Law	3	Elective credit
Introductory Psychology	3	PGS 101
Introductory Sociology	3	SOC 101
Natural Sciences	8	Elective credit
Precalculus (replaces College Algebra/Trigonometry)	3	MAT 170
Principles of Accounting	6	Elective credit
Principles of Macroeconomics	3	ECN 211
Principles of Management	0	No credit
Principles of Marketing	0	No credit
Principles of Microeconomics	3	ECN 212
Social Sciences and History	6	Elective credit
Spanish Language	4	SPA 101 (Students must score 50–54.)
	8	SPA 101, 102 (Students must score 55–65.)
	12	SPA 101, 102, 201 (Students must score 66–67.)
	16	SPA 101, 102, 201, 202 (Students must score 68 or higher.)
Western Civilization I—Ancient Near East to 1648	3	HST 102 or 103
Western Civilization II—1648 to the Present	3	HST 104

* All test scores are posted initially as Tempe campus course equivalents and will be honored at any ASU campus the student may attend.

International Baccalaureate Diploma/Certificate Credit

Examination	Score	Semester Hours	Equivalency
Art/Design	7, 6, or 5	6	ART 111, 112
	4	3	ART 112
Biology	7, 6, or 5	8	BIO 187, 188
	4	4	BIO 187
Chemistry	7, 6, or 5	9	CHM 113, 115
	4	4	CHM 113
Economics	7, 6, or 5	6	ECN 211, 212
	4	3	ECN 211
English A	7, 6, or 5	6	ENG 101, 114
	4	3	ENG 114
English B	No credit	0	None
Foreign Language A or B*	7, 6, or 5	8	Foreign language 101, 102
	4	4	Foreign language 101
Geography	7, 6, 5, or 4	3	GCU 102
History—American	7, 6, or 5	6	HST 109, 110
	4	3	HST 109
History—East and Southeast and Oceania	7, 6, or 5	6	HST 107, 240
	4	3	HST 107
History—European	7, 6, or 5	6	HST 103, 104
	4	3	HST 103
Mathematics	7, 6, 5, or 4	4	MAT 270
Music	7, 6, 5, or 4	3	MTC 125
Physics	7, 6, or 5	8	PHY 111, 112, 113, 114
	4	4	PHY 111, 113
Psychology	7, 6, 5, or 4	3	PGS 101
Social and Cultural Anthropology	7, 6, 5, or 4	3	ASB 102
Theatre—Introduction	7, 6, 5, or 4	3	THE 100
Visual Arts	7, 6, or 5	6	ART 111, 112
	4	3	ART 112

* No credit is awarded if the language is the student's native language.

1. Take the ACT English or SAT verbal examination, and have scores submitted to ASU.
2. Receive a score of 4 or 5 for the advanced placement examination in English offered by the College Entrance Examination Board, and have scores submitted to ASU.
3. Take the CLEP general examination in English Composition with Essay, earning a score that qualifies for placement in ENG 105, and have scores submitted to ASU.
4. Have previously taken ENG 101, 102, 105, 107, or 108 at ASU; or have previously earned a grade of "Y"; or be currently enrolled in WAC 101 or 107 at ASU. If the course was taken before 1980, contact the Recording Section, in SSV 142, before registering for classes.
5. Transfer a course equivalent to ENG 101, 102, 105, 107, or 108 with a grade of "C" (2.00) or higher. An official transcript showing the grade must be received at ASU. If a student transfers an equivalent

- composition course from a public community college or university in Arizona, the equivalency is automatically posted, and the student need not take further action. A student transferring a composition course from any other college or university must have the course evaluated for equivalency. The student must take a copy of both the transfer transcript and the catalog description of the course to the Writing Programs Office, in LL 314 (480/965-3853). See "First-Year Composition Requirement," page 89, for more information.
6. International students from non-English-speaking countries must take ENG 107 (or WAC 107 followed by ENG 107 the second semester) in the first semester at ASU, unless they have taken and transferred an equivalent composition course from a college or university in the U.S. Such a course must be evaluated for equivalency by the Composition Office.

UNDERGRADUATE ENROLLMENT

Advanced Placement Credit

Examination*	Score	Semester Hours	Equivalency
Art—History	5 or 4	6	ARS 101, 102
	3	3	ARS 101 or 102
Art—Studio—Drawing	5	6	ART 111, 112
	4	3	ART 111
Art—Studio—2-D	5	6	ART 112, 194 ST: 2-D Design
	4	3	ART 112
Art—Studio—3-D	5	6	ART 115, 194 ST: 3-D Design
	4	3	ART 115
Biology	5 or 4	8	BIO 187, 188
	3	4	BIO 100
Chemistry	5 or 4	9	CHM 113, 115
	3	4	CHM 113
Computer Science A	5 or 4	3	CSE 110
Computer Science AB	5 or 4	6	CSE 110, 205
Economics—Introductory Macroeconomics	5 or 4	3	ECN 211
Economics—Introductory Microeconomics	5 or 4	3	ECN 212
English—Language and Composition	5 or 4	6	ENG 101, 114
English—Literature and Composition	5 or 4	6	ENG 101, 204
Environmental Science	5 or 4	3	PLB 322
French—Language	5	14	FRE 201, 202, 311, 312
	4	11	FRE 201, 202, 311
	3	8	FRE 201, 202
French—Literature	5	18	FRE 111, 201, 202, 321, 322
	4	12	FRE 111, 201, 202
	3	8	FRE 201, 202
Geography—Human	5, 4, or 3	3	GCU 102
German—Language	5	14	GER 201, 202, 311, 312
	4	11	GER 201, 202, 311
	3	8	GER 201, 202
History—American	5 or 4	6	HST 109 and 110
History—European	5 or 4	6	HST 103 and 104
History—World	5 or 4	3	HST 101
Latin—Language	5	16	LAT 101, 102, 201, 202
	4	12	LAT 101, 102, 201
	3	8	LAT 101, 102
Latin—Literature	5	16	LAT 101, 102, 201, 202
	4	12	LAT 101, 102, 201
	3	8	LAT 101, 102
Mathematics—Calculus AB	5, 4, or 3	4	MAT 270
Mathematics—Calculus BC	5 or 4	8	MAT 270, 271
	3	4	MAT 270
Music	5 or 4	3	MTC 125
Political Science—American Government and Politics	5 or 4	3	POS 110
Political Science—Comparative Government and Politics	5 or 4	3	POS 150
Psychology	5 or 4	3	PGS 101

* All test scores are posted initially as Tempe campus course equivalents and will be honored at any ASU campus the student may attend.

Advanced Placement Credit (continued)

Examination*	Score	Semester Hours	Equivalency
Spanish—Language	5	14	SPA 201, 202, 311, 312
	4	11	SPA 201, 202, 311
	3	8	SPA 201, 202
Spanish—Literature	5	15	SPA 111, 201, 202, 325
	4	12	SPA 111, 201, 202
	3	8	SPA 201, 202
Statistics	5, 4, or 3	3	STP 226

* All test scores are posted initially as Tempe campus course equivalents and will be honored at any ASU campus the student may attend.

Placement Examinations

English. Students who have not taken any composition courses are placed in First-Year Composition courses according to their scores on the ACT English or SAT critical reading tests.

Students who score 18 or below on the ACT English test or 460 or below on the SAT critical reading test must enroll in WAC 101, a basic writing course (see “Writing Across the Curriculum,” page 543). Students who score between 19 and 25 on the ACT English test or between 470 and 610 on the SAT critical reading test are eligible to enroll in ENG 101. Students who score 26 or higher on the ACT English test or 620 or higher on the SAT critical reading test may take ENG 105 in place of ENG 101 and 102. Students may qualify for ENG 105 by achieving appropriate scores on the CLEP General Examination in English Composition with Essay. For more information, go to University Testing Services, in EDB 301, access the Web site at www.asu.edu/uts, or call 480/965-7146.

Foreign Language. For information regarding foreign language placement testing, see “Foreign Language Requirement,” page 584 and “Foreign Language Placement,” page 585, and “Credit by Examination,” page 74.

Mathematics. Readiness examinations are required before registering for the following mathematics courses at ASU: MAT 106, 113, 117, 119, 142, 170, 210, and 270. For more information, visit the Department of Mathematics and Statistics undergraduate office in PS A211, or access the Web site at fym.la.asu.edu/placement.

Academic Advising

Effective academic advising of students is an essential aspect of the educational experience at ASU. The university is committed to providing quality advising to continuing, first-time, and transfer students. To achieve the highest-quality advising, students, faculty, and staff must work to form a partnership.

ASU academic advisors help students to

1. develop a suitable educational plan;
2. select appropriate courses;
3. interpret institutional requirements;

4. develop problem-solving and decision-making skills;
5. become independent learners; and
6. clarify career and life goals.

Advisors also

1. enhance student awareness of opportunities and services on campus;
2. assist students in evaluating their progress toward their educational goals;
3. refer students to institutional and community resources, including opportunities for research and internships;
4. promote and enhance the university’s recruiting and retention efforts;
5. engage in activities to keep themselves informed on issues that impact student success; and
6. support cultural diversity at the university.

Each college has advisors to assist students in developing programs of study, assessing educational goals, and understanding rules, procedures, and curriculum requirements. In some colleges, these advisors are faculty members. In others, they are full-time, professional advisors. Students often may seek academic and career advice from both faculty members and full-time advisors. Students are encouraged to take advantage of the skill and knowledge of the advising professionals available to them. Most new students and many continuing students must meet with an advisor as a condition of registration.

University College Academic Advising serves as a central advising, referral, and information facility for students. Emphasis is placed on advising first-time, prospective, transfer and visiting students, and students in transition, such as those changing majors and those who have not declared a major. For more information, visit University College Academic Advising in UASB 129, or call 480/965-4464.

Students are strongly encouraged to seek academic advising at the earliest possible time and to do so regularly throughout their academic careers, whether or not advising is mandatory in their particular programs. Access the online academic advising directory available on the Web at uc.asu.edu/advising/directory. For academic advising at the Polytechnic campus, see the “Academic Advising at the Polytechnic Campus” table, page 202. Tempe campus

UNDERGRADUATE ENROLLMENT

Academic Advising at Tempe Campus

College	Location	Telephone	Days	Hours ¹	Web Address
All colleges and campuses	—	—	—	—	uc.asu.edu/advising/directory
Barrett Honors College	MB C100L1	480/965-4033	Mon.–Fri.	8 A.M.–5 P.M. ²	honors.asu.edu
College of Design	ARCH 115	480/965-3584	Mon.–Fri.	8 A.M.–5 P.M.	www.asu.edu/caed
College of Education	EDB L1-13	480/965-5555	Mon.–Fri.	8 A.M.–5 P.M.	coe.asu.edu/oss
College of Law	LAW 120	480/965-6181	Mon.–Fri.	8 A.M.–5 P.M. ³	www.law.asu.edu
College of Liberal Arts and Sciences	FOUND 110	480/965-6506	Mon.–Fri.	8 A.M.–5 P.M.	clas.asu.edu
College of Nursing	Downtown	TBA	Mon.–Fri.	8 A.M.–5 P.M.	nursing.asu.edu
College of Public Programs	WILSN 203	480/965-1034	Mon.–Fri.	8:30 A.M.–5 P.M.	asu.edu/copp
Ira A. Fulton School of Engineering	ECG 109	480/965-1726 or 965-1750	Mon.–Fri.	8:00 A.M.–5 P.M. ^{2, 4}	www.fulton.asu.edu
Katherine K. Herberger College of Fine Arts	GHALL 116	480/965-4495	Mon.–Fri.	8 A.M.–5 P.M.	herbergercollege.asu.edu
University College Academic Advising Services	UASB 129	480/965-4464	Mon.–Fri.	8 A.M.–5 P.M.	uc.asu.edu/advising/directory
W. P. Carey School of Business	BA 109	480/965-4227	Wed. Other weekdays	8 A.M.–6:30 P.M. 8 A.M.–5 P.M.	www.wpcarey.asu.edu/up
Walter Cronkite School of Journalism and Mass Communication	STAUF A207	480/965-5011	Mon.–Fri.	8 A.M.–5 P.M.	cronkite.asu.edu

¹ Arizona is on mountain standard time all year and does not observe daylight saving time.

² Walk-ins are welcome; appointments are recommended.

³ Call for additional hours.

⁴ The office is closed from noon to 1 P.M.

advisors may be contacted at the locations and times shown in the “Academic Advising at Tempe Campus” table, on this page. (See “Building Abbreviations,” page 908, for a list of building abbreviations and names.)

Readmission to the University

Undergraduate students who have previously attended ASU but have not been enrolled at ASU for one semester or more are required to apply for readmission through the University Registrar’s Office for the semester in which reenrollment is intended. For information and application materials, students requesting readmission may access the Web site at www.asu.edu/registrar/readmissions, call 480/965-7550, or write

ARIZONA STATE UNIVERSITY
UNIVERSITY REGISTRAR’S OFFICE
PO BOX 870312
TEMPE AZ 85287-0312

Previously enrolled students seeking to enroll in a degree program at the West campus should request information from Admission Services at 602/543-8203 or write

ARIZONA STATE UNIVERSITY
ADMISSION SERVICES, MC 0250
PO BOX 37100
PHOENIX AZ 85069-7100

To ensure timely review of applications, students should submit an application for readmission and appropriate fee by the priority date for the semester of application. See the “Priority Dates for Submitting Applications and Application Fees” table, page 67. Applicants classified as residents must submit a \$25 nonrefundable application fee, and applicants classified as nonresidents must submit a \$50 nonrefundable fee. If the student has attended another accredited college or university since attending ASU, it is necessary for the student to submit an official transcript of all academic work. Failure to report such attendance is considered misrepresentation and falsification of university records. In addition, it is considered cause for Records Hold action and withholding of further registration privileges. An applicant for readmission must have an ASU GPA of 2.00 or higher, depending on the college of the major. An applicant who does not meet this GPA requirement and is below good standing may need to undergo an appeal process. In these cases, the completed application for readmission may be subject to a deadline that is earlier than the readmissions priority date. Students whose GPA is below a 2.00 and who are applying to a college other than the one they had previously attended and

students who were disqualified must submit an application for reinstatement in addition to the application for readmission. Nondegree applicants for readmission must have a minimum GPA of 2.00. If not, the applicant may apply for readmission to summer or winter only to raise the ASU GPA.

Conditional Readmission. A student completing academic work in progress at another institution may be granted conditional readmission. This conditional status remains effective until a final official transcript is received. Additional registration privileges are withheld if this condition for readmission is not cleared.

Academic Renewal

Academic renewal is a university policy administered for the purpose of recalculating the ASU cumulative GPA of undergraduate students who have been readmitted to a degree program after an absence of at least five continuous calendar years, including summer sessions, and who have completed in good standing a minimum of 12 college-approved additional hours in residence within three semesters after reentry. Students may have the former academic record before the five-year absence (including transfer credits) accepted in the same manner as if the credits were transfer credits. That is, earned hours are carried forward for up to 60 hours of credit in which a grade of “C” (2.00) or higher was earned. The cumulative GPA is based only on credits earned subsequent to the student’s reentry. All graduation residency, academic recognition residency, and GPA requirements must be fulfilled after academic renewal. A request for academic renewal follows this procedure:

1. Students interested in academic renewal must request the Application for Academic Renewal from the Readmission Section of the University Registrar’s Office or the dean of the college offering the major.
2. The Application for Academic Renewal may be submitted immediately upon readmission but not later than the start of the third semester after readmission.
3. The Application for Academic Renewal is submitted by the student to the dean of the college offering the major.
4. The dean specifies in advance a minimum of 12 semester hours.
5. When the approved credits are completed with a cumulative GPA of 2.50 or higher, and no grade lower than “C” (2.00) in each course, the dean forwards the Application for Academic Renewal to the University Registrar’s Office for processing.

Only students working toward their first undergraduate degree are eligible to apply for academic renewal, which may be effected only once during a student’s academic career. Academic renewal is transferable among colleges. All students with ASU GPAs below 2.00 are eligible to petition for academic renewal. Individual colleges may elect to entertain petitions for academic renewal from students with ASU GPAs above 2.00. College standards committees have

final authorization on academic renewal petitions. Eligibility for graduation is based on the ASU cumulative GPA after academic renewal. However, a student’s complete record—before and after academic renewal—remains on the transcript and may be taken into consideration when a student applies for undergraduate professional or graduate programs.

Registration

All persons attending a class at ASU must be registered for that class. A student is considered to be registered when all registration fees have been paid in full.

Eligibility. Only eligible students may register for courses at ASU. An eligible student is either continuing from the previous semester or has been admitted or readmitted to the university. See “Undergraduate Admission,” page 66, and “Readmission to the University,” page 80.

Proof of Identification. To receive university services in person photo identification must be presented. Each admitted or readmitted student who completes the registration process for a regular semester needs to obtain a student identification card. This photo identification card is valid for the duration of the student’s enrollment at ASU.

Photo IDs are issued throughout the semester at the Sun Card office located in the Memorial Union on Tempe campus; Student Services (QUAD 2) on Polytechnic campus; and through the bookstore, UCB 140, at West campus. See the *Schedule of Classes* or refer to “Sun Card/ID Card,” page 54.

Registration Fees. Registration fees are due and must be paid in full before the deadline specified for each semester in the *Schedule of Classes*. If any payment tendered is unauthorized, incomplete, or received after the due date, registration fees are considered unpaid.

Schedule of Classes. The *Schedule of Classes*, published for the fall and spring semesters, and the *Summer Sessions Bulletin* are distributed without charge. These publications are also available online at www.asu.edu/registrar/schedule. They list course offerings, dates, times, places, and procedures for registration, along with other important information about the term.

Course Loads. A minimum full-time course load for an undergraduate student is 12 semester hours. The maximum course load for which a student may register is 18 semester hours (with the exception of a 19-hour maximum for students enrolled in the College of Design or Ira A. Fulton School of Engineering). A student wishing to register for more than the maximum must petition the standards committee of the college in which the student is enrolled and must obtain an approved overload before registration.

Summer Session Semester Hour Load. The summer session semester hour load limit is seven semester hours for each five-week session and nine semester hours for the eight-week session. The student may not exceed a total of 14 semester hours for any combination of sessions.

UNDERGRADUATE ENROLLMENT

Enrollment Verification Guidelines

Term	Student	Full Time	Half Time	Less Than Half Time
Regular semester	Undergraduate	12 or more hours	6–11 hours	5 or fewer hours
	Graduate	9 or more hours	5–8 hours	4 or fewer hours
	Research/teaching assistant	6 or more hours	—	—
Five-week summer session	Undergraduate	4 or more hours	2 hours	1 hour
	Graduate	3 or more hours	2 hours	1 hour
	Research/teaching assistant	2 or more hours	1 hour	—
Eight-week summer session	Undergraduate	6 or more hours	3–5 hours	2 or fewer hours
	Graduate	5 or more hours	3–4 hours	2 or fewer hours

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 cannot be used to meet a baccalaureate graduation requirement. Before registration in the course, the student must submit a Division of Graduate Studies 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 graduate studies.

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 semester hours may be reserved, and only courses in which the student earned an "A" (4.00) or "B" (3.00) 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 15 semester hours during a regular semester and six hours during a summer session.

Concurrent Enrollment. Provided that the other institution's regulations concerning enrollment, graduation requirements, and transfer of credits are not violated, a student may enroll in classes at other institutions or in independent learning courses while enrolled at ASU. However, the student is urged to seek advising before concurrent enrollment to assure orderly progress toward a degree. If total credits exceed the maximum course load, prior permission must be granted by the college standards committee. See "Course Loads," page 81.

Attendance. The instructor has full authority to decide whether class attendance is required.

Enrollment Verification Guidelines. The registrar is responsible for verifying enrollment according to the general guidelines in the "Enrollment Verification Guidelines" table, on this page. Independent learning courses are not considered for enrollment verification purposes.

Cooperative Programs

Cooperative Education. Cooperative education at ASU is any educational program that requires *alternating classroom and work experience* in government or industry. The work experience exists for its educational value.

Full-Time Status of Co-op Students. A co-op student, during a work semester, is identified as both co-op and full time by the university. To qualify, the student must have met prescribed hours and GPA requirements.

Rights and Privileges of Co-op Students. During their work semesters, co-op students have the rights, privileges, and protections—with regard to university matters—accorded to full-time students, except financial aid. They maintain catalog continuity and have student access to university facilities and events.

Financial Aid for Co-op Students. Co-op students are not identified to lenders (including ASU) as being in loan repayment status. They have an "in school" full-time enrollment status. Co-op students do not receive any financial aid disbursement during their co-op semesters, *nor are such awards transferred to another semester.* The student is responsible for notifying Student Financial Assistance as soon as plans for a co-op term are made but no later than 10 days before the co-op term begins. The department or school is responsible for notifying Student Financial Assistance of students approved for co-op terms.

Traveling Scholar Program. The Traveling Scholar Program is a cooperative program among the state universities designed to enable students to take advantage of programs or special resources that are not available at their own institutions. Any undergraduate student with a GPA of at least 2.50 or any graduate student with a GPA of at least 3.00 enrolled at ASU, Northern Arizona University, or University of Arizona may be designated a Traveling Scholar by prior mutual agreement of the appropriate academic authorities at both the sponsoring and hosting institutions. For more information and the application form, call the University Registrar's Office Records Information section, or access the Web at www.asu.edu/registrar/forms.

Grading System

DEFINITIONS

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 represents a minimum 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 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.

Grades and Marks

All grades and marks appear on the permanent record and/or unofficial transcript. They are indicated by the letters shown in the “Grades” table below.

Ordinarily the instructor of a course has full discretion in selecting which grades to use and report from the available grading options.

Grades		
Grade	Definition	Grade Points
A+	—	4.333 ¹
A	Excellent	4.000
A-	—	3.667
B+	—	3.333
B	Good	3.000
B-	—	2.667
C+	—	2.333
C	Average	2.000
D	Passing	1.000
E	Failure	0.000
I	Incomplete	—
NR	No report	—
P	Pass	—
W	Withdrawal	—
X	Audit	—
Y	Satisfactory	—
Z	Course in progress ²	—

¹ Although the scale includes a grade of A+ with grade points of 4.333, the cumulative GPA is capped at 4.000.

² This grade is usually given pending completion of courses.

Grading Options

Ordinarily a grade of “A+,” “A,” “A-,” “B+,” “B,” “B-,” “C+,” “C,” “D,” or “E” is given upon completion of a course, unless another grading option such as “audit” or “pass/fail” is indicated at the time of registration. *Grading options cannot be changed after the close of the drop/add period.*

Incomplete

A mark of “I” (incomplete) is given by the instructor only when a student who is otherwise doing acceptable work is unable to complete a course because of illness or other conditions beyond the student’s control. The mark of

“I” should be granted only when the student can complete the unfinished work with the same instructor. However, an incomplete (“I”) may be completed with an instructor designated by the department chair if the original instructor later becomes incapacitated or is otherwise unavailable. The student is required to arrange with the instructor for the completion of the course requirements. The arrangement is recorded on the Incomplete Grade Request form. The student has one calendar year from the date the mark of “I” is recorded to complete the course. If the student completes the course within the calendar year, the instructor must submit an Authorization for Change of Grade form to the University Registrar’s Office, whether the student passed or failed the course. Marks of “I” are changed to a grade of “E” for purposes of evaluating graduation requirements for undergraduate students. Marks of “I” received in the fall 1983 semester or thereafter for undergraduate courses that have been on a student’s record for more than one calendar year are automatically changed to a grade of “E.” An undergraduate student does not reregister or pay fees for a course for which an incomplete “I” has been received in order to complete the course.

Students who receive a mark of “I” in courses at the 500 level or above have one calendar year to complete the course for a grade. After one calendar year, the mark of “I” becomes a permanent part of the transcript. To repeat the course for credit, a student must reregister and pay fees. The grade for the repeated course appears on the transcript but does not replace the permanent “I.”

Satisfactory

A mark of “Y” (satisfactory) may be used at the option of individual colleges and schools within the university and is appropriate for internships, projects, readings and conferences, research, seminars, theses, and workshops. The “Y” is included in earned hours but is not computed in the GPA.

Credit Enrollment

The semester hour is the unit on which credit is computed. It represents one 50-minute class exercise per week per semester. To obtain credit, a student must be properly registered and must pay fees for the course.

Audit Enrollment

A student may choose to audit a course, in which case the student attends regularly scheduled class sessions, but no credit is earned. The student should obtain the instructor’s approval before registering and paying the fees for the course. Selected courses may not be audited. Veteran students using education benefits should see “Veterans Services,” page 66.

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 the mark of “W” (withdrawal) may be recorded. This grading option may not be changed after the close of drop/add. The “X” is not included in earned hours and is not computed in the GPA.

Pass/Fail Enrollment

A mark of “P” (pass) or “E” (fail) may be assigned for this grading option. This grading method may be used at the

UNDERGRADUATE ENROLLMENT

option of individual colleges and schools within the university. Consult the academic advisor for detailed information and restrictions. Approval of both the class instructor and the college of the student's major are required before registration. "P" is included in earned hours but is not computed in the GPA.

Remedial Enrollment

A mark of "RC" (remedial credit) or "RN" (remedial no credit) may be assigned for this grading option. The course appears on an unofficial ASU transcript but does not appear on the grade report or official ASU transcript and is not included in earned hours. Remedial hours are included in verification of enrollment for purposes of loan deferment and eligibility.

WITHDRAWALS

Instructor-Initiated Drop

An instructor may drop a student for nonattendance during the second week of classes in fall or spring semesters or the first four days of each summer session. Instructor-initiated drops for nonattendance are signed by the dean or dean's designee. The college notifies students by mail. It is recommended that the student contact the instructor before the end of the first week of classes if absences during that period cannot be avoided.

Drop/Add

Students registering for courses for a semester or summer session may drop or add courses through the first week of classes in a semester or the first two days of a summer session. See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of drop/add periods. During this period, a student may drop one or more but not all scheduled courses without penalty. Courses that are dropped do not appear on the student's transcript and fees paid are refunded according to the refund schedule printed in the *Schedule of Classes*, depending on the student's remaining hours. A student who wishes to withdraw from all courses during the drop/add period must process a complete withdrawal from the university.

Course Withdrawal

During the second week through the 10th week of the Fall or Spring semester; the third day through the third week of a summer session; or until the midpoint of the term for winter and flexibly scheduled sessions, a student may withdraw from any course with a mark of "W." See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the withdrawal period. A student may not avoid any penalty for academic dishonesty by withdrawing from a course. A student may be reinstated to a course to receive a penalty of a reduced or failing grade, or XE.

Instructor-Initiated Withdrawal

An instructor may withdraw a student from a course with a mark of "W" or a grade of "E" only if the student's continued presence in the course is disruptive to the instructor's ability to conduct the course. A student may appeal an instructor-initiated withdrawal within 10 days of being withdrawn to the standards committee of the college in which offers the course. The committee's decision is final.

Withdrawal from the University

To withdraw from *all* classes, a student must submit a request to withdraw using ASU Interactive, SunDial, or submit a signed request in person to any registrar location. The ASU Interactive and SunDial complete withdrawal option is available through the semester transaction deadline. A student may withdraw from all courses with marks of "W" through the semester transaction deadline. See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the complete withdrawal periods. A student may not avoid any penalty for academic dishonesty by withdrawing from a course. A student may be reinstated to a course to receive a penalty of a reduced or failing grade, or XE.

Medical/Compassionate Withdrawal

A medical/compassionate withdrawal request may be made in extraordinary cases where serious illness or injury (medical) or another significant personal situation (compassionate) prevents a student from continuing in his or her classes, and where incompletes or other arrangements with the instructor are not possible. Usually, consideration is for complete withdrawal. All applications for withdrawal require thorough and credible documentation. Application for less than a complete withdrawal must be especially well documented to justify the selective nature of the medical/compassionate withdrawal request.

A student may request and be considered for a *medical* withdrawal when extraordinary circumstances, such as a serious illness or injury, prevent the student from continuing in classes. This policy covers both physical-health and mental-health difficulties.

A student may request and be considered for a *compassionate* withdrawal when extraordinary personal reasons, not related to the student's physical or mental health (for example, care of a seriously ill child or spouse, or a death in the student's immediate family), prevent the student from continuing in classes.

Each college has a dean's representative (medical/compassionate withdrawal designee) to review medical/compassionate withdrawal requests, according to that college's procedures. A student requesting a medical/compassionate withdrawal is referred to the dean's designee of the college of the student's major. A nondegree student is referred to the dean's designee of the college with which he or she is primarily affiliated. The dean's designee determines the appropriateness of the medical/compassionate withdrawal request and whether an administrative hold is indicated. Removal of the hold must be authorized by the designee before the student can register for a future semester or be readmitted to the university.

The medical/compassionate withdrawal procedure results in a special note line on the unofficial transcript. Refunds are not given beyond six months past the close of the semester. Only one Request for Documented Medical/Compassionate Withdrawal form needs to be filed with the college of the major, even if classes in more than one college are involved. Medical/compassionate withdrawal applications and supporting documents are retained and filed separately from the student's other records.

A student may not avoid any penalty for academic dishonesty by withdrawing from a course. A student may be

reinstated to a course to receive a penalty of a reduced or failing grade, or XE.

GRADE POINTS

For the purpose of calculating the grade point average (GPA), grade points are assigned to each of the grades for each semester hour as follows: "A+," 4.333 points; "A," 4.000 points; "A-," 3.667 points; "B+," 3.333 points; "B," 3.000 points; "B-," 2.667 points; "C+," 2.333 points; "C," 2.000 points; "D," 1.000 point; and "E," 0.000 points. GPAs are rounded to the nearest 100th of a grade point.

Grade Point Average

Grade points earned for a course are multiplied by the number of semester hours to produce honor points. For example, receiving an "A," which is assigned four grade points, in a three-semester-hour course would produce 12 honor points. The grade point average (GPA) is obtained by dividing the total number of honor points earned by the total number of semester hours graded "A+," "A," "A-," "B+," "B," "B-," "C+," "C," "D," or "E." Other grades do not carry grade points.

Semester GPA is based on semester net hours. Cumulative GPA is based on total net hours. Although the plus/minus scale includes a grade of A+ with grade points of 4.333, the cumulative GPA is capped at 4.000.

Change of Grade

Ordinarily the instructor of a course has the sole and final responsibility for any grade reported. Once the grade has been reported to the registrar, it may be changed upon the signed authorization of the faculty member who issued the original grade, the department chair, and the dean of the college concerned. This policy also applies to the grade of "I" (incomplete).

University Policy for Student Appeal Procedures on Grades

Informal. The steps outlined on this page, 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 are 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 used, 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 will be 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.

Repeating Courses

An undergraduate course taken at ASU may be repeated for credit if the grade of "D," "E," or "W" or a mark of "X" is received. An undergraduate student may not repeat for credit an undergraduate course in which a grade of "C" or higher is earned. Undergraduate courses in which grades of "D" or "E" are received may be repeated only once. After an undergraduate student repeats 100- and 200-level courses, the student's transcript shows both grades, but the student's cumulative GPA reflects only the higher grade. After an undergraduate student repeats 300- or 400-level courses, the student's cumulative GPA and the transcript reflect both grades.

To be eligible for the deletion of "D" or "E" grades from calculations of the GPA, the course must be repeated at ASU. Independent Learning courses may not be used to repeat "D" or "E" grades. Students who have graduated are not eligible to delete the grade for a course taken before the award of the ASU bachelor's degree.

Students wishing to repeat a class for the third time with grades of "D" or "E" must petition the standards committee of the college in which they are enrolled. This policy does not apply to seminar and independent study courses with different content each semester. This policy affects only undergraduate students and undergraduate courses.

UNDERGRADUATE ENROLLMENT

Demonstration of Mastery

An undergraduate student who receives a "D" in a course in which a "C" or higher is required may use the grade from an equivalent course taken elsewhere to demonstrate mastery at the "C" or higher level. However, the course may neither be transferred to ASU (since credit has already been given for the course) nor computed in the student's GPA.

Midterm Report

Instructors are strongly encouraged to evaluate students at midterm for academic progress. A student who has been evaluated for a "D" or "E" at midterm receives a midterm report. The midterm "D" and "E" grades are not recorded on the student's permanent record. Midterm reports are mailed to the student's local address of record.

Final Grades

Grades may be viewed on the ASU Interactive Web site at www.asu.edu/interactive or accessed through SunDial at 480/350-1500.

Records Hold

The University Registrar's Office enforces a financial records hold or administrative hold on the records of a student when an outstanding financial obligation or disciplinary action has been reported.

When a financial hold is placed on the record, the following results may occur:

1. No official transcript is issued.
2. Registration privileges are suspended.
3. Other student services may be revoked.

The second and third results may also occur when an *administrative* hold is placed on the record. The hold remains effective until removed by the initiating office. It is the student's responsibility to clear the conditions causing the hold.

Transcripts

Students may request official transcripts via ASU Interactive, in person, or by written letter. The request must include the following information about the student:

1. name;
2. former name(s);
3. ASU ID number (or Social Security Number [SSN]);
4. date of birth;
5. first and last dates of attendance;
6. current return address;
7. daytime phone number;
8. specific mailing address for each transcript ordered; and
9. student signature.

Students (except those who attended ASU before 1980) must also select one of the following options to be displayed on the transcript:

1. ASU ID only;
2. SSN only;
3. both ASU ID and SSN displayed; or
4. neither ASU ID or SSN displayed.

The University Registrar's Office does not issue a transcript if the student has a financial records hold. Official transcripts can be requested in person, by mail or via ASU Interactive. The fee for official transcripts is \$10.00 per copy. "Rush" transcripts (requested to be printed and picked up the same day) cost \$10.00 in addition to the total cost of the transcripts ordered. Special delivery processing, instead of regular mail, is available via FedEx or U.S. Express Mail at \$19.50 per U.S. delivery address (with some exceptions). Express deliveries to addresses outside the U.S., is available via International FedEx Express or International Express Mail at \$38.00. The express costs are in addition to the cost of the transcript(s). (Please note that FedEx Express will not deliver to a PO Box; an actual FedEx deliverable street address is required.) Fees are subject to change without notice. Unofficial transcripts may be requested in person at the University Registrar's Office, or by mail or fax (480/965-2295) if a signed release is enclosed. There is no charge for an unofficial transcript. Also, students may view and print their own unofficial transcripts via the Web using ASU Interactive at www.asu.edu/registrar.

Note: Pre-1980 records are not available via the Web.

All in-person transcript requests require presentation of photo identification. Requests are not accepted from third parties without a written release from the student. For information on parental access to records, see "Access to Records," page 88.

Retention and Academic Standards

Class Standing. A student's class standing is determined by the number of hours earned, as shown in the "Class Standing" table below.

Class Standing	
Student	Hours Earned
Freshman	24 or fewer semester hours earned
Sophomore	25 to 55 semester hours earned
Junior	56 to 86 semester hours earned
Senior	87 or more semester hours earned
Graduate	Bachelor's degree from accredited institution

Academic Good Standing. For the purpose of retention, academic good standing for degree-seeking students is defined in the "Academic Good Standing" table below.

Academic Good Standing	
Total Earned Hours	Minimum Cumulative GPA
24 or fewer	1.60
25 to 55	1.75
56 or more	2.00

A student who does not maintain the minimum GPA standard is placed on academic probation or is disqualified. A student on academic probation is in conditional good standing and is permitted to enroll. A student who has been

disqualified is not in academic good standing and is not permitted to enroll for fall or spring semesters.

To transfer from one college to another within the university or to be eligible for readmission, a student must have an ASU GPA of 2.00 or higher. The GPA determining good standing is computed on courses taken only at ASU.

For purposes of retention or transfer, an individual college may set higher GPA standards; otherwise, the university standards prevail. See the college sections of this catalog or contact the college deans' offices for statements regarding college retention standards.

Dean's List. Undergraduate students who earn 12 or more graded semester hours ("A+," "A," "A-," "B+," "B," "B-," "C+," "C," "D," or "E") during a semester in residence at ASU with a GPA of 3.50 or higher are eligible for the Dean's List. A notation regarding Dean's List achievement appears *only* on the final grade report available online at www.asu.edu/registrar.

Satisfactory Academic Progress. The university is required to publish and enforce standards of satisfactory academic progress for certain students (e.g., student athletes, students receiving financial aid, and students receiving veterans benefits).

Certification of satisfactory progress for student athletes is verified by the academic advisor and the dean's designee for certifying satisfactory progress. Certification of satisfactory progress for students receiving financial aid or veterans benefits is verified by Student Financial Assistance or the Veterans Services section, respectively. Students should contact their advisors or the appropriate office for additional information on satisfactory progress requirements.

Probation. A student's college assumes responsibility for enforcing academic standards and may place on probation any student who has failed to maintain good standing as previously defined. For purposes of probation and retention, an individual college may set higher GPA standards. A student on academic probation is required to observe any rules or limitations the college may impose as a condition for retention.

Disqualification. A student who is placed on probation at the end of a semester is subject to disqualification by the college at the end of the following semester if the conditions imposed for retention are not met.

Disqualification is exercised at the discretion of the college. A *disqualified student is notified by the dean of the college and is not allowed to register in a fall or spring semester at the university*. If the student has already registered for a future fall or spring semester, then the registration is cancelled. A student who has been disqualified may apply for reinstatement to the college standards committee. A student who is disqualified may not attend as a nondegree student.

Reinstatement. A student who has been disqualified and has skipped a fall or spring semester must follow the procedures for readmission. See "Readmission to the University," page 80.

A disqualified student who has not skipped a semester may submit an Application for Reinstatement to the college of his or her major. If the student wishes to transfer to a dif-

ferent college, he or she may submit an Application for Reinstatement to the college into which he or she wishes to transfer.

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 university or other sanctions as specified in the University Student Academic Integrity Policy. Violations of academic integrity include, but are not limited to, cheating, fabrication, tampering, plagiarism, or facilitating such activities. The University Student Academic Integrity Policy is available from the Office of the Executive Vice President and Provost of the University and from the deans of the individual colleges.

Suspension or Expulsion for Academic Dishonesty. All decisions relating to expulsion or suspension that are concerned with academic dishonesty are the sole prerogative of the dean of the school or college in which the student has been admitted. These decisions of suspension or expulsion can be appealed in accordance with established university procedures. Application for reinstatement may be made to any of the academic units within the university after the specified period of suspension. Merely having remained in a suspended status for a period of time does not, in itself, constitute a basis for reinstatement.

Student Records

Family Educational Rights and Privacy Act of 1974

The federal Family Educational Rights and Privacy Act of 1974, also known as the Buckley Amendment or FERPA, sets forth the requirements governing the protection of the privacy of education records of students who are or have been in attendance at ASU.

Definitions

Eligible Student. For the purpose of this act, an *eligible student* is defined as any individual formally admitted to and enrolled at ASU.

Record. The term *record* includes any information or data recorded in any medium, including, but not limited to, handwriting, print, tapes, film, microfilm, microfiche, and electronic means.

Types of Information

Education Record. The term *education record* refers to those records directly related to a student and maintained by an educational institution. Two types of education records are subject to the provisions of this act: (1) directory information and (2) personally identifiable information. The term does not include those records specifically excluded by Section 99.3 of the privacy act.

Directory Information. The term *directory information* includes the following student information: name, local, permanent and ASU e-mail addresses (including directory number), local telephone number, date of birth, academic level, major field of study, college of enrollment, participation in officially recognized activities and sports, weight and

UNDERGRADUATE ENROLLMENT

height of members of athletic teams, dates of attendance, degrees and awards received (including National Merit, National Achievement, and National Hispanic Scholars) and the most recent previous educational agency or institution attended by the student.

Personally Identifiable Information. The term *personally identifiable information* includes all information not defined as directory information. This includes, but is not limited to, the name of a student's parent or other family member(s), a personal identifier such as the student's ASU ID number or Social Security number, a list of personal characteristics, or other information that would make the student's identity easily traceable; and, any information, including directory information, that the student has indicated should not be released.

Access to Records

An eligible student may inspect and review his or her own education records. Some form of photo identification must be displayed before access to education records is allowed.

Directory information may be released to anyone without consent of the student unless the student has indicated otherwise. Students may request that this information not be released by completing a form in the University Registrar's Office. A request to withhold this information excludes the

student from being listed in the annual directory only if the request is submitted to the University Registrar's Office before the end of the third week of the fall semester.

All other education records that contain personally identifiable information may not be released without the written consent of the student. A parent of a dependent student may challenge denial of such access by producing the most current copy of Internal Revenue Form 1040. If that form lists the student in question as a dependent, the parent is required to sign an affidavit that affirms that the student is his or her dependent. The affidavit is retained by the University Registrar's Office. Upon receipt of the affidavit, the university may make student records available to the parent for the rest of that calendar year as specified under the Buckley Amendment.

Students may grant access to individuals or agencies by completing a form in the University Registrar's Office.

Location of Policy and Records

The custodian of education records at ASU is the University Registrar's Office. A copy of this complete policy may be found at www.asu.edu/aad/manuals/ses. The University Registrar's Office also maintains a directory that lists all education records maintained on students by ASU.



The Memorial Union offers a variety of programs, services, and opportunities for student involvement, such as the Art Café, an eatery where students, faculty, and staff demonstrate their talents in the performing and visual arts.

Tim Trumble photo

University Graduation Requirements

UNIVERSITY REQUIREMENTS

All students enrolled in a baccalaureate degree program must fulfill the following university requirements to graduate.

Credit Requirements

A minimum of 120 semester hours is required for graduation with a baccalaureate degree. A minimum of 45 semester hours in upper-division courses is required for graduation. Some programs may require more than 120 semester hours and 45 upper-division semester hours for graduation; refer to specific campus/college graduation requirements.

Not more than 60 semester hours in independent learning courses and/or earned by comprehensive examination (including Advanced Placement, College-Level Examination Program, DANTES Subject Standardized Test, and International Baccalaureate Diploma/Certificate exams) are accepted for credit toward the baccalaureate degree.

Grade Point Requirement

A minimum cumulative grade point average of 2.00 for all courses taken at ASU is required to graduate with a baccalaureate degree.

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. See "General Studies," page 93.

Students transferring from Arizona community colleges with a certified completion of the appropriate Arizona General Education Curriculum (AGEC) will have satisfied all lower-division General Studies requirements of the baccalaureate degree with which the AGEC articulates. For more details regarding the different versions of AGEC, refer to az.transfer.org/cas/atass/student/agec.html.

Mathematics Requirement

All undergraduate degree-seeking students are expected to fulfill the university's mathematics requirement by the time they have accumulated 30 hours of credit in residence at ASU. Any student who has more than 30 hours of credit and has not fulfilled the mathematics requirement must enroll in a mathematics course or an appropriate prerequisite course and continue to do so every semester until the mathematics requirement is met. A waiver may be granted for continuous enrollment if there are scheduling conflicts detrimental to the student's academic progress.

First-Year Composition Requirement

Completion of both ENG 101 and 102 or ENG 105 with a grade of "C" (2.00) or higher is required for graduation from ASU in any baccalaureate program. International students from non-English-speaking countries may meet the First-Year Composition requirement by completing ENG 107 and 108 with a grade of "C" (2.00) or higher.

New or Transfer Students. Before new students or transfer students can register for the first time at ASU, they must determine what courses to take to complete the university First-Year Composition requirement; the students must then enroll immediately in composition courses and continue to do so every term until composition requirements are met.

Colleges may grant waivers to the immediate and continual enrollment requirement when there are scheduling conflicts detrimental to the student's academic progress. Transfer students from public community Arizona colleges or universities can determine the acceptability of their composition courses by referring to the *Course Applicability System* in consultation with an academic advisor. Composition courses transferred from out-of-state institutions must be evaluated and approved by the Composition Office.

The transfer student must file an application in the student's college for Equivalency of First-Year Composition Requirements, along with a transcript and catalog descriptions of the composition courses to be transferred. The application, available in each college, should be filed immediately upon transfer of course work to ASU so that the student is able to enroll in an additional composition course, if required to do so.

For more information, visit LL 314 on Tempe campus or FAB N220 on West campus.

Resident Credit Requirement

Resident credit refers to a course that is offered in a regular semester, winter session, intersession, or summer session. Credit earned through comprehensive examinations is also included when calculating ASU resident hours. Credit earned through independent learning, advanced placement, the College-Level Examination Program, or an International Baccalaureate Diploma/Certificate are excluded when calculating ASU resident hours.

Campus Resident Credit Requirement. Every candidate for the baccalaureate degree is required to earn a minimum of 30 semester hours in resident credit courses at the ASU campus from which the student will graduate.

Guidelines for Determination of Catalog Year

The *General Catalog* is published annually. Department, school, division, college, and university requirements may change and are upgraded often. In determining graduation requirements, an undergraduate student may use only one edition of the *General Catalog* but may elect to follow any subsequent catalog. Students maintaining continuous enrollment at any public Arizona community college or university may graduate according to the requirements of the catalog in effect at the time of initial enrollment or according to the requirements of any single catalog in effect during subsequent terms of continuous enrollment. Students may maintain continuous enrollment whether attending a single public community college or university in Arizona or transferring among public institutions in Arizona while pursuing

UNIVERSITY GRADUATION REQUIREMENTS

Continuous Enrollment

Student's Activity	Semester/Year	Status
Example A		
Admitted and earned course credit at an Arizona community college	Fall 2001	Active
Continued at an Arizona community college	Spring 2002	Active
	Fall 2002	
Transferred to an Arizona university	Spring 2003	Student enrolled under 2001–2002 or any subsequent catalog
Example B		
Admitted and earned course credit at an Arizona community college	Fall 1997	Active
Enrolled but earned all “Ws” or “Es” (0.00)	Spring 1998	Inactive
Enrolled in audit courses only	Fall 1998	Inactive
Nonattendance	Spring 1999	Inactive
Transferred to an Arizona university	Fall 1999	Student enrolled under 1999–2000 or any subsequent catalog
Example C		
Admitted and earned course credit at an Arizona community college	Fall 1999	Active
Nonattendance	Spring 2000	Inactive
	Fall 2000	
	Spring 2001	
Readmitted and earned course credit at an Arizona community college	Fall 2001	Active
Transferred to an Arizona university	Spring 2002	Student enrolled under 2001–2002 or any subsequent catalog
Example D		
Admitted and earned course credit at an Arizona community college	Fall 2000	Active
Nonattendance	Spring 2001	Inactive
Readmitted and earned course credit at an Arizona community college	Summer 2001	Active
Nonattendance	Fall 2001	Inactive
	Spring 2002	
Transferred to an Arizona university	Fall 2002	Student enrolled under 2000–2001 or any subsequent catalog
Example E		
Admitted and earned course credit at an Arizona community college	Summer 2004	Active
Continued at an Arizona community college	Fall 2004	Active
	Spring 2005	
Nonattendance	Fall 2005	Inactive
Readmitted and earned course credit at an Arizona community college	Spring 2006	Active
Transferred to an Arizona university	Summer 2006	Student enrolled under 2004–2005 or any subsequent catalog
Example F		
Admitted and earned course credit at an Arizona university	Summer 2004	Active
Nonattendance	Fall 2004	Inactive
Nonattendance	Spring 2004	Inactive
Readmitted and earned course credit at an Arizona university	Fall 2005	Active
Continued at an Arizona community college	Spring 2006	Active
		Student enrolled under 2004–2005 or any subsequent catalog

their degrees. Students transferring among Arizona public higher education institutions must meet the admission, residency, and all curricular and academic requirements of the degree-granting institution.

1. A semester in which a student earns course credit is counted toward *continuous* enrollment. Noncredit courses, audited courses, failed courses, or courses from which the student withdraws do not count toward the determination of *continuous* enrollment for catalog purposes. See examples A and B in the “Continuous Enrollment” table, on this page.

2. Students who do not meet the minimum enrollment standard stipulated in number 1 during three consecutive semesters (fall/spring/fall or spring/fall/spring) and the intervening summer term at any public Arizona community college or university are no longer considered continuously enrolled. (Note that students are not obligated to enroll and earn course credit during summer terms, but summer enrollment may be used to maintain continuous enrollment status.) These students must meet requirements of the public Arizona community college or university

catalog in effect at the time they are readmitted or of any single catalog in effect during subsequent terms of *continuous* enrollment after readmission. See examples C and D in the “Continuous Enrollment” table, page 90.

3. Students admitted or readmitted to a public Arizona community college or university during a summer term must follow the requirements of the catalog in effect the following fall semester or of any single catalog in effect during subsequent terms of *continuous* enrollment. See example E in the “Continuous Enrollment” table, page 90.
4. In areas of study in which the subject matter changes rapidly, material in courses taken long before graduation may become obsolete or irrelevant.
5. Course work that is more than eight years old is applicable to completion of degree requirements at the discretion of the student’s major department. Departments may accept such course work, reject it, or request that the student revalidate its substance. The eight-year limit on course work applies except when program accreditation agencies limit the life of course work to fewer than eight years. Departments may also require students to satisfy current major requirements rather than major requirements in earlier catalogs when completing earlier requirements is no longer possible or educationally sound.
6. Enrollment by Arizona community college students in nontransferable courses still constitutes enrollment for purposes of determining whether the student has been continuously enrolled. For example, if a student takes two semesters of cooperative education classes, which are not transferable to the university but constitute *continuous* enrollment at the community college, the university should consider it *continuous* enrollment.
7. Exceptions made by an institution apply only to the institution that made the exception. For example, if the community college departments accepted credit that was more than eight years old, the university department to which the student transfers has the right and the obligation to reevaluate any credit more than eight years old.

Inquiries about these guidelines may be directed to the student’s academic advisor.

Declaration of Graduation

Students must file a Declaration of Graduation (DOG) using the Degree Audit Reporting System (DARS). DARS is an automated process that matches courses a student has completed with the requirements of a particular academic degree program, resulting in a report that shows the student which requirements are satisfied and which remain to be fulfilled, thus providing a guide for efficient selection of courses toward graduation. For example, a student majoring in Biology would request a Degree Audit Report that would show how his or her completed ASU and transfer course work would apply to the Biology degree program.

Each student must submit a DOG form no later than the semester in which he or she earns the 87th semester hour.

The DOG process confirms the degree requirements under which the student is enrolled, as indicated on the degree audit report for that academic program and catalog year. The student should review his or her degree audit with an academic advisor to assure an accurate interpretation. Some departments may require the DOG earlier than the 87th hour. Students failing to submit the DOG are prevented from further registration.

Application for Graduation Requirements

The following steps are required to complete the graduation process:

1. Register for the final semester.
2. Pay the graduation fee at Cashiering Services. Note the deadlines in the “University Calendar,” page 22.
3. Submit the fee receipt to the Graduation Section, SSV 144, and apply for graduation. The Degree Audit Report or Program of Study is reviewed at this time and the graduation date and eligibility to graduate are verified.
4. Complete all course work listed on the Degree Audit Report or Program of Study by the graduation date.

For more information about application for graduation procedures at West campus, visit Registration Services in UCB 120, or call 602/543-8203. For more information about application for graduation procedures at the Polytechnic campus, visit Registration Services in QUAD 2.

Students must comply with the above requirements to graduate.

Petition for Variance from Degree

Any student wishing to have a college or university degree requirement variance must petition the standards committee of the college in which the student is enrolled.

All petitions must originate with the student’s advisor. Refer to the college sections of this catalog for college and division, school, or department requirements.

Tempe Campus Standards Committee. This committee advises the Office of the Executive Vice President and Provost regarding undergraduate student petitions that concern university-wide academic requirements. These requirements include but are not limited to requirements on the amount of transfer credit, graduation requirements, limits on credit by examination, and requirements for a second baccalaureate degree (see “Second Baccalaureate Degree,” page 92). To petition for a variance from such university requirements, the normal department, division, school, and college forms and procedures are used. Petitions that have been denied at the college level are forwarded to the Tempe Campus Standards Committee.

OTHER REQUIREMENTS

The separate units of ASU—such as colleges, schools, and departments—have specific requirements for graduation that must be satisfied for a baccalaureate degree. For those requirements, see the appropriate *General Catalog* section. Students are encouraged to consult with an academic advisor in planning a program to ensure that it meets the various requirements. A well-planned program may enable a student to concurrently satisfy a

UNIVERSITY GRADUATION REQUIREMENTS

portion of the General Studies requirement together with a portion of a college or major requirement.

OVERVIEW OF GRADUATION REQUIREMENTS

At ASU, students take classes that fulfill four types of requirements. As illustrated in the "Graduation Requirements" diagram, on this page, some courses can fulfill two or more types of requirements, but other courses fulfill only one requirement. The total semester hours needed to graduate are represented by the largest circle. The university minimum is 120 semester hours. Some majors, however, require more than 120 semester hours.

Although the three shaded circles are equal in size and the white circle is larger than all three, the total number of semester hours for each type of requirement may vary.

University Requirements. The light gray circle represents university requirements. The General Studies requirement and the First-Year Composition requirement are among these requirements. For more information, see "General Studies," page 93.

College Requirements. The medium gray circle represents college requirements. Some colleges and schools have additional requirements, such as the College of Liberal Arts and Sciences.

Major. The dark gray circle represents the requirements of the major. The semester hours required for a major may be as low as 30 hours or as high as 63 hours.

Electives/Minor. The white circle represents electives and the requirements of a minor. A minor typically adds an additional 18 to 25 semester hours. Though every student must eventually declare a major, a minor is not required. For more information, see "Minors, Certificates, and Interdisciplinary Studies," page 126. Some courses, while providing semester hours toward graduation, fall outside the shaded circles and are not required in a program for graduation. These courses are electives. Some majors leave no room for electives within the minimum 120 semester hours required to graduate.

GRADUATION WITH ACADEMIC RECOGNITION

An undergraduate student must have completed at least 56 semester hours of resident credit at ASU to qualify for graduation with academic recognition for a baccalaureate degree. West campus requires a minimum of 50 semester hours of ASU resident credit to qualify for academic recognition.

The cumulative GPA determines the designation, as shown in the "Academic Recognition" table below.

Academic Recognition	
Cumulative GPA	Designation
3.40–3.59	cum laude
3.60–3.79	magna cum laude
3.80–4.00	summa cum laude

The cumulative GPA for these designations is based on only ASU resident course work. For example, ASU independent learning course grades are not calculated in the honors GPA. All designations of graduation with academic recognition are indicated on the diploma and the ASU transcript. Graduation with academic recognition applies only to undergraduate degrees.

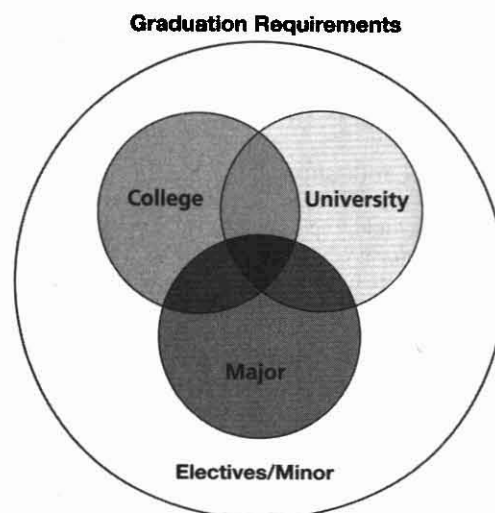
A student who has a baccalaureate degree from ASU and is pursuing a second baccalaureate degree at ASU (with a minimum of 30 hours of resident credit) is granted academic recognition on the second degree based on the semester hours earned subsequent to the posting of the first degree. If fewer than 56 semester hours are completed at ASU subsequent to completion of the first ASU degree, the level of academic recognition can be no higher than that obtained on the first degree. If 56 or more semester hours are completed at ASU after completion of the first ASU degree, the level of academic recognition is based on the GPA earned for the second ASU degree. Inquiries about graduation with academic recognition may be directed to the Graduation Section, 480/965-3256.

ADDITIONAL DEGREES

Second Baccalaureate Degree. The student seeking a second baccalaureate degree must meet admission criteria for that degree. After conferral of the first degree, a minimum of 30 semester hours in resident credit must be successfully completed at the ASU campus from which the second baccalaureate degree will be awarded. The student must meet all degree and university requirements of the second degree.

Concurrent Degrees. More than one baccalaureate degree may be pursued concurrently if prior approval is given by the standards committee(s) of the college(s) offering the degrees. Students may receive concurrent degrees if they meet the minimum requirements for both degrees.

Graduate Degrees. For more information, see "Division of Graduate Studies," page 150, and "College of Law," page 496.



General Studies

Meeting the General Studies Requirement	93
Five Core Areas	93
Three Awareness Areas	94
General Studies Courses	95

A baccalaureate education should not only prepare students for a particular profession or advanced study, but for constructive and satisfying personal, social, and civic lives as well. In addition to depth of knowledge in a particular academic or professional discipline, students should also be broadly educated and develop the general intellectual skills they need to continue learning throughout their lives. Thus, the General Studies requirement complements the undergraduate major by helping students gain mastery of critical learning skills, investigate the traditional branches of knowledge, and develop the broad perspective that frees one to appreciate diversity and change across time, culture, and national boundaries.

Critical learning skills include proficiency in the use of language, mathematics, and quantitative methods as tools for acquiring, renewing, creating, and communicating knowledge. A broad education includes an understanding of the methods and concerns of traditional branches of knowledge—the arts and humanities, the social sciences, and the natural sciences. Developing perspective requires historical, global, and cross-cultural examination of knowledge of all kinds.

To help students achieve these educational goals, the General Studies Program includes five *core areas* and three *awareness areas*. The five *core areas* help students acquire critical lifelong learning skills and guide their exploration of the traditional branches of knowledge:

1. literacy and critical inquiry;
2. mathematics studies;
3. humanities, fine arts, and design;
4. social and behavioral sciences; and
5. natural sciences.

The three *awareness areas* promote appreciation of cultural diversity within the contemporary United States, develop an international perspective, and foster an understanding of current human events through study of the past:

1. cultural diversity in the United States;
2. global awareness; and
3. historical awareness.

The courses approved by the General Studies Councils for meeting the General Studies requirement are noted in the “General Studies Courses” table, page 96; in the course

descriptions; and in the *Schedule of Classes* each academic term.

Meeting the General Studies Requirement

All students enrolled in a baccalaureate degree program must successfully complete a minimum of 35 semester hours of approved General Studies courses. Many General Studies courses are approved as satisfying more than one requirement. The following conditions govern the application of courses toward the General Studies requirement:

1. A single course may be used to satisfy one core area and a maximum of two awareness area requirements.
2. A single course may be used to satisfy a maximum of two awareness area requirements.
3. A single course cannot be used to satisfy two core area requirements, even if it is approved for more than one core area.

There is no limit to the number of advanced placement (AP) or College-Level Examination Program (CLEP) credits that can be used to meet the General Studies requirement; see “Credit by Examination,” page 74. However, the natural sciences (SQ and SG) and literacy and critical inquiry (L) portions of the General Studies requirement are not satisfied by CLEP.

FIVE CORE AREAS

Literacy and Critical Inquiry (L)

Literacy is competence in written and oral discourse; critical inquiry is the gathering, interpretation, and evaluation of evidence. The literacy and critical inquiry requirement helps students sustain and extend their ability to reason critically and communicate clearly through language.

L Requirement (Six Semester Hours). Students must complete six semester hours from courses designated as L, at least three semester hours of which must be chosen from approved upper-division courses, preferably in their major. Students must have completed ENG 101, 105, or 107 to take an L course.

Mathematical Studies (MA and CS)

This core area has two categories: (1) Mathematics (MA) is the acquisition of essential skill in basic mathematics and requires the student to complete a course in college mathematics or precalculus or to demonstrate a higher level of skill by completing a course for which college algebra is a prerequisite; and (2) computer/statistics/quantitative applications (CS) applies mathematical reasoning and requires students to complete a course in either the use of statistics/

GENERAL STUDIES

quantitative analysis or the use of the computer to assist in serious analytical math work.

MA and CS Requirement (Six Semester Hours). This requirement has two parts: (1) at least three semester hours must be selected from courses designated MA, and at least three semester hours must be selected from courses designated CS; and (2) all students are expected to fulfill the MA requirement by the time they accumulate 30 hours of credit in residence at ASU. Any student who has more than 30 hours of resident ASU credit and has not fulfilled the mathematics (MA) requirement must enroll in an MA course or an appropriate prerequisite and continue to do so every semester until the mathematics requirement is met. College officers may grant waivers to the immediate and continual enrollment requirement only when there are scheduling conflicts detrimental to the student's academic progress.

Humanities, Fine Arts, and Design (HU)

The study of the humanities and the disciplines of art and design deepen awareness of the complexities of the human condition and its diverse histories and cultures. Courses in the humanities are devoted to the productions of human thought and imagination, particularly in philosophical, historical, religious, and artistic traditions. Courses with an emphasis in fine arts and design are devoted to the study of aesthetic experiences and the processes of artistic creation. They may also feature a design emphasis in which material culture is studied as a product of human thought and imagination.

HU Requirement. The requirements for humanities, fine arts, and design (HU) are combined with the requirements for social and behavioral sciences (SB). See "Combined HU and SB Requirement (15 Semester Hours)," on this page.

Social and Behavioral Sciences (SB)

The social and behavioral sciences provide scientific methods of inquiry and empirical knowledge about human behavior, within society and individually. The forms of study may be cultural, economic, geographic, historical, linguistic, political, psychological, or social. The courses in this area address the challenge of understanding the diverse natures of individuals and cultural groups who live together in a world of diminishing economic, linguistic, military, political, and social distance.

Combined HU and SB Requirement (15 Semester Hours). A total of 15 semester hours must be completed in the following two core areas: (1) humanities, fine arts, and design (HU) and (2) social and behavioral sciences (SB). Two conditions must be satisfied: (1) six semester hours must be taken in one of these two core areas and nine hours in the other core area; and (2) three of the 15 semester hours must be at the upper-division level.

Natural Sciences (SQ and SG)

The natural sciences help students appreciate the scope and limitations of science and its contributions to society. Natural science areas of study include anthropology, astronomy, biology, biochemistry, chemistry, experimental psychology, geology, microbiology, physical geography, physics, and plant biology. Knowledge of methods of scientific

inquiry and mastery of basic scientific principles and concepts are stressed, specifically those that relate to matter and energy in living and nonliving systems. Firsthand exposure to scientific phenomena in the laboratory is important in developing and understanding the concepts, principles, and vocabulary of science.

General Studies courses that satisfy the natural science requirement are given one of two classifications: quantitative and general.

Natural Science-Quantitative (SQ). These laboratory courses include a substantial introduction to the fundamental behavior of matter and energy in physical and biological systems.

Natural Science-General (SG). These laboratory courses cover aspects of scientific inquiry that lend themselves to more qualitative or descriptive discussions of science.

SQ and SG Requirement (Eight Semester Hours). Eight semester hours of courses designated SQ or SG must be selected. Of these, at least four semester hours must be taken from the SQ category.

THREE AWARENESS AREAS

Students must complete courses that satisfy each of the three awareness areas. Courses that are listed for a core area and one or more awareness areas may satisfy each of these requirements concurrently, up to a maximum of two of the awareness areas listed for that course.

Cultural Diversity in the United States (C)

The objective of the cultural diversity requirement is to promote awareness and appreciation of cultural diversity within the contemporary United States. The objective is accomplished through the study of the cultural, social, or scientific contributions of women and minority groups, examination of their experiences in the United States, or exploration of successful or unsuccessful interactions between and among cultural groups. Awareness of cultural diversity and its multiple sources can illuminate the collective past, present, and future and also help students to achieve greater mutual understanding and respect.

Global Awareness (G)

The objective of the global awareness requirement is to help students recognize the need for an understanding of the values, elements, and social processes of cultures other than that of the United States. The global awareness area includes courses that recognize the nature of other contemporary cultures and the relationship of the American cultural system to generic human goals and welfare.

Historical Awareness (H)

The objective of the historical awareness requirement is to help students develop knowledge of the past that can be useful in shaping the present and future. History is present in languages, art, music, literature, philosophy, religion, and the natural sciences, as well as in the social science traditionally called history.

Transfer Credit

The Arizona General Education Curriculum (AGEC), offered by Arizona community colleges, is composed of 35 semester hours of lower-division general education course work. Students who complete the AGECEC have fulfilled the ASU First-Year Composition requirement and all lower-division portions of the General Studies requirement. Students must still take six upper-division semester hours (three for L and three for SB or HU) to complete the ASU General Studies requirement. If students transfer from Arizona community colleges without completing AGECEC or from other accredited postsecondary institutions, they receive credit for General Studies based on course-by-course equivalency. See "Arizona General Education Curriculum (AGECEC)," page 72.

College or School, and Major Requirements

In addition to General Studies requirements, students must also complete college or school, and major requirements. Students are encouraged to work with their academic advisors to develop a program of study that efficiently meets all graduation requirements. A well-planned program should enable a student to concurrently satisfy requirements at the university, college, or school levels, and within their major.

GENERAL STUDIES COURSES

The courses in the "General Studies Courses" table, page 96, satisfy the requirements of the five core areas and three awareness areas. General Studies courses are regularly reviewed. Since courses are occasionally added to and deleted from the list, students should always consult the

Schedule of Classes each semester to see which courses currently meet the General Studies requirement.

A student receives the General Studies credit a course carries in the semester in which the course is taken.

The "Key to General Studies Credit Abbreviations" table, on this page, defines the abbreviations used. General Studies courses are also identified following course descriptions.

The campus codes—such as "M" (for Tempe campus) and "W" (for West campus)—identify the campus that maintains academic control over the course (i.e., course content, registration restrictions, General Studies designations, and other curricular matters). The campus code appears in the *Schedule of Classes*, on transcripts, and other enrollment and registration records.

Key to General Studies Credit Abbreviations

Code	Description
L	Literacy and critical inquiry core courses
MA	Mathematics core courses
CS	Computer/statistics/quantitative applications core courses
HU	Humanities, fine arts, and design core courses
SB	Social and behavioral sciences core courses
SQ	Natural science—quantitative core courses
SG	Natural science—general core courses
C	Cultural diversity in the United States courses
G	Global awareness courses
H	Historical awareness courses
/	Or
,	And



Student Recreation Complex at dusk

Tim Trumble photo

GENERAL STUDIES COURSES

General Studies Courses

			L	MA	CS	HU	SB	SQ	SG	C	G	H
---	493	Honors Thesis (See "Honors Courses," page 63. Only three semester hours may fulfill L requirement.)	L									
D	BIS	301 Foundations of Interdisciplinary Studies	L									
		402 Senior Seminar	L									
D	HCR	210 Clinical Health Care Ethics				HU						
		220 Health Care Organizations (Cross-listed as HSM 220)										H
		230 Culture and Health								C	G	
D	NUR	362 Professional Development II: Nursing Research	L									
		391 Registered Nurse Mobility I: Professional Development	L									
		461 Professional Development III: The Art of Nursing				HU						
D	REC	120 Leisure and the Quality of Life					SB					
		160 Leisure and Society					SB					
		305 Introduction to Travel and Tourism									G	
		330 Programming of Recreation Services	L									
		380 Wilderness and Parks in America					SB					H
		458 International Tourism									G	
D	SWU	171 Introduction to Social Work					SB					H
		295 Foundations of Social Work Practice					SB			C		
		301 Human Behavior in the Social Environment I	L				SB					
		321 Statistics for Social Workers			CS							
		340 Human Behavior in the Social Environment II					SB					
		374 Diversity and Oppression in a Social Work Context								C		
		437 Infant Family Assessment and Observation (Cross-listed as CDE 437)	L				SB					
		493 Honors Thesis	L									
D	UNI	402 Service Learning								C		
E	ABS	130 Introduction to Environmental Science						SQ				
		225 Soils (if credit also earned in ABS 226)						SQ				
		226 Soils Laboratory (if credit also earned in ABS 225)						SQ				
		260 Fundamentals of Urban Horticulture							SG			
		350 Applied Statistics			CS							
		480 Ecosystem Management and Planning	L									
E	AGB	161 Computer Applications for Agribusiness Industries			CS							
		258 International Agribusiness									G	
		360 Agribusiness Statistics			CS							
		414 Agribusiness Analysis	L									
		450 International Agricultural Development									G	
		451 Management Science			CS							
		455 Resource Management					SB					
E	AMT	308 Air Transportation									G	
E	APM	301 Introductory Statistics			CS							
E	ASC	315 Numeracy in Technology		MA								
		325 Physical Sciences in Technology						SQ				
E	CST	150 Digital Systems I			CS							
E	EDC	340 Writing and the Professional Educator	L									
E	ETC	100 Languages of Technology			CS							
E	ETM	428 International Environmental Management									G	
E	EXW	100 Introduction to Health and Wellness (Cross-listed as HES 100/KIN 100)					SB					
		300 Foundations of Exercise and Wellness	L				SB					
		310 Computer Skills and Technology for Exercise and Wellness			CS							
		442 Physical Activity in Health and Disease	L									
		450 Cultural and Social Issues in Exercise and Wellness					SB			C		
E	GIT	212 Computer-Aided Design and Drafting (CADD)			CS							
		312 3-D Computer Graphics Modeling and Representation			CS							
E	MET	416 Applied Computer-Integrated Manufacturing			CS							
E	NTR	300 Computer Applications in Nutrition			CS							
		344 Nutrition Services Management	L									

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	348					SB			C		
	350					SB					
	448	L									
	450					SB					
E	OMT 440									G	
E	TWC 200	L									
	301	L									
	400	L									
	401	L									
	411	L									
	421	L									
	431	L									
	446	L									
	447	L									
	454								C		
M	ACC 430	L									
M	AES 301	L									
	303	L									
	401	L									
M	AFH 202				HU					G	H
	333	L			HU				C		
	347				HU				C		
	353	L			HU				C		
	354	L			HU				C		
	459	L									
M	AFR 210								C		
	317					SB			C		H
	375					SB			C		
	460								C		
	493	L									
M	AFS 202					SB			C		H
	210								C		
	363					SB			C		H
	364					SB			C		H
	366					SB			C	G	H
	370					SB			C		
	466					SB				G	H
M	AIS 180								C		
	280								C		
	420	L									
M	ALA 100				HU					G	H
	200				HU					G	
	236			CS							
M	APA 200				HU	SB			C		
	210								C		
	310				HU				C		
	315				HU				C		
	330					SB			C		
	340				HU				C		
	345								C		H
	360				HU	SB			C		
	450					SB			C		
M	APH 300				HU					G	
	305				HU						H

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	313				HU					G	H
	314				HU					G	H
	411										H
	414										H
	444				HU						
	446				HU						
	447				HU						
M	ARA				HU						
	488				HU						
M	ARB									G	
	202									G	
M	ARS				HU						
	100				HU						
	101				HU						H
	102				HU						H
	201				HU					G	H
	202				HU					G	H
	250				HU						
	300				HU						
	302				HU					G	H
	340				HU						H
	362				HU						H
	400				HU						H
	402				HU						H
	404				HU						H
	406				HU						H
	410				HU						
	412				HU						H
	414				HU						H
	416				HU						
	418				HU						
	420				HU						H
	422				HU						
	424				HU						
	426				HU						H
	428				HU						H
	430				HU						H
	432				HU						H
	434				HU						
	436				HU						
	438				HU						H
	439				HU						H
	442				HU						
	458				HU						
	465				HU					C	H
	466				HU					C	H
	468				HU					C	H
	469				HU						H
	472				HU						
	473				HU						
	475				HU						
	480										
	485										
M	ART										
	346										
	470				CS						
M	ASB										
	202					SB				G	
	211					SB			C		H
	211				HU	SB				G	

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	222 Buried Cities and Lost Tribes: Our Human Heritage				HU	SB				G	H
	223 Buried Civilizations of the Americas				HU	SB				G	H
	231 Archaeological Field Methods							SG			
	240 Introduction to Southeast Asia (Cross-listed as GCU 240/HST 240/POS 240/REL 240)				HU	SB				G	
	252 Anthropology of Sports					SB				G	
	302 Ethnographic Field Study in Mexico	L				SB				G	
	311 Principles of Social Anthropology					SB					
	321 Indians of the Southwest	L				SB			C		H
	322 Peoples of Mesoamerica					SB				G	
	323 Indians of Latin America					SB				G	
	324 Peoples of the Pacific									G	
	325 Peoples of Southeast Asia									G	
	326 Human Impacts on Ancient Environments					SB					H
	330 Principles of Archaeology					SB					
	335 Prehistory of the Southwest					SB			C		H
	337 Pre-Hispanic Civilization of Middle America				HU	SB				G	H
	338 Archaeology of North America					SB					H
	351 Psychological Anthropology					SB					
	353 Death and Dying in Cross-Cultural Perspective				HU	SB				G	
	355 Shamanism, Healing, and Consciousness				HU	SB					
	361 Pleistocene Archaeology										H
	362 The Neolithic Revolution and Its Consequences										H
	366 African Archaeology: Precolonial Urban Culture (Cross-listed as AFS 366)					SB				G	H
	400 Cultural Factors in International Business									G	
	412 History of Anthropology	L				SB					
	416 Economic Anthropology	L				SB					
	462 Medical Anthropology: Culture and Health								C		
	466 Peoples and Cultures of Africa (Cross-listed as AFS 466)					SB				G	H
	471 Introduction to Museums	L									
	480 Introduction to Linguistics					SB					
	481 Language and Culture					SB					
	483 Sociolinguistics and the Ethnography of Communication					SB					
	489 Doing Research in Anthropology					SB					
M ASM	104 Bones, Stones, and Human Evolution					SB		SG			
	301 Peopling of the World					SB					
	342 Human Biological Variation							SG			
	344 Fossil Hominids										H
	348 Social Issues in Human Genetics					SB					
	452 Dental Anthropology							SG			
	455 Primate Behavior Laboratory	L									
M AST	111 Introduction to Solar Systems Astronomy (if credit also earned in AST 113)						SQ				
	112 Introduction to Stars, Galaxies, and Cosmology (if credit also earned in AST 114)						SQ				
	113 Astronomy Laboratory I (if credit also earned in AST 111 or 321)						SQ				
	114 Astronomy Laboratory II (if credit also earned in AST 112 or 322)						SQ				
	321 Introduction to Planetary and Stellar Astrophysics (if credit also earned in AST 113)						SQ				
	322 Introduction to Galactic and Extragalactic Astrophysics (if credit also earned in AST 114)						SQ				
M BCH	467 Analytical Biochemistry Laboratory	L									
M BIO	100 The Living World						SQ				
	187 General Biology I							SG			
	188 General Biology II						SQ				
	193 The Nature of Biological Science						SQ				
	201 Human Anatomy and Physiology I							SG			
	302 Cancer and Heart Disease	L									

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	303										
	304										
	314										
	316										H
	318										H
	319								G		
	321										
	343										
	406										
	410										
	414										
	415										
	416										
	426										
	428										
	446										
	470										
	493										
M	BME										
	100										
	202										
	413										
	423										
M	CCS										
	101										
	111										
	210										
	300										
M	CDE										
	232										
	430										
	437										
M	CED										
	111										
	250										
M	CEE										
	100										
	300										
	400										
	486										
M	CHE										
	100										
	461										
	462										
M	CHI										
	201										
	202										
	313										
	314										
	321										
	322										
	413										
	414										
M	CHM										
	101										
	107										
	113										
	114										
	115										
	116										
	117										
	118										
	231										

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
235 Elementary Organic Chemistry Laboratory (if credit also earned in CHM 231)						SQ				
240 Introduction to Physical Chemistry			CS							
303 Environmental Chemistry Laboratory (if credit also earned in CHM 348)	L									
348 Physical Chemistry Laboratory I (if credit also earned in only CHM 303 or both CHM 349 and 452)	L									
349 Physical Chemistry Laboratory II (if credit also earned in CHM 348 and 452)	L									
452 Inorganic Chemistry Laboratory (if credit also earned in CHM 348 and 349)	L									
M CIS 105 Computer Applications and Information Technology			CS							
440 Systems Design and Electronic Commerce	L									
M CLS 450 Principles of Clinical Laboratory Administration (if credit also earned in CLS 460)	L									
460 Principles of Clinical Laboratory Education (if credit also earned in CLS 450)	L									
M COM 100 Introduction to Human Communication					SB					
110 Elements of Interpersonal Communication					SB					
222 Argumentation	L									
225 Public Speaking	L									
230 Small Group Communication					SB					
241 Introduction to Oral Interpretation	L			HU						
250 Introduction to Organizational Communication					SB					
263 Elements of Intercultural Communication					SB			C	G	
308 Advanced Research Methods in Communication	L									
316 Gender and Communication					SB			C		
319 Persuasion and Social Influence					SB					
320 Communication and Consumerism					SB					
321 Rhetorical Theory and Research	L			HU						H
323 Communication Approaches to Popular Culture								C		
325 Advanced Public Speaking	L									
344 Performance of Oral Traditions				HU				C		
371 Language, Culture, and Communication					SB			C	G	
400 CIP: Communication in Professions				HU				C		
410 Interpersonal Communication Theory and Research					SB					
411 Communication in the Family					SB					
421 Rhetoric of Social Issues				HU						
426 Political Communication					SB					
441 Performance Studies				HU						
445 Narrative Performance				HU						
446 Performance of Literature Written by Women				HU				C		
450 Theory and Research in Organizational Communication					SB					
463 Intercultural Communication Theory and Research					SB				G	
M CON 101 Construction and Culture: A Built Environment				HU					G	H
389 Construction Cost Accounting and Control			CS							
472 Development Feasibility Reports	L									
495 Construction Planning and Scheduling			CS							
496 Construction Contract Administration	L									
M CSE 100 Principles of Programming with C++			CS							
101 Introduction to Engineering Design (Cross-listed as EEE 101)			CS							
110 Principles of Programming with Java			CS							
180 Computer Literacy			CS							
181 Applied Problem Solving with Visual BASIC			CS							
200 Concepts of Computer Science			CS							
205 Concepts of Computer Science and Data			CS							
210 Object-Oriented Design and Data Structures			CS							
423 Systems Capstone Project I	L									
424 Systems Capstone Project II	L									
438 Systems Programming	L									
461 Software Engineering Project I	L									
462 Software Engineering Project II	L									
485 Computer Science Capstone Project I	L									

GENERAL STUDIES COURSES

General Studies Courses (continued)

			L	MA	CS	HU	SB	SQ	SG	C	G	H
	486	Computer Science Capstone Project II	L									
M	CSH 270	Race and Ethnicity in American Cinema (Cross-listed as FMS 270)				HU				C		
	310	Chicana and Chicano Folklore				HU				C		
	350	Mexican and Mexican American Artistic Production				HU				C	G	
	351	Contemporary Chicana and Chicano Art				HU				C		
	363	Chicana and Chicano Literature (Cross-listed as ENG 363)	L			HU				C		
	485	Chicana Writers				HU				C		
M	CSS 330	Chicana and Chicano Politics and Policy								C		
	331	Policy Issues in Chicana and Chicano Urban Settings								C		
	335	Latino Health Issues					SB			C		
	336	Issues in Immigration and Migration								C		H
	432	Issues in Chicana and Chicano Gender								C		
M	DAH 101	Introduction to Dance									G	
	201	Dance in World Cultures				HU					G	
	300	Focus on Dance				HU						
	301	Philosophy and Criticism of Dance	L			HU						
	302	Cross-Cultural Dance Studies	L			HU					G	
	401	Dance History				HU						
M	DAN 323	Dance, Computers, and Multimedia			CS							
M	DSC 100	Introduction to Environmental Design				HU					G	H
	101	Design Awareness				HU					G	
	236	Introduction to Computer Modeling			CS							
M	ECN 211	Macroeconomic Principles					SB					
	212	Microeconomic Principles					SB					
	213	Honors Macroeconomics					SB					
	214	Honors Microeconomics					SB					
	306	Survey of International Economics (Cross-listed as IBS 306)					SB				G	
	313	Intermediate Macroeconomic Theory					SB					
	314	Intermediate Microeconomic Theory					SB					
	331	Alternative Economic Systems					SB				G	
	360	Economic Development					SB				G	
	365	Economics of Russia and Eastern Europe					SB				G	
	384	Economics of Social Behavior					SB					
	404	History of Economic Thought					SB					
	421	Earnings and Employment					SB					
	425	Introduction to Econometrics			CS							
	436	International Trade Theory					SB				G	
	438	International Monetary Economics					SB				G	
	441	Public Finance					SB					
	475	Capstone in Economics	L									
	493	Honors Thesis	L									
M	EDP 303	Human Development	L				SB					
	310	Educational Psychology (Three hours must be taken to secure SB credit.)					SB					
	454	Statistical Data Analysis in Education			CS							
M	EDT 321	Computer Literacy			CS							
	323	Computer Applications			CS							
M	EED 498	PS: Language and Learning	L									
M	EEE 101	Introduction to Engineering Design (Cross-listed as CSE 101)			CS							
	488	Senior Design Laboratory I	L									
	489	Senior Design Laboratory II	L									
M	ENG 200	Critical Reading and Writing About Literature	L			HU						
	201	World Literature				HU					G	H
	202	World Literature				HU						H
	204	Introduction to Contemporary Literature				HU						
	212	English Prose Style	L									
	215	Strategies of Academic Writing	L									
	216	Persuasive Writing on Public Issues	L									

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
217 Writing Reflective Essays	L									
218 Writing About Literature	L			HU						
221 Survey of English Literature				HU						
222 Survey of English Literature				HU						H
241 Literatures of the United States to 1860				HU						
242 Literatures of the United States, 1860 to Present				HU						
245 Popular Culture Issues	L									
301 Writing for the Professions	L									
303 Classical Backgrounds of English Literature				HU						
312 English in Its Social Setting	L			HU	SB					
313 Phonology and Morphology	L									
321 Introduction to Shakespeare	L			HU						
326 English Drama 1660–1800				HU						
328 The Novel to Jane Austen				HU						H
329 19th-Century British Fiction	L			HU						
331 American Drama	L			HU						
333 American Ethnic Literature (Cross-listed as AFH 333)	L			HU				C		
337 Major American Novels	L			HU						
342 20th-Century British and Irish Literature				HU						
352 Short Story	L			HU						
353 African American Literature: Beginnings Through the Harlem Renaissance (Cross-listed as AFH 353)	L			HU				C		
354 African American Literature: Harlem Renaissance to the Present (Cross-listed as AFH 354)	L			HU				C		
355 European Dramatic Traditions	L			HU						
356 The Bible as Literature				HU						
359 American Indian Literatures	L			HU				C		
360 Western American Literature	L			HU						
363 Chicana and Chicano Literature (Cross-listed as CSH 363)	L			HU				C		
364 Women and Literature				HU						
365 History of Film				HU						
372 Document Production	L									
385 Career Development for English Majors	L									
400 History of Literary Criticism	L			HU						H
413 History of the English Language				HU						
415 Topics in Medieval Literature and Culture				HU						
416 Chaucer in Middle English				HU						
418 Renaissance Literature	L			HU						
419 English Literature in the Early 17th Century				HU						
421 Shakespeare				HU						
422 Studies in Shakespeare				HU						
423 Renaissance Drama	L			HU						
424 Milton				HU						
425 Studies in Romanticism				HU						
427 Studies in 18th-Century Literature and Culture				HU						
430 Studies in Victorian Literature and Culture	L			HU						
434 Studies in the Literature and Culture of the Americas				HU				C		
440 Studies in American Literature and Culture				HU						
444 Studies in American Romanticism				HU						
445 Studies in American Realism	L			HU						
448 Studies in Irish Literature and Culture				HU						
452 Studies in the Novel				HU						
453 Studies in the American Novel				HU						
457 Studies in American Poetry				HU						
459 Studies in African American/Caribbean Literatures: African American Short Story (Cross-listed as AFH 459)	L									
461 Studies in Women and Literature				HU						

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	464				HU						
	469				HU						
	470				HU						
	471				HU						
	472	L									
	476				HU						
	478				HU						
	480	L									
	482	L									
	493	L									
M FAS	330					SB					
	331					SB					
	332					SB					
	361	L									
	370					SB			C		
	431					SB					
	435	L				SB					
M FIN	456									G	
	461	L									
M FLA	150				HU					G	
	323	L			HU					G	
	400					SB					
	420				HU					G	
	421	L			HU					G	
M FMS	110	L			HU						
	200				HU						
	270				HU				C		
	300				HU						
	340				HU						
	351	L									
	440				HU				C		
	441				HU					G	
	450	L			HU						
	460				HU						
	461				HU						
	480				HU					G	
	490				HU						
M FRE	201									G	
	202									G	
	205									G	
	207									G	
	311									G	
	312									G	
	319									G	
	321	L			HU						H
	322	L			HU						
	411									G	
	412									G	
	415				HU						
	416				HU					G	
	441				HU						
	442				HU						H
	445	L			HU						
	452				HU						
	453	L			HU						
	461				HU						
	462				HU						

GENERAL STUDIES COURSES

General Studies Courses (continued)

			L	MA	CS	HU	SB	SQ	SG	C	G	H
	471	The Literature of Francophone Africa and the Caribbean	L			HU						
M	FSE 200	Elements of Engineering Design			CS							
M	GCU 102	Introduction to Human Geography					SB					
	121	World Geography					SB				G	
	141	Introduction to Economic Geography					SB				G	
	240	Introduction to Southeast Asia (Cross-listed as ASB 240/HST 240/POS 240/REL 240)				HU	SB				G	
	253	Introduction to Cultural and Historical Geography					SB				G	
	322	Geography of U.S. and Canada					SB			C		
	323	Geography of Latin America					SB				G	
	325	Geography of Europe					SB				G	
	326	Geography of Asia					SB				G	
	327	Geography of Africa					SB				G	
	328	Geography of Middle East and North Africa					SB				G	
	332	Geography of Australia and Oceania					SB				G	
	344	Geography of Hispanic Americans					SB			C		
	350	The Geography of World Crises					SB				G	
	351	Population Geography					SB				G	
	352	Political Geography					SB				G	
	357	Social Geography					SB					
	359	Cities of the World I					SB				G	H
	360	Cities of the World II					SB				G	
	361	Urban Geography					SB					
	364	Energy in the Global Arena					SB				G	
	421	Geography of Arizona and Southwestern United States					SB			C		
	423	Geography of South America					SB				G	
	424	Geography of Mexico and Middle America					SB				G	
	425	Geography of the Mexican American Borderland	L				SB				G	
	426	Geography of Russia and Surroundings					SB				G	
	432	Geography of China					SB				G	
	441	Economic Geography					SB					
	442	Geographical Analysis of Transportation					SB					
	444	Geographic Studies in Urban Transportation					SB					
	455	Historical Geography of U.S. and Canada					SB					H
	474	Public Land Policy					SB					
	495	Quantitative Methods in Geography			CS							
	496	Geographic Research Methods	L									
M	GER 201	Intermediate German									G	
	202	Intermediate German									G	
	311	German Conversation									G	
	312	German Conversation									G	
	313	German Composition									G	
	319	Business Correspondence and Communication									G	
	411	Advanced Grammar and Conversation									G	
	412	Advanced Grammar and Composition									G	
	415	German Civilization				HU					G	H
	416	German Civilization				HU					G	H
	421	German Literature				HU						
	422	German Literature	L			HU						
	453	German Literary Masterpieces on Film				HU					G	
M	GLG 101	Introduction to Geology I (Physical) (for SQ credit, if credit also earned in GLG 103)						SQ			G	
	102	Introduction to Geology II (Historical) (for SG credit, if credit also earned in GLG 104)							SG			H
	103	Introduction to Geology I—Laboratory (if credit also earned in GLG 101)						SQ				
	104	Introduction to Geology II—Laboratory (if credit also earned in GLG 102)							SG			
	105	Introduction to Planetary Science							SG			

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	110							SG		G	
	(for SG credit, if credit also earned in GLG 111)										
	111							SG			
	402								C		
	410			CS							
	451	L									
	452	L									
M	GPH						SQ				
	210									G	
	211	L									
	212						SQ				
	213							SG			
	214						SQ				
	215							SG			
	314				HU					G	
	370			CS							
	371			CS							
	373			CS							
	381									G	
	402								C		
	414									G	
	418	L									
	433									G	
	471			CS							
	473			CS							
M	GRA				HU						
	111										
	345	L									
M	GRK				HU						
	301										
	302				HU						
M	GRN					SB					
430	Multidisciplinary Approaches to Gerontology										
M	HEB									G	
	201										
	202									G	
	375				HU					G	
M	HES					SB					
	100										
M	HON				HU						H
	171	L									
	172	L			HU						H
	371	L			HU						
	372	L			HU					G	
	373	L			HU						
	374	L			HU					G	
	375	L			HU						
	376	L			HU						
	377	L			HU						
	378	L			HU					G	H
	379	L			HU					G	
	493	L									
M	HPS				HU						
	314										
	322				HU						H
	323				HU						H
	325				HU					G	H
	330										H
	331										H
	336					SB					H
	377	L			HU						
	410	L									
M	HSM										H
	220										
M	HST				HU					G	H
	101										

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
102 Western Civilization					SB					H
103 Western Civilization				HU	SB					H
104 Western Civilization				HU	SB				G	H
105 Slavic Civilization				HU	SB					H
106 Asian Civilizations				HU	SB				G	H
107 Asian Civilizations					SB				G	H
108 Introduction to Japan					SB				G	H
109 The United States to 1865				HU	SB					H
110 The United States Since 1865					SB					H
200 Historical Themes					SB					H
201 Historical Themes in Asia					SB					H
202 Historical Themes in Europe				HU	SB					H
203 Historical Themes in Latin America					SB					H
204 Historical Themes in the United States					SB					H
210 American Social History	L				SB					H
211 American Jewish History					SB					H
240 Introduction to Southeast Asia (Cross-listed as ASB 240/GCU 240/POS 240/REL 240)				HU	SB				G	
300 Historical Inquiry	L			HU	SB					H
302 Studies in History				HU	SB					H
303 Studies in Asian History					SB					H
304 Studies in European History					SB					H
305 Studies in Latin American History				HU	SB					H
306 Studies in United States History				HU	SB					H
309 Exploration and Empire	L			HU						H
310 Film as History				HU						
313 American Cultural History to 1865					SB					H
314 American Cultural History Since 1865				HU	SB					H
315 Political History of the United States					SB					H
316 20th-Century U.S. Foreign Relations					SB				G	H
319 U.S. Urban History to 1850					SB					H
320 U.S. Urban History Since 1850					SB					H
321 Constitutional History of the United States to 1865					SB					H
322 Constitutional History of the United States Since 1865					SB					H
325 Immigration and Ethnicity in the United States					SB			C		H
327 Women in U.S. History, 1600–1880				HU	SB			C		H
328 Women in U.S. History, 1880–1980					SB			C		H
329 Women in 20th-Century U.S. West								C		H
330 Mexican Women in the United States: Conquests and Migrations	L				SB			C		H
331 Mexican American History to 1900					SB			C		H
332 Mexican American History Since 1900					SB			C		H
333 African American History to 1865 (Cross-listed as AFS 363)					SB			C		H
334 African American History Since 1865 (Cross-listed as AFS 364)					SB			C		H
337 American Indian History to 1900					SB			C		H
338 American Indian History Since 1900					SB			C		H
341 The U.S. West in the 19th Century					SB					H
342 The U.S. West in the 20th Century					SB					H
343 The American Southwest	L				SB					H
344 Arizona					SB					H
347 Ancient Greece					SB					H
348 Rome					SB					H
349 The Early Middle Ages				HU	SB					H
350 The Later Middle Ages				HU	SB					H
351 Renaissance Europe	L			HU	SB					H
352 Europe's Reformations	L			HU	SB					H
353 The Old Regime in Europe					SB					H
354 Revolutionary Europe					SB					H

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
355 Total War and the Crisis of Modernity					SB				G	H
356 Europe Since 1945					SB				G	H
358 Jewish History from the Bible to 1492					SB					H
359 Jewish History from 1492 to 1948					SB				G	H
361 Witchcraft and Heresy in Europe (Cross-listed as REL 374)	L			HU						H
362 Sex and Society in Classical and Medieval Europe					SB					H
363 Sex and Society in Early Modern Europe				HU	SB					H
364 Sex and Society in Modern Europe	L				SB					H
365 Women in Europe	L			HU	SB					H
366 England to 1689					SB					H
367 Modern Britain					SB					H
368 Culture and Imagination in European History				HU						H
370 Eastern Europe in Transition					SB				G	H
372 The Modern Middle East					SB				G	H
375 Colonial Latin America					SB					H
376 Modern Latin America					SB					H
377 Women in Colonial Latin America										H
378 Latin American Women: The National Period					SB				G	H
379 Rebellion and Revolution in South America					SB					H
380 Cultural History of Latin America					SB					H
383 China					SB					H
384 China					SB				G	H
385 Chinese Science and Medicine (Cross-listed as HPS 325)				HU					G	H
386 Interpreting China's Classics (Cross-listed as HUM 312)	L			HU						H
387 Japan	L				SB					H
388 Japan					SB				G	H
391 Modern Southeast Asia					SB				G	H
405 Colonial American History to 1763					SB					H
406 The American Revolution, 1763–1789					SB					H
407 The Early U.S. Republic, 1789–1850	L				SB					H
408 Civil War and Reconstruction	L				SB					H
409 The Emergence of the Modern United States, 1877 to 1918					SB					H
410 The Modern United States, 1918 to 1945					SB					H
411 The Postwar United States, 1945 to 1973					SB					H
412 The Contemporary United States, 1973 to the Present					SB					H
414 The Modern U.S. Economy					SB					H
415 Unequal Sisters: Women and Political and Cultural Change	L				SB			C		H
417 Topics in Mexican American History					SB			C		H
423 The Tudor Monarchy					SB					H
424 The Stuart Transformation of England					SB					H
426 The British Empire					SB					H
427 The French Revolution and the Napoleonic Era					SB					H
428 Modern France					SB				G	H
429 Modern Germany					SB				G	H
430 Hitler: Man and Legend					SB					H
431 Eastern Europe and the Balkans Before 1914					SB					H
432 Eastern Europe and the Balkans in the 20th Century					SB				G	H
435 The Russian Empire					SB					H
436 The Soviet Experiment					SB				G	H
437 Spain Through the Golden Age				HU	SB					H
438 Modern Spain				HU	SB				G	H
443 The United States and Latin America					SB				G	H
445 20th-Century Cuba					SB				G	H
446 Colonial Mexico					SB					H
447 Modern Mexico					SB					H
451 Chinese Cultural History				HU	SB					H
452 Chinese Cultural History					SB				G	H

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	453					SB				G	H
	455					SB				G	H
	456					SB				G	H
	493										
	498										
M	HUM										
	110				HU						
	200				HU						
	310				HU						H
	312				HU						H
	401				HU						H
	420				HU					G	H
	440				HU				C		
	462				HU	SB					
	465				HU						
	498				HU						
M	IBS										
	300										G
	306					SB					G
	400								C		G
	459										G
	493										
M	IDN										
	201										G
	202										G
M	IED										
	407				HU				C		
	410					SB			C		H
	422								C		
	430				HU	SB			C		
	444					SB					
	455								C		
	460				HU	SB			C		H
M	IEE										
	100										CS
	280										CS
	305										CS
	368								L		
	369								L		
	376										CS
	385										CS
	463										CS
	474										CS
	475										CS
	490								L		
M	IND										
	316					HU					H
	317					HU					H
	470								L		
M	INT										
	111					HU					
	121										CS
	131										SB
	310					HU					H
	311					HU					H
	412					HU					
M	ITA										
	201										G
	202										G
	311										G
	312										G
	314										G
	325					HU					
	415					HU					G

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	425										
	430				HU						
	441				HU						
	443				HU						H
	446				HU						
	449				HU					G	
M	JMC	201									
		202									
		301									
		315									
M	JPN	201									G
		202									G
		311									G
		312									G
		313									G
		314									G
		321			HU						G
M	JUS	105				SB					
		200				SB					
		301				SB					
		302			CS						
		305				SB					
		320				SB			C		
		321				SB			C		
		329				SB					
		350				SB			C		
		360				SB					
		375				SB					
		385				SB					
		404									
		405				SB					G
		415									G
		420				SB			C		
		425				SB			C		
		430				SB			C		
		440									
		444							C		
		450									
		460							C		
		463				SB					
		465									
		469				SB			C		
		470				SB			C		
		474				SB			C		
		477				SB					
		479				SB					
M	KIN	100				SB					
		348				SB					
		352				SB			C		
		414									
		421									
		422									
		423									
		441									
		443									
		448									
		452				SB					

GENERAL STUDIES COURSES

General Studies Courses (continued)

			L	MA	CS	HU	SB	SQ	SG	C	G	H
	460	Theory of Strength Training	L									
M	KOR	201 Second-Year Korean I									G	
	202	Second-Year Korean II									G	
	250	Korean Culture and Society				HU					G	
	347	Korean Film and Literature				HU						
	350	Women of Korea										H
M	LAT	201 Intermediate Latin I				HU						
	202	Intermediate Latin II				HU						
	421	Roman Literature				HU						
	422	Roman Literature				HU						
M	MAE	100 Introduction to Mechanical and Aerospace Engineering			CS							
	453	Computer-Aided Manufacturing and Control (Cross-listed as IEE 463)			CS							
	468	Aerospace Systems Design	L									
	491	Experimental Mechanical Engineering	L									
M	MAT	119 Finite Mathematics		MA								
	142	College Mathematics		MA								
	170	Precalculus		MA								
	210	Brief Calculus		MA								
	251	Calculus for Life Sciences		MA								
	260	Technical Calculus I		MA								
	261	Technical Calculus II		MA								
	262	Technical Calculus III		MA								
	270	Calculus with Analytic Geometry I		MA								
	271	Calculus with Analytic Geometry II		MA								
	272	Calculus with Analytic Geometry III		MA								
	274	Elementary Differential Equations		MA								
	275	Modern Differential Equations		MA								
	290	Calculus I		MA								
	300	Mathematical Structures	L									
	351	Mathematical Methods for Genetic Analysis			CS							
	419	Introduction to Linear Programming			CS							
	421	Applied Computational Methods			CS							
	423	Numerical Analysis I			CS							
	425	Numerical Analysis II			CS							
	451	Mathematical Modeling			CS							
M	MBB	245 Cellular and Molecular Biology						SQ				
	343	Genetic Engineering and Society (Cross-listed as BIO 343)	L									
	490	Capstone: Issues in Biotechnology (must be taken twice to secure L credit)	L									
M	MCE	446 Understanding the Culturally Diverse Child								C		
M	MCO	110 Introduction to Mass Communication					SB					
	120	Media and Society					SB					
	402	Mass Communication Law	L									
	418	History of Mass Communication					SB					H
	430	International Mass Communication									G	
	450	Visual Communication				HU						
	456	Political Communication					SB					
	460	Race, Gender, and Media (Cross-listed as AFR 460)								C		
	473	Sex, Love, and Romance in the Mass Media					SB					
M	MGT	400 Cultural Factors in International Business (Cross-listed as IBS 400)								C	G	
	450	Changing Business Processes	L									
	459	International Management (Cross-listed as IBS 459)									G	
	460	Strategic Leadership	L									
M	MHL	201 MacLiteracy for Musicians			CS							
	344	Music in World Cultures				HU					G	
	352	The Evolution of Jazz										H
	363	Survey of Russian Music				HU						
	437	Topics in 17th-Century Music	L									

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	438										H
	439	L									H
	440	L									
	466	L			HU				C		
M	MIC							SG			
	205							SG			
	206										
	302	L									
	401	L									
	402								C		
M	MIS					SB					
	410					SB					
	412										
M	MKT										
	302	L									
	351	L									
M	MSE			CS							
	100										
	208						SQ				
	482	L									
M	MTE								C		
	402										
M	MUE										
	381	L									
M	MUS				HU						H
	340				HU				C		
	347				HU						H
	354				HU						
	355				HU				C		H
	356				HU						
	410				HU				C		H
M	PGS					SB					
	101					SB					
	222					SB					
	270					SB					
	304	L									
	306					SB					
	315					SB					
	341					SB					
	350					SB					
	351	L				SB					
	365					SB					
	414	L				SB					
	427	L				SB					
	441	L				SB					
	443	L				SB					
	444	L									
	445					SB					
	446	L									
	451	L									
	452	L									
	461					SB					
	465	L									
	466					SB					
	467	L									
M	PHI				HU						
	101				HU						
	103	L			HU						
	105				HU						
	300	L									
	301				HU						H
	302				HU						H
	304				HU						
	305				HU						
	306				HU						
	307				HU						

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
308				HU						
309				HU						
310				HU						
311				HU						
312				HU						
314				HU						
315				HU						
316				HU						
317				HU						
318				HU						
319			CS	HU						
325				HU	SB					
335				HU						
402				HU						
403				HU						
M PHS 110						SQ				
208						SQ				
402								C		
M PHY 101						SQ				
111						SQ				
112						SQ				
113						SQ				
114						SQ				
121						SQ				
122						SQ				
131						SQ				
132						SQ				
150						SQ				
151						SQ				
201			CS							
252						SQ				
334										
420										
M PLA 101									G	
310										H
311				HU						
411										
420				HU						
485									G	
M PLB 108						SQ				
200						SQ				
201						SQ				
300							SG			
320									G	
402								C		
414										
430			CS							
432			CS							
M POR 201									G	
313									G	
314									G	
321				HU						
472				HU					G	
M POS 101					SB					
110					SB					

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
150 Comparative Government					SB				G	
160 Global Politics					SB				G	
220 Political Issues and Public Policy					SB					
230 Current Issues in National Politics	L				SB					
240 Introduction to Southeast Asia (Cross-listed as ASB 240/GCU 240/HST 240/REL 240)				HU	SB				G	
260 Current Issues in International Politics	L				SB				G	
270 American Legal System					SB					
300 Contemporary Controversies in Global Politics					SB				G	
301 Empirical Political Inquiry					SB					
305 Politics and Film					SB					
310 American National Government					SB					
313 The Congress					SB					
314 The American Presidency					SB					
315 The Supreme Court					SB					
316 State and Local Government					SB					
320 Public Administration					SB					
325 Public Policy Development					SB					
330 Contemporary Controversies in Domestic Politics					SB					
331 Public Opinion					SB					
332 American Political Parties					SB					
333 Interest Groups					SB					
336 Voters in America					SB					
340 History of Political Philosophy I				HU						H
341 History of Political Philosophy II				HU						H
346 Problems of Democracy				HU						
350 Comparative Politics					SB				G	
351 Democratization					SB				G	
355 Russia and Successor States					SB				G	
356 European Union					SB				G	
357 South Asia Politics					SB				G	
358 Southeast Asia					SB				G	
359 African Politics and Society					SB				G	
360 World Politics					SB				G	
361 American Foreign Policy					SB				G	
364 National Security, Intelligence, and Terrorism					SB					
370 Law and Society					SB					
401 Political Statistics			CS							
410 Governing American Cities					SB					
417 The Arizona Political System					SB					
426 Elements of Public Policy					SB					
431 Campaigns and Elections					SB					
433 Money and Politics					SB					
434 Media and Politics					SB					
435 Women and Politics					SB			C		
439 Minority Group Politics in America					SB			C		
442 American Political Thought				HU						
443 Topics in Contemporary Political Theory				HU						
445 Asian Political Thought					SB				G	
451 China, Japan, and the Koreans					SB				G	
452 China					SB				G	
453 South America					SB				G	
454 Mexico					SB				G	
455 Central America and the Caribbean					SB				G	
459 South and Southern Africa					SB				G	
463 Inter-American Relations					SB				G	
465 International Organization and Law					SB				G	

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	467					SB				G	
	468					SB				G	
	471					SB					
	472					SB					
	485					SB					
	486					SB				G	
	498										
M	PSY 230	L									
	290	L		CS				SG			
	330			CS							
	390	L									
	420	L									
	422	L									
	424	L									
	425	L									
	434	L									
	437	L									
	498	L									
M	PUP 100				HU					G	H
	190				HU	SB				G	
	200				HU						H
	301	L									
	412										H
	420				HU						
	445								C		
	452	L									
	485									G	
M	QBA 221			CS							
M	REL 100				HU					G	
	200	L			HU					G	
	201	L			HU				C		
	202				HU						
	203				HU						H
	210	L			HU						H
	225				HU				C		
	240				HU	SB				G	
	260				HU					G	
	270				HU						
	301				HU						
	305	L			HU						
	310				HU						H
	315	L			HU						H
	317				HU						H
	318				HU	SB			C		
	320				HU				C		H
	321				HU				C		H
	322				HU				C		
	323				HU				C		
	326				HU				C		
	330				HU				C		
	331	L			HU				C		H
	332				HU					G	
	343	L			HU					G	H
	344				HU					G	
	345				HU					G	

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	350				HU					G	
	351				HU					G	
	355				HU						H
	365				HU						H
	366				HU					G	H
	371				HU						
	372				HU						H
	374				HU						H
	377				HU						H
	379				HU					G	
	381				HU						
	382				HU						
	385				HU						
	386				HU	SB					
	390				HU					G	
	410				HU						H
	420				HU						
	427				HU						H
	444				HU					G	H
	460				HU					G	
	470				HU						H
	471				HU						H
	480									G	
M RUS	201									G	
	202									G	
	211									G	
	212									G	
	311									G	
	312									G	
	321									G	
	321				HU						H
	322				HU						
	323				HU					G	
	411									G	
	412									G	
	420				HU						
	421				HU						
	423				HU						
	424				HU						
	425				HU						
	430				HU						
	441				HU					G	H
M SCA	250				HU					G	H
	316				HU					G	
	450				HU						
M SCM	432										
M SGS	103					SB				G	
M SHS	367					SB					
	465					SB					
M SLV	304			CS							
	426				HU					G	
	440										
M SOC	101					SB					
	220					SB					
	270					SB			C		
	301					SB					
	312					SB					
	315					SB					

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
321 Sociology of Work					SB					
331 Environmental Sociology					SB				G	
332 Urban Sociology					SB				G	
333 Population					SB				G	
334 Technology and Society					SB					
340 The Sociology of Deviance					SB					
341 Modern Social Problems					SB					
352 Social Change					SB				G	H
360 Sociological Psychology					SB					
363 Men and Masculinity					SB					
365 Sociology of Mass Communication					SB					
375 Contemporary American Jewish Identities (Cross-listed as REL 318)				HU	SB			C		
390 Social Statistics I			CS							
391 Sociological Research					SB					
415 The Family					SB					
416 Marriage Problems in Contemporary Society	L				SB					
417 Family Violence					SB					
418 Aging and the Life Course					SB					
420 Sociology of Religion	L				SB					
421 Education and Society					SB					
423 Social Class and Stratification	L				SB					
424 Women and Health					SB					
427 Sociology of Health and Illness	L				SB					
429 Sociology of Law					SB					
433 Applied Demography					SB					
446 Sociology of Crime					SB					
448 Epidemics and Society					SB				G	
451 Comparative Sociology					SB				G	
464 Sociology of Women	L				SB			C		
474 African Americans in Modern Society					SB			C		
483 History of Social Thought					SB					
486 Contemporary Theory					SB					
M SPA 201 Intermediate Spanish									G	
202 Intermediate Spanish									G	
203 Intermediate Spanish for Bilinguals									G	
204 Intermediate Spanish for Bilinguals									G	
207 Spanish for International Professions II									G	
313 Spanish Conversation and Composition									G	
314 Spanish Conversation and Composition									G	
319 Business Correspondence and Communication									G	
325 Introduction to Hispanic Literature				HU						
412 Advanced Conversation and Composition									G	
413 Advanced Spanish Grammar									G	
420 Applied Spanish Linguistics	L									
421 Spanish in the Southwest	L				SB			C		
425 Spanish Literature				HU						
426 Spanish Literature				HU						
427 Spanish American Literature	L									
428 Spanish American Literature	L								G	
464 Mexican American Literature				HU				C		
471 Civilization of the Spanish Southwest				HU				C		
472 Spanish American Civilization				HU					G	H
473 Spanish Civilization				HU	SB				G	
485 Mexican American Short Story	L									
M SPE 311 Orientation to Education of Exceptional Children					SB			C		
M SPF 301 Culture and Schooling	L									
M STP 220 Conceptual Statistics			CS							

GENERAL STUDIES COURSES

General Studies Courses (continued)

			L	MA	CS	HU	SB	SQ	SG	C	G	H
	226	Elements of Statistics			CS							
	326	Intermediate Probability			CS							
	420	Introductory Applied Statistics			CS							
	429	Experimental Statistics			CS							
M	THA	201 Intermediate Thai I									G	
		202 Intermediate Thai II									G	
M	THE	100 Introduction to Theatre				HU						
		201 Film: The Creative Process I				HU						
		220 Principles of Dramatic Analysis	L									
		301 Film: The Creative Process II				HU						
		320 History of the Theatre I				HU						H
		321 History of the Theatre II				HU						H
		322 Theatre History and Culture				HU						H
		403 Independent Film				HU						
		404 Foreign Films and Filmmakers									G	
		405 Film: Great Performers and Directors				HU						
		406 American Multicultural Film				HU				C		
		423 African American Theatre								C		
M	THP	482 Theatre for Social Change								C		
M	VTN	201 Intermediate Vietnamese I									G	
		202 Intermediate Vietnamese II									G	
M	WSH	413 Lesbian, Gay, and Gender Studies				HU				C		
		464 Voices and Visions				HU				C		
		470 Women and Popular Culture				HU				C		
M	WST	100 Women and Society					SB			C		
		300 Women in Contemporary Society					SB			C		
		313 Women and Sexuality					SB					
		360 Women as Healers					SB				G	
		373 Latina/Chicana Issues					SB			C		
		375 Women and Social Change					SB			C		
		377 History of American Feminist Thought	L							C		
		378 Global Feminist Theory	L							C	G	
		380 Gender, Race, and Class	L				SB			C		
		457 Gender, Culture, and Development	L				SB				G	
		460 Women and the Body					SB			C		
		477 Women and Violence					SB			C		
W	ACO	100 Overview of Applied Computing			CS							
		101 Introduction to Computer Science			CS							
		102 Principles of Computer Science			CS							
		201 Data Structures and Algorithms			CS							
		210 Introduction to Systems Programming			CS							
		220 Introduction to Database Systems			CS							
W	AMS	219 Newspaper Production (Cross-listed as ENG 219)	L									
		301 Introduction to American Studies	L									
		310 History of American Systems to 1865 (Cross-listed as HIS 305)	L							C		H
		311 History of American Systems Since 1865 (Cross-listed as HIS 306)										H
		320 American Cultural History I (Cross-listed as HIS 303)					SB					H
		321 American Cultural History II (Cross-listed as HIS 304)					SB					H
		330 Introduction to American Lives				HU						
		417 Religious Traditions of the American Southwest								C		
		422 Studies in American Literature	L			HU						
		428 Chicano Cultures in the Southwest					SB					
W	ARS	101 Art of the Western World I				HU						H
		102 Art of the Western World II				HU						H
		438 Art of the 20th Century I				HU						
		439 Art of the 20th Century II				HU						H
W	ASB	102 Introduction to Cultural and Social Anthropology					SB				G	
		211 Women in Other Cultures				HU	SB				G	

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	311					SB				G	H
	340					SB				G	
	342					SB			C		
	346					SB			C		
	350				HU						
	353				HU	SB				G	
	440					SB				G	
	441					SB				G	
	442					SB					
	445					SB				G	
	447					SB			C		
W	AST 111						SQ				
	112						SQ				
	113						SQ				
	114						SQ				
W	BIO 100						SQ				
	187							SG			
	188						SQ				
W	BLE 312	L									
W	CHM 101						SQ				
	113						SQ				
	115						SQ				
W	CIS 200			CS							
W	COM 100					SB					
	124								C		
	222	L									
	225	L									
	230					SB					
	308	L									
	316								C		
	320					SB					
	321	L			HU						
	371									G	
	410					SB					
	411					SB					
	421				HU						
	422	L									
	450					SB					
	463					SB				G	
	471									G	
W	CRJ 100					SB					
	200					SB					
	303			CS							
	305								C		
	306								C		
	350					SB					
	470	L				SB					
	490	L									
W	CSE 180			CS							
W	ECN 211					SB					
	212					SB					
W	EDP 310					SB					
W	EDT 321			CS							
W	ENG 200	L			HU						
	219	L									
	221				HU						H

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	222				HU						H
	241				HU						
	242				HU						
	301										
	305	L			HU						
	311	L									
	316	L									
	317	L			HU					G	
	323	L									
	337	L			HU						
	352	L			HU						
	353	L			HU				C		
	354	L			HU				C		
	359	L			HU				C		
	360	L			HU						
	363				HU				C		
	365				HU						
	369				HU						
	386	L			HU						
	400	L			HU						H
	415				HU						
	418	L			HU						
	420	L			HU				C		
	431				HU						
	432				HU						
	437	L			HU						
	438	L			HU						
	450				HU						
	454	L			HU						
	455				HU						
	460	L			HU				C		
	462				HU					G	
	463				HU				C		
	465				HU						
	476	L			HU	SB			C		
	477	L			HU					G	
	478				HU						
	479				HU					G	
W	ETH					SB			C		
	300								C		
	310					SB					
W	FAS					SB					
	330					SB					
W	GCU					SB					
	102					SB					
	121					SB				G	
	253					SB				G	
	351					SB				G	
	357					SB					
	361					SB					
	373							SG			
W	GLB									G	
	401	L									
W	GLG							SG		G	
	110							SG			
	111							SG			
W	GRN					SB					
	400					SB					
	420					SB					
W	HIS					SB					H
	101					SB					

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	102					SB				G	H
	103					SB					H
	104					SB					H
	300										H
	301	L									H
	303					SB					H
	304					SB					H
	305	L							C		H
	306										H
	320					SB					H
	340					SB					H
	355									G	H
	356									G	H
	377										H
	378										H
	406	L				SB					H
	411	L				SB					H
	423					SB					H
	424					SB					H
	431					SB			C		H
	443					SB					H
	444					SB					H
	454									G	H
	462									G	H
	465									G	H
	469					SB				G	H
	498	L									
W HON	171	L			HU						H
	172	L			HU						H
W IAP	101				HU						
	300				HU						
	302				HU						
	304	L			HU						
	305	L			HU						
	307				HU					G	
	310				HU						
	361			CS							
	371	L			HU						
	471	L			HU						
	473	L			HU						
	474	L			HU						
W IAS	220	L			HU				C		
	300	L				SB					
	305					SB					
	310				HU						
	340				HU						
	406	L			HU						
	407	L			HU						
	408				HU						
	410	L			HU						
	411				HU						H
	420	L			HU				C		
	430	L			HU						
	477	L			HU					G	
W LSC	300	L									
	301							SG			
	310							SG			

GENERAL STUDIES COURSES

General Studies Courses (continued)

		L	MA	CS	HU	SB	SQ	SG	C	G	H
	311							SG			
	330									G	
	365							SG			
	410	L									
	415			CS							
	473	L									
W	MAT		MA								
	119		MA								
	142		MA								
	170		MA								
	210		MA								
	270		MA								
	271		MA								
	272		MA								
	411				HU						H
W	MUE				HU					G	
W	MUS				HU						H
	340				HU						H
	349				HU						
	354				HU						
	356				HU						
W	PGS					SB					
	101					SB					
	250					SB					
	304	L									
	306					SB					
	315					SB					
	341					SB					
	344	L				SB					
	350					SB					
	370					SB					
	385					SB					
	427					SB					
	442					SB					
	443	L				SB					
	446	L				SB					
	453					SB					
	465					SB					
	466					SB					
	473					SB					
	480					SB				G	
	482					SB					
W	PHI				HU						
	101				HU						
	103	L			HU						
	306				HU						
	340				HU						
	360				HU						
	406	L			HU						
	407	L			HU						
	408				HU						
W	PHY						SQ				
	101						SQ				
	111						SQ				
	112						SQ				
	113						SQ				
	114						SQ				
	408				HU						
W	POL					SB					
	101					SB					
	110					SB				G	
	160					SB				G	
	247					SB				G	
	260					SB				G	

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
310 American National Government: Ideas and Institutions					SB					H
313 The Congress					SB					
314 The American Presidency					SB					
320 Latino Politics					SB			C		
331 Public Opinion					SB					
336 Electoral Behavior					SB					
340 Political Theory				HU	SB					
350 Comparative Politics					SB				G	
360 World Politics Theory					SB				G	
361 American Foreign Policy					SB					
430 Race and Politics in the Americas					SB			C		
434 Media and Politics					SB					
435 Women, Power, and Politics					SB			C		
436 Gender, Sexuality, Nation-States					SB				G	
440 Political Futures through Science Fiction	L			HU						
446 Democracy				HU						
447 Citizenship, Nationalism, and Identity (Cross-listed as ASB 447/SBS 447)					SB			C		
453 Latin American Cities					SB				G	
454 Mexico: Politics, Economy, Cultures					SB				G	
460 Politics of Globalization					SB				G	
464 Border Cities: Action Research on Globalization					SB				G	
470 Law and the Political Order					SB					
480 Global Justice (Cross-listed as SBS 480)									G	
486 Global Political Economy					SB				G	
W PSY 230 Introduction to Statistics			CS							
290 Research Methods							SG			
324 Memory and Cognition					SB					
330 Statistical Methods			CS							
425 Biological Bases of Behavior	L									
W QBA 221 Statistical Analysis			CS							
W REL 100 REL 100 Religions of the World				HU					G	
200 The Study of Religious Traditions	L			HU					G	
201 Religion and the Modern World	L			HU						
202 Religion and Popular Culture				HU				C		
203 Saints and Sinners: Explorations in Sacred Biography				HU						H
320 Religion in America				HU						H
321 Religion in America	L			HU						H
390 Women and Religion	L				SB				G	
W RTM 120 Leisure and Quality of Life					SB					
302 Recreation and Tourism for Diverse Populations								C		
304 Recreation and Tourism Areas and Facilities Management	L									
373 Leisure Travel and Tourism					SB					
458 International Tourism									G	
W SBS 200 Introduction to Social and Behavioral Sciences					SB					
205 Cybercultures					SB					
300 Interdisciplinary Approaches to Social and Behavioral Sciences					SB					
301 Cultural Diversity	L				SB			C		
304 Social Statistics I			CS							
342 Mexico-U.S. Borderlands (Cross-listed as ASB 342/SOC 342)					SB			C		
351 Population Geography (Cross-listed as GCU 351)					SB				G	
404 Social Statistics II: Multivariate Analysis			CS							
430 Topics in Power/Knowledge					SB					
440 Family Studies					SB					
447 Citizenship, Nationalism, and Identity (Cross-listed as ASB 447/POL 447)					SB			C		
450 Topics in Local/Global					SB				G	
460 Urban Studies					SB					
480 Global Justice (Cross-listed as POL480)									G	

GENERAL STUDIES COURSES

General Studies Courses (continued)

			L	MA	CS	HU	SB	SQ	SG	C	G	H
W	SOC	101					SB					
		210					SB					
		301					SB					
		315					SB					
		324					SB					H
		328					SB				G	
		340					SB					
		341	L				SB					
		342					SB			C		
		352					SB				G	H
		353				HU	SB				G	
		354				HU						
		360					SB					
		364					SB					
		365					SB					
		366					SB					
		370					SB			C		
		400					SB					
		418					SB					H
		419									G	
		426					SB					
		443					SB				G	
		457					SB				G	
		486					SB					
W	SPA	313									G	
		314									G	
		412									G	
		426										
		464				HU				C		
		472				HU						
W	SPE	222					SB					
		310	L									
		320	L									
W	STP	220			CS							
		226			CS							
		420			CS							
W	SWU	171					SB					H
		301	L									
		331										H
		402					SB					
		474								C		
W	TEL	111					SB					
		212								C		
		315					SB					
W	THE	100				HU						
		300				HU						
		320				HU						H
		321				HU						H
W	WST	100					SB			C		
		276										H
		300					SB			C		
		320				HU				C		
		350					SB			C		
		370				HU				C		
		376	L							C		
		378	L							C	G	
		385					SB					

GENERAL STUDIES COURSES

General Studies Courses (continued)

	L	MA	CS	HU	SB	SQ	SG	C	G	H
390 Women and World Religions	L				SB				G	
431 Women and Film	L								G	
457 Women, Cultures, and Societies					SB				G	
467 Ethnic Women Writers (Cross-listed as ENG 460)	L			HU				C		
473 Latina/Chicana Representation					SB			C		
475 Women of the Diaspora Across Cultures				HU					G	
483 Contemporary Women Writers				HU					G	
487 Gender and International Development					SB				G	
498 Pro-Seminar: Theory and Method in Women's Studies	L									

Minors, Certificates, and Interdisciplinary Studies

Interdisciplinary studies are available to students through an interdisciplinary degree, such as the Bachelor of Interdisciplinary Studies, or an extensive choice of minors or certificates that may be taken in conjunction with other majors. Since interdisciplinary studies provide skills that support employment in a rapidly changing workplace, students are encouraged to consider these options. Consult the academic advisor in the appropriate major about the impact of enrolling in a minor or certificate program.

MINORS

A minor is an approved, coherent concentration of academic study in a single discipline, involving substantially fewer hours of credit than a corresponding major. Most ASU colleges offer undergraduate minors in addition to majors; see the "ASU Minors" table, page 127.

Students in most majors may pursue one or more minors and, upon successful completion of the prescribed course work, have that accomplishment officially recognized on the ASU transcript at graduation if (1) the college and/or department of the minor officially certifies, through established verification procedures, that all requirements for the minor have been met and (2) the college (and, in certain colleges, the department) of the student's major allows the official recognition of the minor.

A student wishing to pursue a specific minor should consult an academic advisor in the unit offering that minor to ensure that an appropriate set of courses is taken. The student should also consult with an academic advisor in the college or department of his or her major to make sure the college or department of the major allows the recognition of the minor.

Note: Certain major and minor combinations may be deemed inappropriate either by the college or department of the major or minor. Inappropriate combinations include (but are not limited to) ones in which an excessive number of courses in the minor are simultaneously being used to fulfill requirements of the student's major.

CERTIFICATES

Students may pursue some certificate programs along with a major and other certificate programs independently. Graduate certificates and postbaccalaureate certificates are available to students who already hold a bachelor's degree. For more information, see the "ASU Undergraduate Certificates" table, page 129; "ASU Postbaccalaureate Certificates" table, page 131; and "ASU Graduate Certificates" table, page 131. Graduate certificates constitute graduate work; postbaccalaureate certificates are distinct from graduate certificates and are an extension of the undergraduate curriculum.

INTERDISCIPLINARY STUDIES

Bachelor of Interdisciplinary Studies. For information about the Bachelor of Interdisciplinary Studies, see "School of Interdisciplinary Studies," page 139, or "Interdisciplinary Studies—BIS," page 214.

Energy Studies. An opportunity for instructional and research involvement in energy matters exists through at least two curricular paths: (1) general studies, which emphasize energy as an elective beyond the scope of a chosen major (for more information, call the coordinator of interdisciplinary studies in energy, at 480/965-4548); and (2) specific studies in the College of Design, for those pursuing the Master of Architecture degree or the Master of Science degree in Building Design.

Environmental Studies. The Global Institute of Sustainability, established originally in 1974 as the Center for Environmental Studies, encourages and coordinates interdisciplinary environment-related activities in the natural and social sciences within the university. The institute sponsors special courses, conferences, and workshops on environmental topics. Drawing from faculty and students throughout the university, the center participates in research and community programs relating to environmental problem areas. It does not formally offer courses or a degree program. For more information, see "Global Institute of Sustainability," page 51.

Gerontology. The university-wide Gerontology Program brings together faculty from three campuses and several disciplines to teach courses related to adult development and aging, to collaborate on gerontological research, and to participate in projects of service to older adults. Courses related to aging are taught throughout the university by faculty who are active contributors to research, theory, and public policy and practice. For more information, see "Gerontology," page 686, call 602/543-6642, or access www.west.asu.edu/chs/grm on the Web.

A graduate certificate and an undergraduate minor are available in Gerontology. The certificate consists of 21 semester hours—nine hours of required course work and 12 hours of electives. The minor consists of 18 semester hours—six hours of required course work and 12 hours of electives. In addition, gerontology provides students with opportunities to gain practical experience in working with elderly people. The program helps students find rewarding internships in community programs for older adults.

BIS Concentration. A concentration in gerontology is available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one

MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

ASU Minors

Minor	Administered By	Campus	Page
African and African American Studies	African and African American Studies Program	Tempe	519
American Indian Studies	American Indian Studies Program	Tempe	523
American Studies	Department of Language, Cultures, and History	West	654
Anthropology	School of Human Evolution and Social Change	Tempe	569
Applied Biological Sciences	East College	Polytechnic	219
Applied Psychology	East College	Polytechnic	225
Architectural Studies	School of Architecture and Landscape Architecture	Tempe	322
Art History	School of Art	Tempe	444
Asian Languages (Chinese/Japanese)	Department of Languages and Literatures	Tempe	582
Astronomy	Department of Physics and Astronomy	Tempe	625
Biochemistry	Department of Chemistry and Biochemistry	Tempe	529
Biological Sciences	School of Life Sciences	Tempe	602
Business ¹	W. P. Carey School of Business	Tempe	289
Chemistry	Department of Chemistry and Biochemistry	Tempe	529
Chicana and Chicano Studies	Department of Chicana and Chicano Studies	Tempe	533
Communication	Hugh Downs School of Human Communication	Tempe	564
Communication Studies	Department of Communication Studies	West	654
Computational Mathematical Sciences	Department of Mathematics and Statistics	Tempe	615
Dance	Department of Dance	Tempe	466
Design Studies	College of Design	Tempe	327 332
Early Childhood Education	Division of Curriculum and Instruction	Tempe	363
Economics for Students Planning a Career in Law	Department of Economics	Tempe	536
English	Department of Language, Cultures, and History	West	654
English with a Concentration in Linguistics	Department of English	Tempe	538
English with a Concentration in Literature	Department of English	Tempe	538
Ethnic Studies	New College of Interdisciplinary Arts and Sciences	West	654
Family and Human Development	Department of Family and Human Development	Tempe	544
Film and Video Studies	Department of Interdisciplinary Arts and Performance	West	710
Food and Nutrition Management	Department of Nutrition	Polytechnic	242
French	Department of Languages and Literatures	Tempe	583
General Economics	Department of Economics	Tempe	535
Geography	Department of Geography	Tempe	549
Geological Sciences	Department of Geological Sciences	Tempe	554
German	Department of Languages and Literatures	Tempe	583
Gerontology ²	Gerontology Program	West	654
History	Department of History	Tempe	558
	Department of Language, Cultures, and History	West	654
Human Nutrition	Department of Nutrition	Polytechnic	242
Interdisciplinary Arts and Performance	Department of Interdisciplinary Arts and Performance	West	654
Interdisciplinary Organizational Studies	Department of Social and Behavioral Sciences	West	654
Interior Design History	Department of Interior Design	Tempe	332
Italian	Department of Languages and Literatures	Tempe	583
Justice Studies	School of Justice and Social Inquiry	Tempe	573

¹ This minor is for nonbusiness majors only.

² This university-wide minor is administered by West campus.

MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

ASU Minors (continued)

Minor	Administered By	Campus	Page
Kinesiology	Department of Kinesiology	Tempe	578
Landscape Studies	School of Architecture and Landscape Architecture	Tempe	322
Life Sciences	Department of Integrated Natural Sciences	West	654
Mass Communication	Walter Cronkite School of Journalism and Mass Communication	Tempe	493
Mathematics	Department of Integrative Studies	West	654
	Department of Mathematics and Statistics	Tempe	615
Music	School of Music	Tempe	478
Philosophy	Department of Integrative Studies	West	654
	Department of Philosophy	Tempe	622
Physics	Department of Physics and Astronomy	Tempe	625
Political Science	Department of Political Science	Tempe	630
	Department of Social and Behavioral Sciences	West	654
Prelaw	College of Human Services	West	654
Psychology	Department of Psychology	Tempe	636
	Department of Social and Behavioral Sciences	West	654
Public Relations and Strategic Communications	Department of Communication Studies	West	654
Recreation Management	Department of Recreation and Tourism Management	West	689
	School of Community Resources and Development	Downtown	190
Religious Studies	Department of Religious Studies	Tempe	639
	New College of Interdisciplinary Arts and Sciences	West	654
Russian	Department of Languages and Literatures	Tempe	583
Small Business	East College	Polytechnic	226
Social and Behavioral Sciences	Department of Social and Behavioral Sciences	West	654
Social Welfare	School of Social Work	Downtown	196
Sociocultural Anthropology	Department of Social and Behavioral Sciences	West	654
Sociology	Department of Social and Behavioral Sciences	West	654
	Department of Sociology	Tempe	643
Spanish	Department of Language, Cultures, and History	West	654
	Department of Languages and Literatures	Tempe	583
Special Events Management	Department of Recreation and Tourism Management	West	654
Speech and Hearing Science	Department of Speech and Hearing Science	Tempe	646
Statistics	Department of Mathematics and Statistics	Tempe	615
Theatre	School of Theatre and Film	Tempe	486
Tourism	School of Community Resources and Development	Downtown	190
Tourism Management	Department of Recreation and Tourism Management	West	654
Urban Planning	School of Planning	Tempe	337
Wellness Foundations	Department of Exercise and Wellness	Polytechnic	234
Women and Gender Studies	Women and Gender Studies Program	Tempe	649
Women's Studies	Women's Studies Program	West	654
Youth Services Leadership	Department of Recreation and Tourism Management	West	690

¹ This minor is for nonbusiness majors only.

² This university-wide minor is administered by West campus.

MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

ASU Undergraduate Certificates

Certificate	Administered By	Campus	Page
Accelerated Financial Planner ¹	School of Extended Education	—	136
African and African American Studies Certificate	African and African American Studies Program	Tempe	519
American Indian Studies Certificate	American Indian Studies Program	Tempe	523
Asian Pacific American Studies Certificate	Asian Pacific American Studies Program	Tempe	524
Asian Studies Certificate	Center for Asian Studies	Tempe	509
ASU Skill Certificate	School of Extended Education	—	136
Automotive Entrepreneurs and Leaders, Certificate for ²	W. P. Carey School of Business	Tempe	294
Business English Certificate ¹	School of Extended Education	—	136
Certified Management Accountant ¹	School of Extended Education	—	137
Civic Education Certificate	Department of Political Science	Tempe	629
Classical Studies Certificate	Department of Languages and Literatures	Tempe	509
College of Liberal Arts and Sciences Enriched Certificate	College of Liberal Arts and Sciences	Tempe	509
Early Intervention Certificate	Department of Family and Human Development and School of Social Work	Tempe	196
East Asian Studies Certificate	Center for Asian Studies	Tempe	509
Ethics Certificate	Department of Philosophy	Tempe	622
Ethnic Studies, Certificate in	New College of Interdisciplinary Arts and Sciences	West	698
Film and Video Studies, Certificate in	Department of Interdisciplinary Arts and Performance	West	711
Fire Service Management Certificate ³	Department of Technology Management	Polytechnic	267
Geographic Information Science Certificate	Department of Geography	Tempe	511
Hazardous Materials and Waste Management Certificate	Department of Information and Management Technology	Polytechnic	265
Healthcare Organizations and Society, Certificate in	School of Life Sciences and the W. P. Carey School of Business	Tempe	511 295
History and Philosophy of Science Certificate	School of Life Sciences	Tempe	512
International Business Studies, Certificate in	W. P. Carey School of Business	Tempe	299
International Studies Certificate	Department of Political Science	Tempe	630
Islamic Studies Certificate	Department of Religious Studies	Tempe	512
Jewish Studies Certificate	Jewish Studies Committee	Tempe	512
Latin American Studies Certificate	Latin American Studies Center	Tempe	512
Leadership and Ethics	School of Public Affairs	Downtown	192
Lesbian, Gay, Bisexual, and Transgender Studies	College of Public Programs	Downtown	187
Medieval and Renaissance Studies Certificate	Arizona Center for Medieval and Renaissance Studies	Tempe	513
Multimedia Writing and Technical Communication Certificate	East College	Polytechnic	239
Nonprofit Youth and Human Service Leadership and Management: American Humanics Certificate	School of Community Resources and Development	Downtown	190
Public Administration and Public Management Certificate	School of Public Affairs	Downtown	192
Quality Analysis Certificate	W. P. Carey School of Business	Tempe	294
Russian and East European Studies Certificate	Russian and East European Studies Center	Tempe	513
Scandinavian Studies Certificate	Department of Languages and Literatures	Tempe	513

¹ This certificate is not for academic credit.

² This certificate is only for students in the W. P. Carey School of Business.

³ This program is also offered through the School of Extended Education.

MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

ASU Undergraduate Certificates (continued)

Certificate	Administered By	Campus	Page
Small Business and Entrepreneurship Certificate ²	W. P. Carey School of Business	Tempe	294
Southeast Asian Studies Certificate	Program for Southeast Asian Studies	Tempe	514
Spa Management	Department of Exercise and Wellness	Polytechnic	235
Supervisory and Management Skills Certificate ¹	School of Extended Education	—	137
Symbolic Systems, Certificate in	Department of Philosophy	Tempe	514
Technology Entrepreneurship	Ira A. Fulton School of Engineering	Tempe	378
Translation Certificate	Department of Languages and Literatures	Tempe	583
Women and Gender Studies, Certificate in	Women and Gender Studies Program	Tempe	649
Women's Studies, Certificate in	Women's Studies Program	West	655
Writing, Certificate in	Department of Language, Cultures, and History	West	655
	Department of English	Tempe	538

¹ This certificate is not for academic credit.

² This certificate is only for students in the W. P. Carey School of Business.

³ This program is also offered through the School of Extended Education.

double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 139.

MILITARY OFFICER TRAINING

U.S. Air Force and U.S. Army ROTC units are active on the ASU campus. See "Department of Aerospace Studies," page 515, and "Department of Military Science," page 620, for more information.

Defense Activity for Nontraditional Education Support.

ASU is a participating institution with Defense Activity for Nontraditional Education Support (DANTES) and is listed in the DANTES Directory of Independent Study. DANTES is an executive agency of the Department of Defense that provides educational support for the voluntary education programs of all services. The primary missions of DANTES are (1) to provide nationally recognized examination and certification programs as part of the voluntary education programs of the military services and (2) to facilitate the accessibility of high-quality independent institutions to service men and women.

WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION

Professional Student Exchange Program. Arizona residents who wish to attend professional schools of dentistry, occupational therapy, optometry, osteopathy, physician assistance, and veterinary medicine may enroll in professional programs in other states or at in-state private institutions since these programs are not available at Arizona's public universities. Through the exchange, the student receives preference in admission and pays only the resident

tuition fee at a public institution, or the difference between the Western Interstate Commission for Higher Education (WICHE) support fee and standard tuition at a private school. Applicants must be legal residents of Arizona for a minimum of five years before the commencement of training, and be U.S. citizens, and must have maintained at least average grades to be eligible to be certified for support through the WICHE program. Recipients are required to practice in Arizona one year for each year of support or repay 50 percent of the funds expended on their behalf plus interest.

For an application and more information, call the Arizona Board of Regents at 602/229-2500, or access the WICHE Web site at www.wiche.edu.

Western Undergraduate Exchange. Arizona residents may enroll in designated two-year and four-year public institutions and programs in other participating states at a reduced tuition level. Tuition for Western Undergraduate Exchange (WUE) studies is the regular in-state tuition plus 50 percent of that amount.

In all programs, the cost to WUE students is substantially less than nonresident tuition. Students do not need to demonstrate financial need to receive the WUE tuition benefit. WUE participating states are Alaska, Arizona, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, North Dakota, Oregon, South Dakota, Utah, Washington, and Wyoming.

Check the WICHE Web site at www.wiche.edu for a list of participating institutions and programs.

Concurrent and Dual Degrees. Graduate students have the opportunity to pursue more than one degree at the same time as part of an organized program. For more information, see the "Concurrent and Dual Degrees" table, page 169, and the *Graduate Catalog*.

MINORS, CERTIFICATES, AND INTERDISCIPLINARY STUDIES

ASU Postbaccalaureate Certificates

Certificate	Administered By	Campus	Page
Accountancy, Postbaccalaureate Certificate in	Department of Accounting	West	655
Communication and Human Relations, Postbaccalaureate Certificate in	Department of Communication Studies	West	655
Multimedia Writing and Technical Communication, Postbaccalaureate Certificate in*	East College	Polytechnic	239
Professional Accountancy, Postbaccalaureate Certificate in	Department of Accounting	West	655

* This program is also offered through the School of Extended Education.

ASU Graduate Certificates

Certificate	Administered By	Campus	Page
African and African Diaspora Studies, Graduate Certificate in ¹	African and African American Studies Program	Tempe	—
Asian Studies, Graduate Certificate in ^{1, 2}	Center for Asian Studies	Tempe	—
Atmospheric Science, Graduate Certificate in ¹	College of Liberal Arts and Sciences and Ira A. Fulton School of Engineering	Tempe	—
Epidemiology and Biostatistics, Graduate Certificate in ¹	School of Health Management and Policy	Tempe	—
Evidence-Based Practice in Nursing and Healthcare, Graduate Certificate in	College of Nursing	Downtown	178
Geographic Information Science, Interdisciplinary Certificate in ¹	College of Liberal Arts and Sciences and the Division of Graduate Studies	Tempe	—
Gerontology, Certificate in ^{2, 3}	Gerontology Program	West	686
Health Industry Leadership Graduate Certificate ¹	W. P. Carey School of Business	Tempe	—
Indian Law Certificate ¹	College of Law	Tempe	—
Institutional Research, Graduate Certificate in ^{1, 4}	College of Education	Tempe	—
Law, Science, and Technology, Certificate in ¹	College of Law	Tempe	—
Linguistics, Graduate Certificate in ¹	Committee on Linguistics	Tempe	—
Medieval Studies Certificate ¹	Arizona Center for Medieval and Renaissance Studies (ACMRS)	Tempe	—
Museum Studies Certificate ¹	School of Human Evolution and Social Change	Tempe	—
Nonprofit Leadership and Management Certificate	College of Public Programs	Downtown	187
Nurse Education in Academic and Practice Settings, Graduate Certificate in	College of Nursing	Downtown	178
Post-Bachelor's Artist Diploma ¹	School of Music	Tempe	—
Public Art, Graduate Certificate in ¹	Katherine K. Herberger College of Fine Arts	Tempe	—
Renaissance Studies Certificate ¹	ACMRS	Tempe	—
Scholarly Publishing Certificate ¹	Department of History	Tempe	—
Statistics, Certificate in ¹	Committee on Statistics and the Division of Graduate Studies	Tempe	—
Transportation Systems, Interdisciplinary Graduate Certificate in ²	Committee on the Interdisciplinary Graduate Certificate in Transportation Systems and the Division of Graduate Studies	Tempe	162

¹ For more information, see the *Graduate Catalog*.

² This program is also offered through the School of Extended Education.

³ This university-wide certificate program is administered by the West campus.

⁴ Applications for this program are not being accepted at this time.

University College

uc.asu.edu

Gail Hackett, PhD, Vice Provost and Dean

Academic Success and Engagement Programs	132
Academic Advising, Center for	133
Extended Education, School of	134
Distance Learning	135
Off-Campus Locations	135
Degree Programs	135
Certificates	136
Professional and Personal Development	137
Lectures	138
ASU at the Downtown Center	138
Interdisciplinary Studies, School of	139
University Support Services	141

OVERVIEW

University College is a university-wide enterprise committed to innovative, rigorous scholarship. The college offers each student the opportunity for success through integrated advising services, interdisciplinary studies, extended education, academic achievement programs, community engagement, and student-centered delivery models.

The college provides an exceptional education for students who are exploring and expanding their academic and career options. Individualized assistance, educational flexibility, and access to higher education are core values, and the graduates of the college are innovative, intellectually agile, and prepared to respond to the needs of a rapidly changing world.

University College is designed to respond to the needs of students throughout ASU. Initiatives that encourage discovery, inclusion, and engagement are found on each campus and beyond the physical boundaries of ASU. Programs on the Tempe campus focus on advising for exploratory students, the Bachelor of Interdisciplinary Studies degree program, and academic success and engagement programs. On the Polytechnic and West campuses, University College offers advising for exploratory students and academic success programs. The Downtown Phoenix campus is the administrative home of University College and, at this location, the college offers a wide range of courses across many disciplines, incubates new degree programs, develops and manages integrated student services, and advises students who want to explore majors and career paths. Through the School of Extended Education, all students are provided

access to continuing education and high-quality degree completion opportunities.

ACADEMIC SUCCESS AND ENGAGEMENT PROGRAMS

The mission of the Academic Success and Engagement Programs (ASEP) is to provide all ASU students avenues for increasing their level of academic performance and to enrich their university experience. Through its two components of Academic Success Programs and Academic Community Engagement Services, ASEP provides academic support and tutoring, numerous opportunities for community building, and various venues for experiential learning.

Academic Community Engagement Services

Academic Community Engagement Services (ACES) supports community-based learning activities appropriate for and beneficial to any ASU student and provides opportunities specifically for service learning and work-study eligible students. ACES programs offer an avenue for ASU students to enrich their education as they positively impact Phoenix-area communities. For more information, call 480/727-6382.

Service Learning Program. Students who enroll in the Service Learning Program credit-bearing internships participate in academically based service activities that

1. integrate and enhance academic curriculum and community experiences;
2. meet community-identified needs;
3. foster civic responsibility;
4. support reciprocal learning; and
5. include structured reflection time.

The Service Learning Program and associated departments offer all ASU students the opportunity to develop a sense of shared mission and community with their classmates as they provide educational support and enrichment to diverse groups of Phoenix-area children and adults in structured, supervised environments. These service internships can be “linked” to many different discipline areas. Most service learning students provide after-school tutoring or lead children in hands-on science and math activities. Footnote 34 denotes service learning sections in the *Schedule of Classes*.

America Reads and America Counts. Through the America Reads program, Federal Work-Study students are paid to work one-on-one with academically at-risk children in the community. The term *at-risk* describes children in grades 1 through 9 who live in low-income areas and are likely later to drop out of high school. The goal of the America Reads

tutoring program is to increase each child's literacy skills to grade level. In the after-school programs, tutors assist children with homework as well as create fun, hands-on activities to exercise academic skills. Tutors also assist preschool children in developing early literacy skills.

Through the America Counts program, Federal Work-Study students are paid to work with academically at-risk children (grades 1 through 3) in the community to increase math scores and comprehension. In these after-school programs, tutors assist children with homework and create hands-on activities to teach math concepts in fun ways.

Academic Success Programs

The Academic Success Programs are designed to help students succeed and excel in their course work and to assist them in developing the skills that will lead to their graduation from ASU.

Campus Match. Campus Match is a first-semester fall program that gives freshmen the opportunity to attend classes in small learning communities according to their academic interests. Students choose a cluster of classes from a wide variety of offerings. Each cluster is limited to 19 students who enroll in and attend classes together. All students attend a weekly seminar that facilitates their social and academic adjustment to the university.

Academic Success at the University Courses. The purpose of the UNI courses is to assist first-year, transfer, and reentry students in making a successful transition to the university. In these courses, students learn about university resources, policies and procedures, study skills, values and goal setting, human diversity, academic and career planning, and other skills.

UNI 100 is a comprehensive student success course designed to assist in the development of effective academic strategies and to promote an understanding of human diversity, values, and perspectives as they relate to overall student success at ASU. The course creates opportunities for students to understand themselves and others and become a successful part of the campus community.

ACADEMIC SUCCESS AT THE UNIVERSITY (UNI)

For more UNI courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

D UNI 100 Academic Success at the University. (3)

fall, spring, summer

Orientation to campus resources, study skills, and other academic and social issues for college students. Introduces an understanding of human diversity, values, and perspectives as they relate to student success. Lecture, seminar, discussion. Prerequisite: freshman or sophomore or transfer student.

D UNI 101 Student Success Seminar. (1)

fall and summer

Understanding human diversity, perspectives, and values as they relate to student success. Orientation to ASU resources, study skills, and academic and social issues for students. Seminar, discussion.

D UNI 402 Service Learning. (3)

fall and spring

K–12 tutoring and mentoring internship related to academic course work in multiple discipline areas. Requires weekly reflective reading and writing. May be repeated for credit. Internship. Fee.

General Studies: C

D UNI 484 Internship. (1–12)

fall, spring, summer

Topics may include the following:

- Service Learning Internship. (1–3)

1st–8th grade mentoring and academic enrichment related to academic course work in various discipline areas. Science Demos section involves presenting science demonstrations to 1st–8th grade children at their schools. No specialized knowledge required. Training provided. May be repeated for credit. Internship. Fee.

D UNI 494 Special Topics. (1–4)

fall and spring

Students chosen from among former Service Learning Program interns serve in leadership positions in various academic Community Engagement Services programs. May be repeated for credit. Internship.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Summer Bridge. Summer Bridge is a program designed to assist first-semester freshmen in making the transition from high school to university life. Summer Bridge is a five-week program that provides a full academic curriculum in conjunction with a rich student development experience. The program assists participants in acclimating to campus, accessing student support programs and services, and enhancing classroom and personal skills.

Writing Across the Curriculum. Writing Across the Curriculum (WAC) is designed to enhance the quality of writing and critical thinking skills of university students. WAC specialists consult with faculty on methods of developing and integrating writing assignments into course content. The specialists also provide customized, in-class writing workshops designed to assist students in researching and responding to writing assignments.

Writing Center. The Writing Center provides students with one-on-one and group tutoring in writing skills. Rather than proofreading or editing students' writing, the Writing Center teaches students the skills they need to improve their writing processes and products.

UNIVERSITY COLLEGE CENTER FOR ACADEMIC ADVISING

The mission of the University College Center for Academic Advising is to promote student development and success by helping students identify, clarify, and achieve their academic goals. Through individualized professional advising and teaching practices, University College academic advisors challenge and support students in their process of becoming self-directed, life-long learners.

The center provides advising for a diverse group of students, with a primary focus on all exploratory/undeclared students, and students who may be changing majors or transferring to ASU.

Academic advising is a partnership between the student and the advisor. Each has a mutual investment in the advis-

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

UNIVERSITY COLLEGE

University College Center for Academic Advising

Campus	Location	Telephone	Fax	Web Address
Downtown Phoenix	TBD	TBD	TBD	uc.asu.edu/advising
Polytechnic	CNTR Lower Level	480/727-1425	480/727-1714	www.poly.asu.edu/learningcenter
Tempe	UASB 129	480/965-4464	480/727-6156	uc.asu.edu/advising
Transfer Center and Alliance Advising	UASB 129	480/965-4464	480/727-6156	uc.asu.edu/advising
West	UCB 201	602/543-9222	602/543-4221	www.west.asu.edu/uc/advising.htm

ing and its outcome. Good academic advising is the foundation for successfully completing a bachelor’s degree.

Academic advisors assist students in selecting a major by suggesting complementary choices among the offerings in the ASU General Studies curriculum. Advisors also encourage students to explore and identify majors consistent with the students’ interests, values, and goals. Advisors help students understand university academic requirements, and policies and procedures.

See the “University College Center for Academic Advising” table, on this page.

ACADEMIC GOOD STANDING

For purposes of retention, academic good standing for exploratory/undeclared majors is defined in the “Academic Good Standing” table below.

Academic Good Standing	
Total Hours Earned	Minimum Cumulative GPA
24 or fewer	1.60
25–55	1.75
56 or more	2.00

A student who does not maintain the minimum GPA standard after each fall or spring semester is placed on academic probation. A student placed on academic probation or continuing probation must meet with an academic advisor before registration for the subsequent semester. A student placed on academic probation has one semester to raise his or her cumulative or semester GPA to meet the academic good standing criteria; otherwise, the student is disqualified. A student who has been disqualified is not permitted to enroll for the fall or spring semester.

Students who wish to choose exploratory/undeclared major status must be in good academic standing as defined above. Students may remain designated as exploratory/undeclared major status until they complete 87 semester hours. Students who have not declared a major by the time they have completed 87 semester hours are placed on hold, which prevents registration for future ASU semesters, until the student has declared a major.

School of Extended Education

www.asu.edu/xed
480/965-3986
ASUDC C319

Patricia A. Feldman, PhD, Interim Executive Director

The need for higher education is growing every day, and yet balancing work, family, and learning can be challenging. To help students fit higher education into their busy schedules, the School of Extended Education provides flexible scheduling, innovative technologies, and a vast network of off-campus sites. Programming includes credit classes, degree programs, certificates, and continuing education.

For more information, access the Web site at www.asu.edu/xed, or call 480/965-3986.

Credits, Tuitions, and Fees

Academic credits earned off-campus are equivalent in all considerations to those credits earned on-campus, and the credits are recorded on students’ permanent records. Courses are published each fall and spring semester in the *ASU Schedule of Classes* and on the Web at www.asu.edu/xed and asuonline.asu.edu.

Tuition and fees for off-campus credit courses are the same as those offered on a campus. (See resident and non-resident rates in the latest *Schedule of Classes*.) Before the 21st calendar day of the each semester, any combination of on-campus and off-campus resident credit courses resulting in a combined registration of seven or more semester hours requires that the student pay full-time tuition. Off-campus credit courses and programs that commence on or after the 21st calendar day of each semester require full-time and part-time students to pay tuition separate from (but in addition to) those courses starting before the 21st calendar day of the semester.

As a convenience to students, courses are conducted off campus in locations throughout the state, on campus in the evening, via the Internet and television, and during Winter Session. Academic credits earned off campus are equivalent in all considerations with credits earned on campus, and the credits are recorded on students’ permanent records. Courses are published each fall and spring semester in the

ASU *Schedule of Classes* and on the Web at www.asu.edu/xed and asuonline.asu.edu.

For more information, access the Web site at www.asu.edu/xed, or call 480/965-3986.

Evening Classes

Evening study is perfect for students with busy schedules. The School of Extended Education offers several program options.

Evening classes in English as a second language are offered at night at the Tempe campus. For details, see "English as a Second Language," page 137.

The Undergraduate Evening Degree Completion Programs are designed for the working student seeking a bachelor's degree. Students enrolled in these programs typically have completed 60 lower-division semester hours. For more information about these credit programs, see an advisor.

The Bachelor of Interdisciplinary Studies is offered at the Downtown Center at ASU. Students may earn their entire degree in downtown Phoenix. For more information, see an advisor.

The W. P. Carey MBA Evening Program offers working professionals a solid managerial degree at two locations: the Downtown Center and at the Tempe campus. For more information, see an advisor.

The Master of Public Administration offers several interdisciplinary courses during the evening at various locations, and the full program is available at the Downtown Center. For more information, see an advisor.

Weekend Courses

Each semester, ASU offers weekend courses that often are in a compressed format and involve meeting for several hours on select weekends. Some course work may be required outside of the regular course sessions. For a list of current courses, refer to the searchable online course schedule at www.asu.edu/xed. A student wishing to enroll in a weekend course should contact the appropriate department for details, including specific dates and requirements.

Winter Session

This is an intensive, condensed session offered between the fall and spring semesters. Students may enroll in one course and earn up to three semester hours of credit, which are recorded on fall transcripts. Courses are offered at the Tempe campus. Registration begins October 1 and courses start in late December. The School of Extended Education schedules the Winter Session courses in collaboration with the university's academic departments.

For more information, call 480/727-9900.

DISTANCE LEARNING

ASU offers more than 200 courses each semester through the Internet and television. Distance learning students complete the course work and exams for the same academic credit as students on campuses. However, they experience the added value and flexibility of earning credit at home or work. Distance learning students keep in touch with instructors and classmates through teleconferencing, e-mail, and discussion boards.

Internet

Online courses offer students a great deal of scheduling flexibility. Various university departments offer Internet classes. Through the Web, students can access lectures, participate in class assignments, interact with the instructor, collaborate with other students, and earn ASU credit at convenient times and locations. A computer, Internet access, e-mail, and a Web browser are necessary to participate in Web-based courses; however, specific equipment and software requirements may vary by course. Students register for Internet courses through the normal university admissions and registration process.

For more information, visit ASUonline, the university's gateway to the "online campus," at asuonline.asu.edu. Interested individuals may also write to distance@asu.edu, or call 480/965-9797.

Television

Televised courses make it possible for students to earn course credits by viewing class sessions and completing work assignments at home or work. Courses are available throughout the Phoenix area via public and cable television providers. Televised courses are also available in university residence halls at the Polytechnic and Tempe campuses. Most televised courses are available for viewing through University Libraries. Televised courses are listed each fall and spring in the ASU *Schedule of Classes* and online at asutv.asu.edu.

For more information about televised courses, send e-mail to asutv@asu.edu, or call 480/965-6738.

Public Sites. Certain sites provide the public with access to interactive television courses. Students can participate in most televised courses at locations such as the Downtown Center, the Polytechnic and West campuses, Cactus Shadows High School, and the Gila River Indian Community.

OFF-CAMPUS LOCATIONS

ASU classes are held at more than 200 off-campus sites throughout metropolitan Phoenix, the state, and beyond. Many neighborhood sites, such as community colleges, schools, churches, and businesses, serve as hosts to university courses. In addition, various technologies are used to deliver degree programs and credit courses to the workplace and home.

The anchor off-campus site is the Downtown Center, located in downtown Phoenix. The center is the educational hub for downtown workers, organizations, and residents, and serves as a meeting site for conferences and seminars.

For more information about off-campus sites, call 480/965-9797. For information about Internet, televised, and independent learning courses, call 480/965-6738.

DEGREE PROGRAMS

The School of Extended Education works in partnership with the colleges and schools of ASU to deliver a number of degrees and certificates. These programs are available to all

L literacy and critical inquiry / MA mathematics / CS computer/statistics/quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

UNIVERSITY COLLEGE

ASU Certificates Offered Through or by the School of Extended Education

Certificate Program	Administered By
Accelerated Financial Planner*	School of Extended Education
ASU Skill Certification*	School of Extended Education
Business English Certificate*	School of Extended Education
Certified Management Accountant*	School of Extended Education
Evidence-Based Practice in Nursing and Healthcare, Graduate Certificate in	College of Nursing
Fire Service Management, Certificate in	Department of Technology Management
Nurse Education in Academic and Practice Settings, Graduate Certificate in	College of Nursing
Supervisory and Management Skills Certificate*	School of Extended Education

* This certificate is not for academic credit.

students, and are particularly desirable to students who are unable to attend classes during regular school hours or at one of the four ASU campuses.

CERTIFICATES

Undergraduate Certificates

All certificates offered by the School of Extended Education or in collaboration with the other ASU colleges are shown in the "ASU Certificates Offered Through or by the School of Extended Education" table, on this page.

Fire Service Management Certificate. This online certificate program provides a robust educational experience that builds critical thinking, management, leadership, and communication skills.

The Fire Service Management Certificate is a one-year cohort-based program consisting of 18 semester hours of upper-division credit that can be transferred to an associate or bachelor degree. The program's core requirements focus on management, organization, professional communication, statistics, and computer competency.

Program faculty include highly respected fire service professionals and academics who have the appropriate credentials to teach at a Research Extensive university.

For complete program details, access the Web site at www.poly.asu.edu/ctas/imt/fire, or call 480/727-1321.

Graduate Certificates

Evidence-Based Practice in Nursing and Healthcare.

This certificate program is designed to prepare nurse clinicians and educators as experts in evidence-based practice (EBP) as system-wide change agents for the advancement and sustainability of EBP. This 17-semester-hour, 12-month program is user-friendly and constructed in a distance-learning, online format to facilitate involvement of the participants, regardless of where they live. Admission is once per year in January, and the program is designed to provide a cohort experience.

For more information, call 480/965-3244.

Nurse Education in Academic and Practice Settings.

This certificate program is designed to meet the growing challenges of a shortage of qualified nursing educators. Graduates will use theories of teaching and learning in aca-

demically and practice settings, with emphasis on nursing education.

For more information, call 480/727-6930, or access the program's Web site at www.nursing.asu.edu/ned.

Professional Development Certificates

All certificates offered by or in collaboration with the School of Extended Education are shown in the "ASU Certificates Offered Through or by the School of Extended Education" table, on this page.

Certificate programs provide opportunities to those seeking to advance their careers, begin a new career, reenter the workplace, or develop new knowledge. Certificates are a practical choice for career development; in addition, employers recognize them as evidence of professional skill or accomplishment. Some programs may offer academic credit and others may offer continuing education units through professional associations.

Accelerated Financial Planning Program. The Accelerated Financial Planning Program is designed to impart the education necessary to prepare students for the Certified Financial Planner (CFP) certification examination and to prepare them for a successful career in financial planning. This program consists of six courses and is specifically designed as an alternative distribution channel for financial services professionals seeking to attain the CFP designation in an accelerated format of seven to eight months.

For more information, call 480/965-9200.

ASU Skill Certification. Test skill levels online for dozens of job roles with targeted learning recommendations from ASU. Certification offers the potential for individuals to earn multiple job skill certifications online. Businesses may also utilize ASU Skill Certification to improve the skills of existing and potential employees.

For more information, call 480/965-9200.

Business English. This certificate program is designed to help professionals who speak English as a second language to succeed in business. It offers courses that use reading, writing, and discussion and presentation exercises designed to offer practical knowledge and confidence in American and international business practices. Once students successfully complete certificate courses, they earn a business

English certificate. Most classes are ongoing and meet three hours a week for eight weeks.

For more information, call 480/965-2376, or access the Web site at www.asu.edu/xed.

Certified Management Accountant. This program consists of three 24-hour courses and one 12-hour course, and is designed to prepare students for the Certified Management Accountant (CMA) examination. The CMA designation provides corporate management and individual members with an objective measure of knowledge and competence in the field of management accounting. The CMA is an invaluable credential for professional advancement and for broadening professional skills and perspective.

For more information, call 480/965-9200.

Supervisory and Management Skills. The Supervisory and Management Skills Certificate provides skill competency-based learning that is designed to develop the qualities of first-time and experienced supervisors and managers. This program is fully customizable and can be delivered live, online, or in a hybrid format.

For more information, call 480/965-9200.

PROFESSIONAL AND PERSONAL DEVELOPMENT

Ongoing continuing education programs address current issues and trends and are intended to increase competence in the topics. These programs are offered throughout the metropolitan Phoenix area.

English as a Second Language

This program offers specially designed intensive English language programs for international students and local residents who wish to improve their English proficiency. The TOEFL is not required for ASU graduate or undergraduate admission if international students successfully complete this program.

The intensive noncredit course of study is designed to help students become proficient in English as a second language. Beginning, intermediate, and advanced courses, divided into six language levels, provide instruction in listening, speaking, reading, and writing. Language-related computer skills, academic advising, and orientation to ASU, Arizona, and the United States are also integral elements of the program.

Most of the classes are offered during the day, but several evening classes also are available; these include American pronunciation, accent reduction, guided conversation, and business writing.

Some courses are offered that are specifically targeted to business professionals who speak English as a second language. These courses may lead to a certificate.

The fall and spring semesters are divided into two eight-week cycles. Students may enroll for one or more cycles. An eight-week summer session also is offered. Four-week sessions are also offered throughout the year.

While in the program, students have access to master's-level teachers, a student advisor, social and cultural activities, campus clubs, recreation facilities, credit classes, a graduate program, TOEFL and TOEIC testing, e-mail and the Internet, ASU facilities, and university housing and meals. Admission to the program does not constitute admis-

sion to ASU. Advanced-level students may be permitted to enroll concurrently in up to two ASU credit classes with the approval of the director. Several special classes are offered through the program: business English, pronunciation, conversation, TOEFL and TOEIC preparation, grammar, and idioms.

For more information, call 480/965-2376, or access the Web site at www.asu.edu/esl.

Hispanic Leadership Institute

This institute's goal is to promote the participation of Hispanics in leadership roles. It serves as a resource for expertise and advocacy on leadership issues affecting the Latino community. It is a 17-week program with evening sessions once a week. The program format is a combination of lectures, panel discussions, and individual and group discussions. Leadership topics include cultural identity, communication skills, activism, ethics, diversity and multicultural issues, resource development, research and development, and public administration and policy.

To apply or request more information, access the Web site at www.asu.edu/xed/hli, or call 480/965-9200.

Income Tax Practitioners' Workshop

Each January, the School of Extended Education offers a two-day workshop for tax preparers, CPAs, and other income tax professionals. These professionals learn the latest information about federal tax legislation and new tax provisions, tax credits, capital gains, and technology changes that affect business and profitability. Participants also may be eligible for 15 CPE hours from the Arizona Board of Accountancy. This program is presented by the three state universities in cooperation with the U.S. Internal Revenue Service and the Arizona Department of Revenue.

For more information, call 480/965-9200, or access the Web site at www.asu.edu/xed/tax.

Real Estate Continuing Education

Arizona real estate agents and brokers, even in the most rural communities of the state, can obtain the 24 hours of continuing education credits they need for license renewal through a series of Web-based, continuing education courses. Courses are offered in the following categories: commissioner's standards, contract law, agency law, fair housing, real estate legal issues, and disclosure.

For more information and to register online, access the Web site at www.asu.edu/xed/renewal.

Wealth Management

This program is a series of six evening classes that help personal investors manage their investments like a business. The program offers a comprehensive study of the major advancements and practical application in portfolio theory and provides proven strategies in issues such as asset allocation, risk management, international markets, taxation, estate planning, and performance measurement. Classes are held throughout the valley and at other locations in the state.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SQ natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

UNIVERSITY COLLEGE

For more information, call 480/965-9200, or access the Web site at www.asu.edu/xed/wealth.

LECTURES

A variety of special programs of academic and cultural interest as well as personal enrichment are provided to the general community. These lectures cover an array of topics and are offered in central Phoenix at the Downtown Center.

For more information about these programs, access the Web site at www.asu.edu/xed/lectures, or call 480/965-3046.

ASU Community Fellows Lecture Program

This program, offered each spring, is a catalyst in fostering partnerships among neighborhood, university, and business interests seeking to improve the quality of life valley-wide. It also facilitates mutual learning experiences.

Brown Bag Lunch Lectures

These lectures feature topics of interest to the general public and cover areas such as fine arts, urban issues, history, and culture. While many are stand-alone lectures, some are part of a series of topics in a particular interest area. Examples of topics include Analyze This..., Matters of the Mind, Health Matters, Here's to Your Job, Hispanic Heritage Month, Native American Recognition Month, Meet the Authors, Out to Lunch and Into the Arts, Substance Abuse Awareness, and You and Your Money.

Downtown and Gown

These lectures are designed to give central Phoenix residents and the business community a greater awareness of the rich array of talent and resources available at the university. ASU faculty and deans from each of the campuses present the lectures each fall and spring semester.

John F. Roatch Global Lectures in Social Policy and Practice

This lecture series is an annual event that brings an internationally known scholar to Arizona to lecture on a topic of global reach and social significance to the community. The John F. and Mary Roatch Endowment supports the lectures and occasionally sponsors additional events. A publication of each lecture is disseminated by the School of Extended Education and is deposited at University Libraries.

Linda Haskell Memorial Master Class on Current Social Events

This annual event invites an internationally known expert to lead an interactive forum to discuss current topics of concern to human services practitioners in Arizona.

Urban Issues Lecture Series

These lectures encourage discussions of national public policy and its impact on local policy and economic development. The series is offered in partnership with the Phoenix Community Alliance, the ASU College of Public Programs, and the Morrison Institute for Public Policy.

ASU AT THE DOWNTOWN CENTER

The center is an educational, applied research, and community service facility in downtown Phoenix. It is host to traditional and interdisciplinary undergraduate and graduate credit classes, professional and continuing education programs, and lectures and community forums. It is an educational hub for downtown workers, organizations, and residents, and serves as a meeting site for conferences and seminars.

Each classroom is equipped with a sound and video projection system, Ethernet connections, and the ability to receive satellite downlinks. Three rooms are equipped with receiving sites to interact with instructors during televised class sessions. ASU students, faculty, and staff may take advantage of wireless networks, two state-of-the-art computer labs, and Web stations throughout the facility. A lab assistant is available during posted hours. Students, faculty, and staff may also access the ASU University Libraries' online catalog, information, and resources. Students may order and return library books and order copied materials. Textbooks for all courses held at the center are available during the first week of classes each semester.

The center provides attractive accommodations for meetings and conferences. Room rentals may include advice in logistics planning, professional equipment, technical support (including two computer classrooms), and food and beverage service. Break-out areas are conveniently located throughout the facility. Rooms are also available to non-ASU organizations, in accordance with university policies and procedures.

The center's art gallery, the Galleria, features works by ASU faculty, staff, students, and local artists. Exhibits rotate monthly. The Galleria participates in monthly and annual art tours, including First Friday and Art Detour, sponsored by ArtLink, a local artists' group.

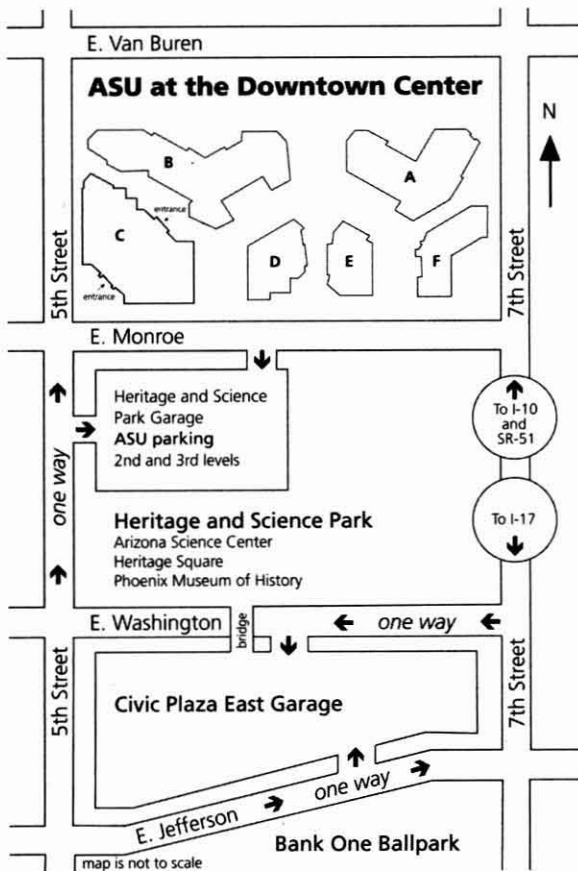
Convenient parking is available in the Heritage and Science Park garage on the corner of Fifth and Monroe Streets.

For more information about the programs and services provided at the center, call 480/965-3046, or write

ASU AT THE DOWNTOWN CENTER
502 E MONROE ST
PHOENIX AZ 85004-4442

Several ASU programs and partnerships are located at the center, including several University College administrative offices:

1. *Advanced Public Executive Program*, providing quality professional development and interventions tailored to the specific needs of public organizations;
2. *Arizona Prevention Resource Center*, a statewide resource on best practices for prevention providing assistance, training, grant writing, and evaluation services;



School of Interdisciplinary Studies

uc.asu.edu/sis

480/965-1970

UASB 203

Frederick C. Corey, Director

Senior Lecturers: Augsburg, McCormack, Nelson, Thomas, Wells

Lecturers: DeLusé, Ellsworth, Gneiting, Hirshorn, Krinsky, Lattouf, Lindquist

The School of Interdisciplinary Studies in University College advances intellectual fusion through innovative curricular developments and degree offerings. Objectives of the school are to offer a Bachelor of Interdisciplinary Studies degree that is innovative and rigorous, to provide course offerings for degree programs and exploratory students on the Downtown Phoenix campus, to incubate new degree programs on the Downtown Phoenix campus, to develop new degree programs in interdisciplinary and individualized studies, and to partner with the School of Extended Education to offer a range of degree completion programs.

The school is changing rapidly to respond to the needs of students on the Downtown Phoenix campus and, throughout the period of growth, the faculty and staff are keeping in the foreground core values of respect for the individual, integration of ideas, experiential education, and a commitment to community.

BACHELOR OF INTERDISCIPLINARY STUDIES

The Bachelor of Interdisciplinary Studies (BIS), the largest and one of the best recognized interdisciplinary studies degree programs in the nation, offers an innovative and rigorous degree to students whose academic and career interests are not satisfied by traditional majors. It provides students a remarkable freedom to choose from a rich menu of more than 100 disciplinary concentrations and to integrate multiple academic interests into a degree with interdisciplinary breadth and intellectual cohesion. An Interdisciplinary Studies student could, for example, choose to integrate biochemistry and psychology, small business and social welfare, communication and urban planning, international business and Chinese, or many other unique combinations.

Interdisciplinary studies is an approach to answering questions, solving problems, and addressing contemporary social issues from multiple perspectives. Students develop the intellectual tools needed to build bridges between academic disciplines and to apply their skills, innovations, and knowledge in various academic and practical settings.

L literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 93.

3. *Building Great Communities*, a liaison to targeted communities throughout the state, creating alliances to improve the quality of life in Arizona, addressing specific issues through long- and short-term projects;
4. *Center for the Future of Arizona*, working with civic and political leaders to develop a statewide agenda to expand educational opportunities, encourage strategic investments, and achieve a sustainable quality of life for residents;
5. *Joint Urgan Design Studio*, located at the Downtown Center;
6. *Office of Youth Preparation*, a nationally recognized program committed to increasing the flow of college-eligible minority students into higher education;
7. *Stardust Center for Affordable Homes and the Family*, conducting research on social and economic foundations for permanent affordable homes for working families and studying the impacts of family services on family and neighborhood stability; and
8. *Urban Data Center*, a resource for analysis and implementation of public policy in metropolitan Phoenix.

UNIVERSITY COLLEGE

Students take an active role in creating their educational plans and defining their career goals. The degree emphasizes written communication, versatility, self-assessment, and critical thinking.

By engaging a breadth of knowledge and experience, and by acquiring the skills to integrate various domains of knowledge, students prepare themselves for a vast variety of careers. One student combined biology and chemistry in preparation for pharmacy school, and another prepared to own a small business by studying communication and small business. One integrated sociology and family studies to further his career as a police officer. Another studied philosophy and economics to prepare for law school.

Interdisciplinary Studies students apply the skills and knowledge they acquire in class through community engagement. As part of their applied experiences, students collectively spend more than 75,000 hours each year with local business, government, and nonprofit organizations. The faculty are actively engaged in the academic community. They hold doctoral degrees in anthropology, communication, comparative culture, educational psychology, English, interdisciplinary studies, Middle East history, political economy and public policy, political science, and psychology. They have authored academic books, the first interdisciplinary studies textbook, and academic articles in disciplinary and interdisciplinary journals.

Degree Requirements

To graduate with a BIS degree, a student must successfully complete all university and General Studies requirements (see “General Studies,” page 93), the four BIS core courses, and the requirements for two concentrations of their choice.

Admission. Students declare either premajor status or major status. Students seeking either status must be in academic good standing and must complete the Cyber Workshop (found on the Web at universitycollege.asu.edu/sis) before meeting with an advisor to declare major or premajor status. Students who do not satisfy the requirements for major status outlined below should instead declare premajor status while working to become eligible for major status.

To be eligible for major status, a student must meet all of the following requirements:

1. have completed at least 56 hours of university credit;
2. be in academic good standing;
3. have completed two courses in each concentration with a “C” or higher; and
4. have completed General Studies requirements for mathematics and English composition.

Core Courses. Students complete a series of four core courses that provide the knowledge and skills necessary to integrate their two concentrations into a cohesive and coherent degree. Throughout the core courses, the student assembles a portfolio, including self-assessment of progress toward career goals and an evaluation of key educational and cocurricular activities.

These core classes consist of BIS 301 (an introduction to concepts and theories of interdisciplinarity), BIS 302 (an

exploration of interdisciplinary approaches to human inquiry), BIS 401 (an applied study, in which students bridge their academic work and an applied learning site), and BIS 402 (a capstone seminar).

BIS 301 is taken first and is the prerequisite to BIS 302. BIS 301 and BIS 302 are prerequisites to BIS 401 and BIS 402, which may be taken concurrently or in sequence. To enroll in BIS 401, a student must apply online. Access universitycollege.asu.edu/sis for application deadlines. Each core course must be completed with a grade of “C” or higher.

BIS 301 Foundations of Interdisciplinary Studies L.....	3
BIS 302 Interdisciplinary Inquiry	3
BIS 401 Applied Interdisciplinary Studies.....	3
BIS 402 Senior Seminar L.....	3
Total.....	12

Concentrations. Students complete requirements for two single concentrations or one double concentration. Students select their subject-area concentrations with consideration given to their academic interests and educational goals. To ensure interdisciplinarity, students may not use concentrations rooted in the same discipline. For concentrations, see the “BIS Concentrations” table, page 142. Each concentration requires a minimum of 18 semester hours with grades of “C” or higher. At least 12 of those 18 hours must be in upper-division courses. Some concentrations have additional GPA and/or admission requirements.

Advising

With this degree comes the promise of outstanding academic advising. Each of the professional advisors in the School of Interdisciplinary Studies is committed to providing every student with the support needed to reach his or her academic goals. Early and periodic advising is recommended to facilitate selecting courses that best meet the graduation requirements.

For more information, visit UASB 203, or call 480/965-1970. For information about the program at the Polytechnic campus, see “Interdisciplinary Studies—BIS,” page 214.

BACHELOR OF INTERDISCIPLINARY STUDIES (BIS)

D BIS 301 Foundations of Interdisciplinary Studies. (3)

fall and spring

Introduces concepts and methods of interdisciplinary study by critically examining anticipated 21st-century workplace and civic trends. Lecture, seminar, discussion. Prerequisites: BIS major; 2.00 GPA.

General Studies: L

D BIS 302 Interdisciplinary Inquiry. (3)

fall and spring

Explores interdisciplinarity and integration as applied to various approaches of human inquiry. Lecture, seminar, discussion. Prerequisite: BIS 301.

D BIS 401 Applied Interdisciplinary Studies. (3)

fall and spring

Applies interdisciplinary problem-solving skills in internships, service-learning, or research; may involve individual or group projects combining both concentrations. Prerequisites: BIS 301, 302; prior application.

SCHOOL OF INTERDISCIPLINARY STUDIES

D BIS 402 Senior Seminar. (3)

fall and spring

Capstone course helps integrate classroom and experiential learning. Students choose among course topics that address their interests. Lecture, seminar, discussion. Prerequisites: BIS 301, 302. Pre- or corequisite: BIS 401.

General Studies: L

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

UNIVERSITY SUPPORT SERVICES

Alliance Program with the Maricopa Community Colleges. The Alliance Program is a unique partnership between the Maricopa Community Colleges and ASU designed to increase the number of students who graduate with associate and bachelor's degrees. The Alliance Program strives toward collaboration in degree planning, seamless transitions for students throughout their academic careers, joint programs and services that are student-centered, and increased access to affordable and flexible education. The Alliance Program director has a dual reporting line to ASU and the Maricopa Community Colleges.

Academic Transfer Articulation Office. ATAO facilitates curriculum information related to the transfer of course work to ASU, articulation task forces in the state of Arizona, course equivalency guides, and Associate in Transfer Partnership degree articulations with the Maricopa Community Colleges. ATAO strives to provide timely, relevant information to students, advisors, and faculty on matters related to the transfer and articulation of course work.

Degree Audit Reporting System. DARS is an online tool that provides students with current information regarding their degree requirements. Through this system, a degree audit is produced that matches a student's completed courses against degree program requirements. The audit allows students to assess their progress toward their degree or determine how their earned credits would apply to another degree program.

General Studies Curriculum Support. University College offers curriculum support services for processing General Studies designations. For a complete description of the General Studies Program, see "General Studies," page 93.



Downtown Phoenix

Tim Trumble photo

UNIVERSITY COLLEGE

BIS Concentrations

Concentration	College	Campus	Page
African and African American studies	College of Liberal Arts and Sciences	Tempe	519
American Indian studies	College of Liberal Arts and Sciences	Tempe	523
American studies	New College of Interdisciplinary Arts and Sciences	West	715
Anthropology	College of Liberal Arts and Sciences	Tempe	569
Applied biological sciences	East College	Polytechnic	221
Architectural studies	College of Design	Tempe	322
Art history	Katherine K. Herberger College of Fine Arts	Tempe	445
Asian Pacific American studies	College of Liberal Arts and Sciences	Tempe	524
Asian studies	College of Liberal Arts and Sciences	Tempe	509
Astronomy	College of Liberal Arts and Sciences	Tempe	626
Biology ¹	College of Liberal Arts and Sciences	Tempe	602
Business	W. P. Carey School of Business	Tempe	289
Chemistry	College of Liberal Arts and Sciences	Tempe	529
Chicana and Chicano studies	College of Liberal Arts and Sciences	Tempe	533
Chinese	College of Liberal Arts and Sciences	Tempe	584
Classical studies—Greek	College of Liberal Arts and Sciences	Tempe	511
Classical studies—Latin	College of Liberal Arts and Sciences	Tempe	511
Communication	College of Liberal Arts and Sciences	Tempe	565
Communication studies	College of Human Services	West	—
Computational mathematical sciences	College of Liberal Arts and Sciences	Tempe	615
Dance	Katherine K. Herberger College of Fine Arts	Tempe	467
Design studies	College of Design	Tempe	327
Economics	College of Liberal Arts and Sciences	Tempe	536
Economics for students planning a career in law	College of Liberal Arts and Sciences	Tempe	536
Education	College of Education	Tempe	361
English—creative writing ²	College of Liberal Arts and Sciences	Tempe	538
English—linguistics concentration ²	College of Liberal Arts and Sciences	Tempe	538
English—literature concentration ²	College of Liberal Arts and Sciences	Tempe	538
English—writing certificate ²	College of Liberal Arts and Sciences	Tempe	538
English—writing certificate	New College of Interdisciplinary Arts and Sciences	West	—
Environmental science ^{3, 4}	—	—	—
Ethics	College of Liberal Arts and Sciences	Tempe	511
Ethnic studies	New College of Interdisciplinary Arts and Sciences	West	—
Exercise and wellness	East College	Polytechnic	234
Family studies/child development	College of Liberal Arts and Sciences	Tempe	544
Film and video studies: film studies	New College of Interdisciplinary Arts and Sciences	West	—
Film and video studies: media and video studies	New College of Interdisciplinary Arts and Sciences	West	—
Fire service management	East College	Polytechnic	267
French	College of Liberal Arts and Sciences	Tempe	584
Geography ⁵	College of Liberal Arts and Sciences	Tempe	549
Geography—environmental geography ⁵	College of Liberal Arts and Sciences	Tempe	549

¹ Students may not use more than one concentration in the life sciences: biology, microbiology, and plant biology.

² Students may not use more than one English concentration.

³ The program may award a certificate upon completion.

⁴ This is a double concentration.

⁵ Students may not use more than one geography concentration.

SCHOOL OF INTERDISCIPLINARY STUDIES

BIS Concentrations (continued)

Concentration	College	Campus	Page
Geography—geographical information science ⁵	College of Liberal Arts and Sciences	Tempe	549
Geography—geography for business ⁵	College of Liberal Arts and Sciences	Tempe	549
Geography—international geography ⁵	College of Liberal Arts and Sciences	Tempe	549
Geological sciences	College of Liberal Arts and Sciences	Tempe	554
German	College of Liberal Arts and Sciences	Tempe	584
Gerontology	College of Human Services	West	687
Global family ^{3, 4}	—	—	—
Hazardous materials and waste management	College of Technology and Applied Sciences	Polytechnic	265
Healthcare organizations and society	W. P. Carey School of Business and School of Life Sciences	Tempe	—
History	College of Liberal Arts and Sciences	Tempe	558
History	New College of Interdisciplinary Arts and Sciences	West	—
Interdisciplinary arts and performance	New College of Interdisciplinary Arts and Sciences	West	—
Interior design history	College of Design	Tempe	332
International business studies ³	W. P. Carey School of Business	Tempe	305
Islamic Studies	College of Liberal Arts and Sciences	Tempe	512
Italian	College of Liberal Arts and Sciences	Tempe	584
Japanese	College of Liberal Arts and Sciences	Tempe	584
Jewish studies	College of Liberal Arts and Sciences	Tempe	512
Justice studies	College of Liberal Arts and Sciences	Tempe	573
Kinesiology	College of Liberal Arts and Sciences	Tempe	578
Landscape studies	College of Design	Tempe	322
Latin American studies	College of Liberal Arts and Sciences	Tempe	513
Lesbian, gay, bisexual, and transgender studies	College of Public Programs	Tempe	—
Life sciences	New College of Interdisciplinary Arts and Sciences	West	—
Mass communication	Walter Cronkite School of Journalism and Mass Communication	Tempe	493
Mathematics	College of Liberal Arts and Sciences	Tempe	615
Mathematics	New College of Interdisciplinary Arts and Sciences	West	—
Medieval and Renaissance studies ³	College of Liberal Arts and Sciences	Tempe	513
Microbiology ¹	College of Liberal Arts and Sciences	Tempe	602
Multimedia writing and technical communication	East College	Polytechnic	239
Music	Katherine K. Herberger College of Fine Arts	Tempe	478
Nonprofit/youth agency administration	College of Public Programs	Tempe	190
Nutrition—food and nutrition management	East College	Polytechnic	243
Nutrition—human nutrition	East College	Polytechnic	243
Organizational studies ⁴	—	—	—
Philosophy	College of Liberal Arts and Sciences	Tempe	622
Philosophy	New College of Interdisciplinary Arts and Sciences	West	—
Philosophy—history and philosophy of science	College of Liberal Arts and Sciences	Tempe	622
Philosophy—symbolic systems	College of Liberal Arts and Sciences	Tempe	622

¹ Students may not use more than one concentration in the life sciences: biology, microbiology, and plant biology.

² Students may not use more than one English concentration.

³ The program may award a certificate upon completion.

⁴ This is a double concentration.

⁵ Students may not use more than one geography concentration.

UNIVERSITY COLLEGE

BIS Concentrations (continued)

Concentration	College	Campus	Page
Physics	College of Liberal Arts and Sciences	Tempe	626
Plant biology ¹	College of Liberal Arts and Sciences	Tempe	602
Plant biology—environmental science and ecology ¹	College of Liberal Arts and Sciences	Tempe	602
Plant biology—molecular biosciences/ biotechnology ¹	College of Liberal Arts and Sciences	Tempe	602
Political science	College of Liberal Arts and Sciences	Tempe	631
Political science	New College of Interdisciplinary Arts and Sciences	West	—
Political science—international studies	College of Liberal Arts and Sciences	Tempe	631
Psychology	College of Liberal Arts and Sciences	Tempe	636
Psychology	New College of Interdisciplinary Arts and Sciences	West	—
Public administration	College of Public Programs	Tempe	193
Public relations and strategic communications	College of Human Services	West	—
Quality analysis	W. P. Carey School of Business	Tempe	294
Recreation management	College of Public Programs	Tempe	190
Religious studies	College of Liberal Arts and Sciences	Tempe	639
Religious studies	New College of Interdisciplinary Arts and Sciences	West	—
Russian	College of Liberal Arts and Sciences	Tempe	584
Russian and East European studies	College of Liberal Arts and Sciences	Tempe	513
Scandinavian studies	College of Liberal Arts and Sciences	Tempe	514
Small business	East College	Polytechnic	226
Social and behavioral sciences	New College of Interdisciplinary Arts and Sciences	West	—
Social welfare	College of Public Programs	Tempe	196
Sociocultural anthropology	New College of Interdisciplinary Arts and Sciences	West	—
Sociology	College of Liberal Arts and Sciences	Tempe	643
Southeast Asian studies—area studies option	College of Liberal Arts and Sciences	Tempe	514
Southeast Asian studies—language option	College of Liberal Arts and Sciences	Tempe	514
Spanish	College of Liberal Arts and Sciences	Tempe	584
Spanish	New College of Interdisciplinary Arts and Sciences	West	—
Special events management	College of Human Services	West	—
Speech and hearing science	College of Liberal Arts and Sciences	Tempe	646
Statistics	College of Liberal Arts and Sciences	Tempe	615
Theatre	Katherine K. Herberger College of Fine Arts	Tempe	487
Tourism	College of Public Programs	Tempe	190
Tourism management	College of Human Services	West	—
Translation (Spanish/English)	College of Liberal Arts and Sciences	Tempe	584
Urban planning	College of Design	Tempe	338
Women and gender studies	College of Liberal Arts and Sciences	Tempe	649
Women's studies	New College of Interdisciplinary Arts and Sciences	West	—

¹ Students may not use more than one concentration in the life sciences: biology, microbiology, and plant biology.

² Students may not use more than one English concentration.

³ The program may award a certificate upon completion.

⁴ This is a double concentration.

⁵ Students may not use more than one geography concentration.

The Barrett Honors College

honors.asu.edu

Mark Jacobs, PhD, Dean

Curriculum	145
Special Programs	145
Additional Benefits	146
Admission	146
Retention	146
Course Requirements	147
Honors Transcript Recognition	147
Philosophy, Politics, and Law, Certificate Program in	148
Faculty and Courses	148

MISSION

The Barrett Honors College is home to many of ASU's nationally ranked scholars. It is a living and learning community of scholars, caring advisors, and enthusiastic faculty. The Barrett Honors College is unique in the nation as an excellent residential liberal arts college with the vast program choices and resources of a vibrant Research Extensive institution. This powerful combination promotes and enables the best education possible for intellectually engaged students from Arizona, from America, and from the world.

The college offers talented, motivated students educational opportunities designed to enrich and further their personal academic and career goals. It is a portal through which academically talented students gain unique access to the university's human and physical resources. Transdisciplinary in nature, the college develops curricular and other learning opportunities to meet general and disciplinary undergraduate educational objectives. The college supports undergraduate research, encourages study abroad, guides students to relevant internships, and mentors applicants for fellowships and scholarships.

The Barrett Honors College serves students seeking degrees at the Downtown Phoenix campus, the Polytechnic campus, in southeast Mesa, the Tempe campus, and the West campus, in northwest Phoenix. For more information see "The Barrett Honors College," page 663. Students across the university take advantage of the university's full resources with the assurance of consistently distinguished teaching and research and with commensurately rigorous expectations for performance.

Students planning to seek any academic major may apply to the Barrett Honors College. Admission is by separate application directly to the Honors College.

CURRICULUM

Students planning to graduate from the Barrett Honors College must also graduate from a disciplinary college. The ASU honors curriculum normally allows students to finish all requirements within the 120 semester hours of credit usually required for graduation. Thirty six of those credits are honors courses—with a minimum of 18 upper division credits.

SPECIAL PROGRAMS

Lorraine W. Frank Office of National Scholarship Advisement

The Lorraine W. Frank Office of National Scholarship Advisement assists students by identifying nationally competitive programs appropriate to each person's intellectual and career goals, nurturing these prospective applicants, and advancing their candidacy. This office, administered by the college, serves the entire ASU community. ASU students regularly earn distinction in the most rigorous and prestigious scholarship competitions. Many pursue enhanced degree programs and research projects under the auspices of Goldwater or Truman Scholarships. Other students undertake postgraduate study in the United States and abroad as Rhodes, Marshall, Fulbright, Udall, National Science Foundation, or Mellon Scholars. Many others have been recognized by a range of postgraduate awards, fellowships, and assistantships. *This office does not administer any need- or merit-based student financial assistance.* For more information, call 480/965-5894.

Undergraduate Research Opportunities

Undergraduate research and creative opportunities are available across many disciplinary programs, centers, and institutes at ASU. The Barrett Honors College maintains lists of current opportunities, available by accessing the college's Web site at honors.asu.edu. In addition, the college actively seeks new opportunities matching student training with emerging research on campus

Study Abroad

Students in the Barrett Honors College (BHC) have exclusive access to study abroad programs that significantly enhance their educational experience. Directed and taught by BHC faculty, these programs usually occur during the first summer session and last between five and six and a half weeks and allow students to earn honors credit while overseas. The three current programs offer students the privilege

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

THE BARRETT HONORS COLLEGE

of studying in several of the most significant and dynamic cities in Europe and Latin America. The London, Dublin, and Edinburgh program has been offered since 1995, the Paris and Loire Valley program since 1998, and the Latin American program since 2002. The International Programs Office offers semester- and year-long programs abroad for students who desire a fuller experience. Often, students who have participated in one of the BHC summer programs realize the major benefits of studying abroad and choose to continue through extended programs.

Internships/Mentorships/Opportunities

Students in the Barrett Honors College may participate in special internship opportunities—in government, industry, and the private sector—throughout metropolitan Phoenix. The college maintains a database of special opportunities, including community service and international and cultural events. For more information, call 480/727-6993.

Events/Programming

Students enrolled in the Barrett Honors College are given special access when important contributors to contemporary thought in society visit ASU. Each year the college hosts the university's premier scholar-in-residence program, the Centennial Lecture. Past guests include novelist Carlos Fuentes, paleontologist Steven Jay Gould, psychiatrist Robert Coles, microbiologist Lynn Margulis, essayist Susan Sontag, paleoanthropologist Meave Leakey, American Indian author N. Scott Momaday, Pulitzer Prize winning author David Halberstam, prolific and wide-ranging African American author and National Book Award recipient Charles Johnson, playwright Edward Albee, a prominent innovator in modern American drama, and Kathleen Sullivan, a renowned constitutional law scholar.

The college is also home to the John J. Rhodes Chair, designed to bring to the college persons who have significantly contributed to civic life and distinguished themselves as public service leaders. Students have unique opportunities to engage intellectually with these outstanding visiting lecturers. In 1998, the college was honored to have Dr. Henry A. Kissinger serve as the inaugural chair. American Indian scholar Donald Lee Fixico was the 2002 Rhodes Lecturer, followed by Jean Strause, notable biographer of J. P. Morgan in 2003, world-renowned astronomer David Levy in 2004, and leading alternate energy expert Hal Harvey in 2005.

ADDITIONAL BENEFITS

The Barrett Honors College and all its facilities and services are fully available to every student, regardless of where he or she lives. The Honors Halls of Residence offer students an integrated living-learning environment. The Barrett Honors College has its own faculty and academic advisors to serve all honors students. Classrooms, recreational and study lounges, and a state-of-the-art computing lab make up the principal facilities of the college.

Students enrolled in the Barrett Honors College receive priority at preregistration and have extended checkout privileges in the campus libraries. Honors courses in disciplinary departments are typically limited to 25 students. Honors courses (with the prefix HON) are usually limited to 19.

Students who meet all requirements of both their disciplinary college and the Barrett Honors College receive transcript recognition of that accomplishment, as well as special acknowledgment during graduation ceremonies and collegiate honors convocations.

Participants in the honors college have diverse interests and strong records of success. Many are accepted into the nation's finest graduate and professional programs, including Chicago, Cornell, Harvard, Michigan, MIT, Northwestern, Stanford, UC-Berkeley, Virginia, Wisconsin, and Yale. Many students have published portions of their honors theses and have presented their work at national and regional meetings of scientific and honors societies.

ADMISSION

Students who have demonstrated high levels of academic achievement in high school or college may apply for admission to the Barrett Honors College. All candidates for admission must file an application to the college separate from their ASU application.

Applicants are evaluated on the basis of their high school GPA (Arizona Board of Regents GPA based on 16 competency courses), high school class rank, and performance on the SAT or ACT; as well as talents that contribute to leadership and community service. Continuing ASU or transfer students are evaluated on their college GPA.

Application forms and additional information about the college and its activities are available by calling 480/965-2359 or by accessing the Web site at honors.asu.edu.

RETENTION

Honors students must maintain high standards of academic performance and show progress toward completion of graduation requirements in their disciplinary majors and in the Barrett Honors College. In order to graduate from the Barrett Honors College, students must complete the following (which includes a total of 36 semester hours of honors course work):

1. HON 171 and 172 The Human Event must be completed by the time a student has earned 45 semester hours at ASU. Students are placed on inactive status if this requirement is not met.
2. Thirty additional semester hours of honors course work must be earned with a letter grade of "C" or higher. This may include HON prefix classes, honors sections of classes, honors contracts, or any automatic honors course such as ENG 105, CHM 117, CHM 118, or PHY 333, or any 500-level course.
3. Included in the 30 semester hours of honors course work are 18 hours of upper-division or graduate-level honors credits for an earned letter grade of "C" or higher, including six semester hours of honors course work outside the academic major. Students should investigate specialized honors upper-division tracks within their majors.
4. Transfer students (defined as 45 or more university credits completed at the time of BHC application) must complete a 300-level upper-division HON special topics course in addition to the 18 required

hours of upper-division honors course work. A total of 21 hours of upper-division honors course work are required for transfers because transfers do not have time to complete all 36 honors hours.

5. Students are required to complete an honors thesis/creative project for at least three semester hours though students are encouraged to complete six thesis semester hours. The thesis semester hours may be included in the 18 required hours of upper-division honors course work. The thesis is launched with a prospectus form due one academic year before the defense. The final copy must be filed by the last week of classes during the student's graduation semester.
6. ASU graduation requirements in an academic major must be met.
7. The student must maintain a cumulative ASU GPA of 3.25 or higher.

BHC students are expected to meet regularly with honors advisors. Two sessions are mandatory: one during the first semester in the BHC and another during the first semester of upper-division status. To make an appointment with an honors advisor, call 480/965-9155. Peer advisors are available on a walk-in basis. Office hours are Monday through Friday 8 A.M. to 5 P.M., in MB C100-L1.

COURSE REQUIREMENTS

Honors College course requirements may be met in a variety of ways. There are two specific required courses for first year students. Only courses in which a student receives a grade of "C" (2.00) or higher may be used to meet the Barrett Honors College requirements.

Those entering the college as lower-division students must take 18 lower-division honors credits, which include HON 171 and 172, The Human Event. This cross-disciplinary seminar acquaints them with ideas that form the foundation of a university education and emphasizes critical thinking, discussion, and writing. Barrett Honors College students complete HON 171 and 172 during their first 45 units at ASU.

Those who enter as upper-division students must take 21 honors credits, including a required 300-level honors course. Junior-level seminar courses introduce them to critical thinking, discussion, and writing in a topical area chosen by the instructor. It is expected that all students complete this course no later than the first or second semester after transferring.

Departmental courses carrying footnote number 19 in the *Schedule of Classes* are limited to honors students and others who receive special permission from the instructor to enroll. Enrollment in these courses is limited. Compared to their nonhonors equivalents, these courses are designed to offer a richer, more complex intellectual experience appropriate to the discipline and the level of the course for all students enrolled. Other disciplinary honors courses group honors students in small cohorts to work on research projects of common interest.

Departmental courses carrying footnote number 18 in the *Schedule of Classes* allow honors students to contract with the instructor of designated nonhonors courses to earn

honors credit by pursuing enrichment activities, which may include supplemental sessions with the instructor. Footnote 18 contracts must be filed during the first four weeks of class and completed during the semester in which the course is offered. Each contract form offers guidelines to aid students and faculty in developing appropriate contracts.

Course numbers listed in the *Schedule of Classes* as 298, 492 Honors Directed Study, 493 Honors Thesis, 497 Honors Colloquium, and all classes with the HON prefix are reserved for students in the Barrett Honors College and always carry footnote 19. Students may receive credit for more than one of each of these courses in a given department.

Departmental courses with the number 493 are reserved for honors students completing their honors theses and creative projects. A student may enroll for these courses only with the approval of the sponsoring academic department and of the faculty member who serves as the student's thesis director. Course numbers listed in the *Schedule of Classes* as 493 fulfill the student's upper-division literacy and critical inquiry (L) General Studies requirement.

There are certain courses that carry automatic honors credit. These include ENG 105 (any section) and CHM 117 and 118. MAT 300, PHY 201, and PHY 333, when taken by students with 45 or fewer semester hours also carry automatic honors credit, as long as the student receives a grade "A" (4.00) or "B" (3.00). Graduate level courses automatically earn honors credit, but credit toward graduation must be approved by the department and dean of the college in which the student majors.

HONORS TRANSCRIPT RECOGNITION

All courses used to fulfill graduation requirements for the Barrett Honors College must carry earned letter grades of at least "C" (2.00). A "Y" grade meets college requirements only for HON 492 Honors Directed Study and HON 493 Honors Thesis.

Graduation Requirements

To graduate through the Barrett Honors College, students must

1. complete all honors course requirements;
2. complete all required semester hours of honors course work with a grade of "C" (2.00) or higher (a "Y" grade is allowed for HON 492 and HON 493) unless otherwise provided for by the Barrett Honors College and the college of the student's major;
3. complete ASU graduation requirements in an academic major; and
4. earn a cumulative ASU GPA greater than or equal to 3.25 (4.00 = A).

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

THE BARRETT HONORS COLLEGE

CERTIFICATE PROGRAM IN PHILOSOPHY, POLITICS, AND LAW

Students enrolled in Barrett Honors College may pursue the certificate in Philosophy, Politics, and Law (PPL). This interdisciplinary program affords an opportunity to engage in a focused program of study that brings analytical rigor to bear on the philosophical issues involved in law and politics. The concentration comprises six courses (18 semester hours), two of which are offered through Barrett Honors College. One of these courses, normally taken in the student's second year at ASU, is a seminar on law, justice, and morality (HON 310); the second is a junior-senior seminar on theories of justice, or a related topic in philosophy, politics, and law, that entails an extended paper (HON 410). The remaining four courses must be approved by the PPL Council and selected from courses regularly offered in philosophy, political science, and other areas.

The PPL Council consists of the PPL director and several members of the ASU faculty whose research and teaching focus on political, legal, and moral philosophy. ASU has exceptional resources in this area, with more than a dozen faculty members—in the Department of Philosophy, the Department of Political Science, Barrett Honors College, the College of Law, and other departments—working in this field. Among them are several professors who have won teaching awards and national or international honors for their scholarship.

The PPL Program aims to sharpen the critical, conceptual, and analytical skills that law schools and graduate programs in philosophy, political science, and other fields require. By engaging students in the analysis of classical and contemporary political, legal, and moral concerns, moreover, PPL hopes to prepare them for public service, whether it be as lawyers or scholars, in government or in watchdog groups, or simply as active and responsible citizens.

Certificate Requirements

Required courses

HON 310 Justice and Law.....	3
HON 410 Philosophy, Politics, and Law.....	3
Choose four of the following elective courses.....	12
HON 376 Law, Literature, and Life <i>L/HU</i> (3)	
JUS 303 Justice Theory (3)	
PHI 305 Ethical Theory <i>HU</i> (3)	
PHI 307 Philosophy of Law <i>HU</i> (3)	
PHI 309 Social and Political Philosophy <i>HU</i> (3)	
PHI 310 Environmental Ethics <i>HU</i> (3)	
PHI 335 History of Ethics <i>HU</i> (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 346 Problems of Democracy <i>HU</i> (3)	
POS 442 American Political Thought <i>HU</i> (3)	
POS 445 Asian Political Thought <i>SB, G</i> (3)	
POS 471 Constitutional Law I <i>SB</i> (3)	
POS 472 Constitutional Law II <i>SB</i> (3)	
Total	18

In keeping with the interdisciplinary nature of the program, students may count no more than three courses from any one department toward the PPL certificate. The PPL director maintains a list of approved courses, and students

may petition the council to add a course to that list. PPL students are encouraged but not required to write their honors thesis in the field and under the supervision of a PPL faculty member.

The Barrett Honors College

honors.asu.edu
480/965-4033
IRISH A 121

Mark Jacobs, Dean

Professors: Humphrey, Jacobs, Nelson

Assistant Administrative Professional: Burke

Senior Lecturers: Bruhn, Dalton, Facinelli, Stanford, Susser

Lecturers: Beggs, Herrmann, J. Lynch, J. M. Lynch, Martin, McManus, Pickus

HONORS (HON)

For more HON courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

M HON 171 The Human Event. (3)

fall and spring
Landmarks in the social and intellectual development of the human race, with emphasis on Western civilization. Enrollment restricted to members of the Barrett Honors College. Consult the college for applicability to disciplinary college distribution requirements.
General Studies: L/HU, H

M HON 172 The Human Event. (3)

fall and spring
Continuation of HON 171, with emphasis on the Renaissance through the modern period. Prerequisite: HON 171.
General Studies: L/HU, H

M HON 310 Justice and Law. (3)

spring
Philosophical study of theories of justice in relation to law and morality. Required for Certificate in Philosophy, Politics, and Law. Seminar. Prerequisites: HON 171 and 172 recommended.

M HON 371 Freedom and Authority. (3)

fall and spring
Historical overview of concepts of liberty, responsibility, and power in Western societies, emphasizing 18th- to 20th-century developments. Seminar.
General Studies: L/HU

M HON 372 French Cultural Influences. (3)

summer session 1
Explores textual and cultural artifacts formative of French culture as a series of contacts and conflicts with other peoples and lifeways. Seminar.
General Studies: L/HU, G

M HON 373 Heroes, Heroines, and Villains. (3)

fall and spring
Examines concepts of heroic and villainous characteristics as expressed in the literature and visual arts of various cultures throughout history. Seminar.
General Studies: L/HU

M HON 374 Black and White Atlantic. (3)

fall and spring

Examines development (18th- to 20th-century) and cultural manifestations of Black/White race relations within the U.S. and between the U.S. and other nations. Seminar.

General Studies: HU, G

M HON 375 Science and the Modern Self. (3)

fall and spring

Concentrates on texts of the 19th and 20th centuries; explores how scientific discourse determines our notions of self. Lecture, discussion, seminar.

General Studies: L/HU

M HON 376 Law, Literature, and Life. (3)

fall and spring

Multidisciplinary approach to the subject of law, examining it through literature, history, and legal philosophy. Seminar.

General Studies: L/HU

M HON 377 Nature in Context. (3)

fall

Explores perspectives on the nature of nature, the history of ecology, and the rise of environmentalism. Seminar. Cross-listed as HPS 377. Credit is allowed for only HON 377 or HPS 377.

General Studies: L/HU

M HON 378 Culture and Society in England, Ireland, and Scotland. (3)

summer

Chronologically explores texts, events, and sites for historical and cultural impact on development of England, Ireland, Scotland, and their countries' relationships with each other. Seminar.

General Studies: HU, G, H

M HON 379 Romantics, Victorians, and Moderns. (3)

summer

Examines the development and impact of various literatures, arts, and ideas in England, Ireland, and Scotland from the Romantic through the Modern period. Seminar.

General Studies: HU, G

M HON 394 Special Topics. (3)

fall, spring, summer

M HON 410 Philosophy, Politics, and Law. (3)

spring

Topics in political and legal philosophy, including political authority, obligation and disobedience, the nature of crime and punishment. Required for Certificate in Philosophy, Politics, and Law. Seminar. Prerequisite: HON 310 or instructor approval.

M HON 484 Internship. (1–6)

selected semesters

M HON 485 Biosphere 2—Study Opportunity. (1–18)

fall and spring

For students participating in the ASU-sponsored program at Biosphere 2.

M HON 492 Honors Directed Study. (1–12)

selected semesters

Research and preparation for HON 493.

M HON 493 Honors Thesis. (1–6)

selected semesters

General Studies: L

M HON 498 Pro-Seminar. (1–7)

selected semesters

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.



The atrium area in the Biodesign Institute Building fosters the open exchange of ideas among researchers working on collaborative projects.

Barb Backes photo

Division of Graduate Studies

www.asu.edu/graduate

Maria T. Allison, PhD, Vice Provost and Dean of Graduate Studies

Graduate Programs	150
Research	151
Graduate Student Support Services	152
Admission to the Division of Graduate Studies	153
Division of Graduate Studies Procedures	155
Division of Graduate Studies Degree Requirements.	157
Academic Integrity	160
Misconduct in Scholarly Research and Creative Activities	160

PURPOSE

The ASU Division of Graduate Studies 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 a wide range of master's and doctoral degree programs 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, 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 Division of Graduate Studies' dedication to graduate students is the Preparing Future Faculty program, which is designed to educate students about faculty roles and prepare doctoral students specifically for faculty positions in colleges and universities across the nation.

Typically a large number of ASU graduate students are awarded prestigious fellowships and scholarships funded by the National Science Foundation, NASA, the Ford Foundation, the Fulbright program, and other public agencies and private foundations.

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 President for Research and Economic Affairs 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 11,000 students from all 50 states and more than 100 nations are enrolled in graduate study at the university. Such size and diversity contribute 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, especially in doctoral programs, graduate students prepare to make original contributions to their fields through research and other creative activities of a high order. ASU offers several types and levels of postbaccalaureate degrees. For admission information and procedures, access the Web site at www.asu.edu/graduate/admissions.

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 frequently the terminal or final degree. In other fields, students enter master's programs as a step toward more advanced work, such as doctoral studies, that prepares 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—including the Master of Arts (MA), Master of Science (MS), and Doctor of Philosophy (PhD)—prepare students for careers in research and scholarship in

governmental, business, and industrial organizations or in university or college teaching. Students in these programs develop the ability to evaluate existing knowledge critically and to 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 (MBA), Master of Music (MM), Master of Social Work (MSW), and Doctor of Education (EdD). 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, 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 Postbaccalaureate Study

Many students enter postbaccalaureate studies without intending to obtain a new degree but rather to enhance personal or professional knowledge. These students 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 postbaccalaureate 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/admissions.

Graduate Studies and the University Environment

The Division of Graduate Studies spans the university in supervising graduate studies. Since more than 1,600 ASU faculty members teach graduate students in more than 100 instructional units, the Division of Graduate Studies works closely with the university's 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. 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 reflect intrinsically broad disciplinary affinities, and faculty are drawn from more than one academic unit.

Examples of interdisciplinary programs include

1. Atmospheric Science (certificate);
2. Business Administration (PhD);
3. Creative Writing (MFA);

4. Exercise Science (PhD);
5. Geographic Information Science (certificate);
6. Gerontology (certificate);
7. Materials Science (MS);
8. Science and Engineering of Materials (PhD);
9. Statistics (MS and certificate); and
10. Transportation Systems (certificate).

Each of these programs uses resources and faculty from several disciplines. The programs promote cooperative research and instruction among faculty who share common interests but are housed in different academic units and allow students to pursue degrees that are intellectually coherent but bring together diverse strengths of the university.

RESEARCH

ASU continues to advance as a major research institution. The Office of the Vice President for Research and Economic Affairs 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 Institute for Manufacturing Enterprise Systems, the Institute of Human Origins, the Hispanic Research Center, the Joan and David Lincoln Center for Applied Ethics, and the Prevention Intervention Research Center. For more information, see "Research Centers," page 39.

Research Facilities

ASU lends support to research in diverse ways, including providing 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. Among other facilities supporting research on campus are the Institute for Studies in the Arts, in the Katherine K. 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 School of Human Evolution and Social Change.

Library System. The ASU library system is a major research facility (see "University Libraries and Collections," page 33). It contains more than 3 million volumes of books and approximately 6.6 million pieces of microforms and subscribes to more than 36,000 serials. Among the nation's research libraries, it is in the top quarter in annual volume acquisition. It is especially strong in amassing current monographs and serials to support graduate programs.

DIVISION OF GRADUATE STUDIES

Some of the most important research collections include manuscripts and rare photographs on Arizona and Southwest topics and an excellent collection of social science materials on Southwestern and border studies topics, including materials on northwestern Mexico. In the humanities, the Hayden Library has an outstanding collection of literary works and literary criticism from small and major presses in American and English literature. The Child Drama Collection is also outstanding. A growing rare book and manuscript collection supports the research interests of academic units. The Arthur Young Tax Library emphasizes accounting and law. The Noble Science and Engineering Library is a designated U.S. Patent Depository and, as such, is one of fewer than 30 U.S. academic libraries to receive copies of all new patents. The entire collection of U.S. patents in microfilm is housed in the Noble Library.

The libraries contain extensive U.S. and Arizona government documents and selected international documents.

The Music Library contains scores and sound recordings.

The Architecture and Environmental Design Library houses a nationally recognized set of materials on solar energy and research collections on the work of Frank Lloyd Wright and Paolo Soleri as well as other Arizona architects.

The libraries offer excellent support to researchers interested in electronic information sources. The online library system incorporates the usual catalog to ASU library holdings as well as several other important electronic reference databases and gateways. Bibliographic information on the library holdings can be accessed from any location in the world via a modem-equipped microcomputer.

The library system belongs to the Center for Research Libraries, permitting access to the center's vast collections of materials for extended loan periods.

GRADUATE STUDENT SUPPORT SERVICES

Providing academic and professional development support to graduate students is an important part of the Division of Graduate Studies mission. Services include referral, financial assistance, orientation sessions, workshops, career seminars, and research conferences. The Division of Graduate Studies maintains a variety of programs specifically for graduate students (degree and nondegree). For more information, access the Division of Graduate Studies Web site at www.asu.edu/graduate.

Division of Graduate Studies Financial Support Office. The Division of Graduate Studies Financial Support Office assists graduate students applying for external fellowships. The office processes tuition waivers/remission and health insurance benefits for research and teaching assistants, tuition fellowships for students who are not research or teaching assistants, travel grants, and other financial support in partnership with academic units.

For assistance with loans, access the Web site at www.asu.edu/fa, or visit Student Financial Assistance in SSV 216A.

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 to do with

their degrees upon graduation. The Division of Graduate Studies provides the following resources.

Preparing Future Faculty. Preparing Future Faculty (PFF) is a program coordinated by the Division of Graduate Studies for doctoral students who are seeking careers in the professorate. Originally a national initiative under the Council of Graduate Schools and the Association of American Colleges and Universities, PFF encourages fresh thinking and planning in faculty preparation, identifies strategies to improve the quality of teaching and learning, and orients doctoral students to different types of higher education institutions.

Preparing Future Professionals. The Preparing Future Professionals (PFP) program, administered by the Division of Graduate Studies, assists doctoral students interested in pursuing nonacademic professions. PFP parallels the well-established and successful PFF program. Through a series of activities, PFP familiarizes doctoral students with various nonacademic career tracks to develop skills to successfully pursue a wide range of career opportunities.

Strategies for Success. The Strategies for Success series of professional development workshops is broken into three categories: teaching and instruction, career development, and enriching the graduate experience. These workshops are open to all registered graduate students.

Division of Graduate Studies. Courses with the prefix GRD numbered 791 are reserved for doctoral students participating in the PFF program. PFF students are required to take one semester hour for each of the semesters they are enrolled in the program. Students enroll for the first-year exploratory phase. Those accepted into the second-year participatory phase enroll for one semester hour each semester.

DIVISION OF GRADUATE STUDIES (GRD)

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/ catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

Diversity Programs. Diversity Programs are designed to increase the number of graduate students from groups underrepresented in certain professions and fields of study.

UGEM. The Division of Graduate Studies UGEM (Underrepresented Graduate Enrichment Match) program is designed to assist academic units in the recruitment and retention of excellent first-year graduate students from underrepresented groups. UGEM provides academic and financial support through assistantships. For more information, contact specific academic units.

The Social and Academic Mentor (SAM) Program. The SAM program is designed to recruit top graduate students from domestic, international, and underrepresented populations. Academic units submit nominations to the Division of Graduate Studies for 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 approach. The mentor receives hourly compensation.

Orientations. Before each fall semester, the Division of Graduate Studies hosts an orientation/reception for new graduate students. An online orientation is available on the Division of Graduate Studies' Web site at www.asu.edu/graduate/orientation.

All new teaching assistants (TAs) are required by the university and the Arizona Board of Regents to attend the TA Orientation conducted by the Division of Graduate Studies. Additional professional development forums are held during the academic year and TAs are encouraged to participate.

Workshops for Undergraduate Students Considering Graduate Education. The Division of Graduate Studies holds workshops to address issues that students contemplating graduate study should consider. The purpose of graduate study, the choices among research and professional degrees, the selection of schools to apply to, and the types and sources of financial support are among the topics discussed.

Student Organizations. The Graduate and Professional Student Association (GPSA) is part of the Associated Students of Arizona State University (ASASU), the student government for the university. The GPSA represents graduate student interests within ASASU and the Office of Student Life. It assists the Division of Graduate Studies in planning orientations, the Graduate and Professional Student Appreciation Week, and other student-related activities. This office, with the Division of Graduate Studies, also funds small research grants to support graduate students' thesis and dissertation projects. In addition to the GPSA, many other special interest organizations are available for graduate students, such as the Latino(a) Graduate Student Association, American Indian Graduate Student Association, Black Graduate Student Association, and Graduate Women's Association.

Student Academic Services. The Division of Graduate Studies provides assistance to graduate students through its Student Academic Services (SAS) department in accordance with the policies and procedures set forth in the Graduate Catalog. SAS offers services such as the processing of the graduate program of study, petitions, comprehensive exam results, foreign language exam results, candidacy letters, and committee changes and approvals. This office also prepares and sends defense paperwork, announces doctoral defenses in *Insight*, and works closely with the Office of University Ceremonies to coordinate commencement for doctoral students. SAS sponsors workshops for graduate students on graduate policies, deadlines, and an introduction to the thesis and dissertation review process. For more information, see "Format Advising," on this page. Graduate students may meet with a SAS specialist by appointment or on a walk-in basis.

For answers to questions regarding the program of study, graduate policies and procedures, or graduation deadlines, visit SAS in ADMN B 170, or access the Web site at www.asu.edu/graduate/current/sas.htm.

Format Advising. The thesis, dissertation, or equivalent is the culmination of an important stage of graduate studies. By researching and writing this final work, graduate stu-

dents are able to demonstrate acquired skills essential to a discipline. The Division of Graduate Studies publishes a *Format Manual* as a guide in preparing the master's or doctoral document. The *Format Manual* and forms pertaining to procedures for completing all graduation requirements are available in the Division of Graduate Studies lobby in Wilson Hall or on the Web at www.asu.edu/graduate/format.

Publications Program. The Division of Graduate Studies 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, call 480/965-3521.

ASU Graduate Councils

The mission of the Division of Graduate Studies is to promote and support—in partnership with schools, departments, colleges, and campuses—the integrity, quality, and vitality of ASU graduate programs, including graduate certificates, master's degrees, and doctoral degrees. The Graduate Councils (Polytechnic, Tempe, and West campus councils) consist of faculty from each campus who review and make recommendations regarding the quality and nature of programs, policies, and standards related to graduate education. The councils serve in an advisory capacity to the vice provost and dean of Graduate Studies. In addition to the faculty leadership of each campus, the dean and associate deans of the Division of Graduate Studies serve in ex-officio capacities to enhance and foster cross-campus collaboration and communication. For more information, access the Web site at www.asu.edu/graduate/gapd/gradcouncil.

Offices of the Division of Graduate Studies

The general offices of the division, including those of the dean, admissions, advising, financial assistance, and graduate academic services and programs, are located on the first and second floors of ADMN B. Division offices are open Monday through Friday, from 8 A.M. to 5 P.M. For more information, call the Division of Graduate Studies at 480/965-3521, or access the Web site at www.asu.edu/graduate.

ADMISSION TO THE DIVISION OF GRADUATE STUDIES

Eligibility

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

Division of Graduate Studies Requirements

Generally, an applicant must have a GPA of 3.00 (scale is 4.00 = A), or the equivalent, in the last two years of work leading to the bachelor's degree. A student who enters a graduate degree program is expected to have undergraduate educational experiences, including general education studies, that are similar to those required for the baccalaureate degree at ASU.

DIVISION OF GRADUATE STUDIES

Requirements of the Academic Unit

Academic units, departments, or colleges, may have admission requirements in addition to those of the Division of Graduate Studies. Many graduate programs require scores from a national admissions test such as the Graduate Record Examination, Graduate Management Admission Test, or the Miller Analogies 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/admissions. Students are encouraged to apply via the Web. If students cannot access the Internet, they may call the Division of Graduate Studies at 480/965-6113.

Application Fee

Each application for entry to ASU graduate programs must be accompanied by a nonrefundable application fee. The fee is \$50 to apply for admission to a degree program or for undeclared postbaccalaureate status. For admission information and procedures, access the Web site at www.asu.edu/graduate/admissions.

International Applicants

Applicants who will attend the university while holding F-1 or J-1 visas must meet the requirements of U.S. immigration regulations in addition to the requirements of the Division of Graduate Studies and the academic units 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/admissions. International applicants should read this information carefully to become familiar with all the requirements, consulting it often for instructions to follow regarding the submission of materials. The *Graduate Catalog* provides essential information about ASU and its graduate programs.

As required by the U.S. government, international applicants must also verify that they have the financial resources to cover their expenses during graduate study at ASU. The Financial Guarantee form is available through the Division of Graduate Studies Web site at www.asu.edu/graduate/admissions. The I-20 or the DS-2019 (documents needed to obtain a student visa) are issued only after the completed, properly verified Financial Guarantee form and supporting documents have arrived. International students may enroll at ASU only if they have been admitted to a degree program, a certificate program, or the postbaccalaureate teacher education program. They must meet all appropriate immigration standards and requirements.

Applications are processed when they are received. However, international applicants should submit all 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 \$50 (in U.S. funds) must accompany each application.

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

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

English Language Requirement. Applicants who are from a country whose native language is not English must provide evidence of English proficiency as indicated by acceptable scores on the Test of English as a Foreign Language (TOEFL), or the International English Language Testing System (IELTS), as follows:

1. The minimum TOEFL requirement for entry into any graduate program is 550 (paper-based) or 213 (computer-based).
2. The minimum IELTS requirement for entry into any graduate program is an overall band score of 6.5 with no individual band score below 6.0.
3. Individual academic units may have higher TOEFL or IELTS requirements for their various programs. Consult the department Web sites and this catalog for more information.

The following exceptions apply to the English proficiency requirement:

1. Applicants who have earned a bachelor's degree or higher from a regionally accredited university in the United States are exempt from the English proficiency requirement. This study must have been done within the United States.
2. Applicants who have completed a minimum of 12 semester hours of graduate level study at a regionally accredited college or university in the United States with a GPA of 3.00 or higher are exempt from the English proficiency requirement.
3. Applicants who have completed at least 90 semester credit hours (or equivalent) with a cumulative grade point average of 3.00 or higher (on a 4.00 scale) at a regionally accredited institution in the United States are exempt from the English proficiency requirement.
4. Applicants who have completed the American English and Culture Program Advanced 2 Level are exempt from the English proficiency requirement.

All international applicants who are from a country whose native language is not English 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 Speaking Proficiency English 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.

Additional Information

The Division of Graduate Studies does not have deadlines. Applications are processed as they are received. However, many academic units have specific and early deadlines; many units review applications only 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 Division of Graduate Studies. Many qualified applicants are denied because of limits on the number of students admitted each year.

Notice of Admission Decisions

Only the dean of graduate studies can make formal offers of admission. The Division of Graduate Studies 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.

Applicants are admitted into the university for the semester indicated on their admission letter and initiate their program by registering for courses. Courses taken before the semester of admission are considered credit completed before enrollment in the degree program. These courses are subject to restrictions, see the *Graduate Catalog* for more information.

Admission Classifications

Regular Admission. Applicants who fulfill all requirements for admission and are academically acceptable to both the academic unit and the Division of Graduate Studies 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. Deficiency courses 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 Division of Graduate Studies a change in status to either regular 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.

Postbaccalaureate Nondegree Admission. A student not immediately intending to earn a degree may enroll as a postbaccalaureate nondegree student. The application process is streamlined and does not require submission of transcripts or test scores. For postbaccalaureate nondegree admission information and procedures, access the Web site at www.asu.edu/graduate/admissions. 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. Also, 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.

DIVISION OF GRADUATE STUDIES PROCEDURES

Change in Graduate Degree Program

A change from one graduate degree program to another requires a new application to the Division of Graduate Studies. The usual admission procedures are followed. For details on matters relating to the application fee, see "Application Fee," page 154.

Readmission to the Division of Graduate Studies

Any graduate student who has not been in attendance at the university for one semester must submit an application for readmission to the Division of Graduate Studies. 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, access the Web site at www.asu.edu/graduate/admissions.

DIVISION OF GRADUATE STUDIES

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 updated.

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.

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 University Registrar's Office. 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. SunDial, 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

Withdrawal from the University. To withdraw from *all* classes after having paid registration fees, a student must submit a request to withdraw using ASU Interactive, SunDial, or submit a signed request to any registrar location. The ASU Interactive and SunDial complete withdrawal option is available through the semester transaction deadline. A student may withdraw from all courses with marks of "W" through the semester transaction deadline. See the *Schedule of Classes* or the *Summer Sessions Bulletin* for dates of the complete withdrawal periods. A student may not avoid any penalty for academic dishonesty by withdrawing from a course. A student may be reinstated to a course to receive a penalty of a reduced or failing grade, or XE.

Note: A graduate student who does not enroll for one calendar year is considered withdrawn from the university and must fully reapply for admission to resume his or her degree program.

Instructor-Initiated Drop. An instructor may drop a student for nonattendance during the second week of classes in fall or spring semesters or the first four days of each

summer session. Instructor-initiated drops for nonattendance are signed by the dean or dean's designee. The college notifies students by mail. The student must contact the instructor before the end of the first week of classes if absences during that period cannot be avoided.

Instructor-Initiated Withdrawal. An instructor may withdraw a student from a course with a mark of "W" or a grade of "E" (0.00) only if the student's continued presence in the course is disruptive to the instructor's ability to conduct the course. A student may appeal an instructor-initiated withdrawal within 10 days of being withdrawn to the standards committee of the college in which the course is offered. The decision of the committee is final.

Course Withdrawal. A student may withdraw with a grade of "W" from one or more classes beginning with the second week of classes through the tenth week of classes for the fall and spring semesters. For summer session classes, a student may withdraw with a grade of "W" from one or more classes from the seventh day of classes through the third week of the session. To withdraw from all classes a student must request a complete withdrawal. A student may not avoid any penalty for academic dishonesty by withdrawing from a course. A student may be reinstated to a course to receive a penalty of a reduced or failing grade, or XE.

Complete Withdrawal. A student may withdraw with a grade of "W" from all classes after the semester transaction deadline, or on the last day of classes.

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.

A student may not avoid any penalty for academic dishonesty by withdrawing from a course. A student may be reinstated to a course to receive a penalty of a reduced or failing grade, or XE.

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

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 teaching assistants, research assistants, teaching associates, and research associates.

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 semester hours of course work each semester; a third-time (33 percent) assistant or associate for more than 13 semester hours; and a quarter-time (25 percent) assistant or associate for more than 15 semester hours.

All graduate students doing research; working on theses or dissertations; taking comprehensive, Graduate Foreign Language, 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.

All doctoral students are expected to fulfill academic residence requirements. Contact the offices of individual degree programs for information on specific residency requirements.

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.

DIVISION OF GRADUATE STUDIES DEGREE REQUIREMENTS

Graduate Advising

The Division of Graduate Studies’ Referral Office offers general information about policies, procedures, requirements, and support services. Students with regular admission status should contact their academic unit for degree program advising and program of study planning.

Grading

The “Grades” table, on this page defines grades and gives their values.

Ordinarily the instructor of a course has full discretion in selecting which grades to use and report from the available grading options.

A grade of “P” (pass) in a 400-level course may not appear on a program of study. (The grade is not used at the

Grades

Grade	Definition	Value
A+	—	4.33 ¹
A	Excellent	4.00
A-	—	3.67
B+	—	3.33
B	Good	3.00
B-	—	2.67
C+	—	2.33
C	Passing	2.00
D	No graduate credit	1.00
E	Failure	0.00
I	Incomplete	—
NR	No report	—
W	Withdrawal	—
X	Audit	—
Y	Satisfactory	—
Z	Course in progress ²	—

¹ Although the scale includes a grade of A+ with a value of 4.33, the cumulative GPA is capped at 4.00.

² This grade is usually given pending completion of courses.

graduate level.) Grades on transfer work or ASU law credit are not included in computing GPAs.

Grades of “D” (1.00) and “E” (0.00) cannot be used to meet the requirements for a graduate degree, although they are used to compute GPAs. A student receiving a grade of “D” (1.00) or “E” (0.00) 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” (1.00) or “E” (0.00) 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

DIVISION OF GRADUATE STUDIES

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, and 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."

A grade of "W" is given whenever a student officially withdraws.

Repeating ASU Courses. Graduate students (degree or nondegree) may retake any course at any level at ASU, but all grades remain on the student transcript as well as in GPA calculations.

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. University policy protects students filing grievances and those who are witnesses 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 follow 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 Division of Graduate Studies, 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 course 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 graduate studies can withdraw a student who is not progressing satisfactorily.

The designation of honors (such as *cum laude*) is reserved for undergraduates. The Division of Graduate Studies 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 program of study. However, 400-level courses are not graduate courses by definition and cannot be certified as such for purposes of employment or transferring to other institutions.

Reserving of Course Credit by Undergraduates. Seniors at ASU within 12 semester hours of graduation may enroll in a 400-level or graduate-level course and reserve the credit for possible use in a future graduate program. The course cannot be used to meet a baccalaureate graduation requirement, however. Before registration in the class, the student must submit a Division of Graduate Studies 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 graduate studies.

Permission to reserve a course does not guarantee that the student is admitted 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 a grade of "B" (3.00) or higher 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 15 semester hours during a regular semester and six hours during a summer session.

Transfer Credit. Transfer of credit is the acceptance of credit from another institution for inclusion in a program of study leading to a degree awarded by ASU.

Under most circumstances, transfer credit may not be applied toward the minimum degree requirements for an ASU degree if they have been counted toward the minimum requirements for a previously-awarded degree.

At the individual academic unit's discretion, 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. At the academic unit's discretion, up to 12 hours of credit taken at another institution and not counted toward a previous degree may be counted toward the minimum semester hours required for a specific ASU doctoral degree program.

Transfer credit taken before admission to a graduate degree program at ASU is nondegree credit. Nondegree credit taken at ASU combined with nondegree credit taken at another institution may not exceed nine semester 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 dean of graduate studies' 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.

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 unit of credit different from the ones prescribed 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" (4.00) or "B" (3.00) 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 graduate studies 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. Generally, graduate supervisory committees must consist of a minimum of three individuals.

Academic professionals (e.g., research scientists, research engineers), nontenure-track faculty (e.g., adjunct professors, research professors), and individuals granted affiliated faculty status through established university procedures may serve as cochairs or members of thesis and dissertation committees upon approval by the Division of Graduate Studies. 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 Division of Graduate Studies.

Qualified individuals outside the university, upon the recommendation of the head of the academic unit and approval of the Division of Graduate Studies, may serve as members of thesis and dissertation committees; however, such individuals generally may not serve as chairs or cochairs (unless they have affiliated faculty status). With the approval of the academic unit and the dean of graduate studies, former ASU faculty with students completing their degrees may continue to serve as cochairs. At least half of the committee must be faculty from ASU.

Graduate Foreign Language Examination

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.

Students who are required to demonstrate proficiency in a foreign language must pass the Graduate 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. 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 Division of Graduate Studies for a reexamination but must pass the examination in no more than three attempts.

Students who take the Graduate Foreign Language Examination 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, 795 Continuing Registration—in the semester in which the exam is taken.

DIVISION OF GRADUATE STUDIES

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 (with a concentration in conducting or performance), which requires three recitals and a research paper. The PhD 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 Division of Graduate Studies 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 Division of Graduate Studies and at www.asu.edu/graduate/formatmanual on the Web. The student is required to submit a complete copy of the thesis or dissertation for format review at least 10 working days (two weeks if there are no holidays during the time period) before the proposed date of the oral defense. Doctoral students are encouraged to 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 Division of Graduate Studies allows certain flexibility in the format of the manuscript, but Division of Graduate Studies and library guidelines must be followed.

The student must submit two final copies of a thesis or dissertation to the ASU Bookstore for binding no later than one year following the date of the oral defense. 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 later appears in *Dissertation Abstracts International*.

Application for Graduation

Students should apply for graduation with the Graduation section of the University Registrar's Office no later than the date specified in the 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. When a student applies for graduation, the student is officially notified of any requirements he or she has 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 re-filing fee.

Summer Sessions

Work taken during summer sessions carries the same scholastic recognition as that taken during a 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 "Division of Graduate Studies Calendar," in the *Graduate Catalog*, lists deadlines for the submission of theses and dissertations to the Division of Graduate Studies, 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. This information is also available on the Web at www.asu.edu/graduate/generalinfo/GradDdlns. Published dates are subject to change.

Student Responsibility

Graduate students are responsible for knowing and observing all procedures and requirements of the Division of Graduate Studies as defined in the *Graduate Catalog*, the *Schedule of Classes*, and the *Format Manual*. Each student should also be informed about the requirements of his or her 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 university and/or other sanctions as specified in the academic integrity policies of 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 in the Office of Student Life, or on the Web at asu.edu/studentaffairs/studentlife/judicial/academic_integrity.htm.

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 President for Research and Economic Affairs and on the Web at www.asu.edu/aad/manuals/rsp/rsp210.html.

Intercollegiate Interdisciplinary Graduate Programs

Many graduate programs have an interdisciplinary dimension. The programs in this section are administered by the Division of Graduate Studies and/or by more than one college. Refer to the college sections for other interdisciplinary programs. For more information, see "Interdisciplinary Study," page 151.

Business Administration—PhD

The interdisciplinary PhD degree in Business Administration with a concentration in agribusiness is administered by the Morrison School of Agribusiness and Resource Management and W. P. Carey School of Business. The objective of this program is to produce scholars who are trained in the latest methods of business and economic analysis as they relate to agribusiness. Graduates of the agribusiness concentration are prepared to assume teaching and research positions at top-ranked research universities. For more information, see the *Graduate Catalog*.

Creative Writing—MFA

The interdisciplinary MFA degree in Creative Writing (with options in fiction, nonfiction, playwriting, and poetry) is administered by the Creative Writing Committee. This studio/academic program involves the research, creative activity, and teaching interests of faculty within the Department of English and School of Theatre and Film. 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*.

Exercise Science—PhD

The interdisciplinary PhD 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*.

Materials Science—MS

The interdisciplinary MS degree in Materials Science is administered by the Committee on the Science and Engineering of Materials. Faculty representing various disciplines provide a sound foundation for research leading to a thesis. Emphasis is placed on application of the core fundamentals for investigation of the relationships between syntheses, microstructure, physical and chemical properties, and the performance of solids in current technological applications. For more information, see the *Graduate Catalog*.

Science and Engineering of Materials—PhD

The interdisciplinary PhD degree in Science and Engineering of Materials is administered by the Committee on the Science and Engineering of Materials. Areas of concentration are available in high-resolution nanostructure analysis and solid-state device materials design. Emphasis is placed on the applications of chemical thermodynamics, the mechanics of solids, quantum mechanics and transport theory for investigation of the relationships between the 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)

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

Statistics—MS

The interdisciplinary MS degree in Statistics is administered by the Committee on Statistics. The program involves faculty and resources from multiple academic units, including the School of Accountancy and Information Management and the Department of Mathematics and Statistics. 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 Graduate Certificates" table, page 131).

Atmospheric Science

The interdisciplinary certificate program in Atmospheric Science is administered by an Executive Committee composed of faculty from the Ira A. Fulton School of Engineering and the College of Liberal Arts and Sciences. The objective of this program is to recognize ASU graduate students who specialize in a thesis or dissertation topic related to the atmospheric or oceanic sciences. For more information, see the *Graduate Catalog*.

Geographic Information Science

The interdisciplinary certificate program in Geographic Information Science (GIS) is administered by an executive committee. The objective of this program is to enable existing ASU graduate students and GIS professionals with advanced degrees to learn how to apply GIS concepts and technology for the purposes of spatial analysis. For more information, see the *Graduate Catalog*.

INTERCOLLEGIATE INTERDISCIPLINARY GRADUATE PROGRAMS

Gerontology

The interdisciplinary Certificate in Gerontology is administered by the Committee on Gerontology at the West campus. This program is open to individuals who have earned a baccalaureate degree. 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. For more information, see the *Graduate Catalog*.

Transportation Systems

The interdisciplinary Certificate in Transportation Systems program is administered by the Committee on Trans-

portation 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)

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.



Regents' Professor of Art Kurt Weiser is part of the faculty that has established the ceramics program as one of the nation's best as ranked by *U.S. News and World Report*.

Tim Trumble photo

ASU Graduate Degrees

Graduate degrees, majors, and concentrations offered by the Polytechnic, Tempe, and West campuses and through the School of Extended Education 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. See also the “Concurrent and Dual Degrees” table, page 169.

ASU offers these graduate degrees, abbreviated in the table below and elsewhere in the catalog:

Master of Accountancy and Information Systems (MAIS)
 Master of Advanced Study (MAS)
 Master of Architecture (MArch)
 Master of Arts (MA)
 Master of Business Administration (MBA)
 Master of Computer Science (MCS)
 Master of Computing Studies (MCST)
 Master of Counseling (MC)
 Master of Education (MEd)
 Master of Engineering (MEng)
 Master of Fine Arts (MFA)
 Master of Health Sector Management (MHSM)
 Master of Laws (LLM)
 Master of Legal Studies (MLS)

Master of Liberal Studies (MLSt)
 Master of Mass Communication (MMC)
 Master of Music (MM)
 Master of Natural Science (MNS)
 Master of Physical Education (MPE)
 Master of Public Administration (MPA)
 Master of Public Health (MPH)
 Master of Science (MS)
 Master of Science in Design (MSD)
 Master of Science in Engineering (MSE)
 Master of Science in Technology (MSTech)
 Master of Social Work (MSW)
 Master of Taxation (MTax)
 Master of Teaching English as a Second Language (MTESL)
 Master of Urban and Environmental Planning (MUEP)
 Professional Science Master’s (PSM)
 Doctor of Audiology (AuD)
 Doctor of Education (EdD)
 Doctor of Musical Arts (DMA)
 Doctor of Nursing Science (DNS)
 Doctor of Philosophy (PhD)
 Juris Doctor (JD)

ASU Graduate Degrees

Major	Degree	Concentration ¹	Campus
Accountancy and Information Systems	MAIS	—	Tempe
Aerospace Engineering	MS, MSE, PhD	—	Tempe
Agribusiness	MS	Optional: agribusiness management and marketing or food quality assurance ¹	Polytechnic
Anthropology	MA	Archaeology, bioarchaeology, linguistics, museum studies, physical anthropology, or social-cultural anthropology	Tempe
	PhD	Archaeology, physical anthropology, or social-cultural anthropology	Tempe
Applied Biological Sciences	MS	GIS/remote sensing, natural resource management, or range ecology	Polytechnic
Applied Psychology	MS	—	Polytechnic
Architecture	MArch	—	Tempe

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

² This program is also offered through the School of Extended Education.

³ Applications are not being accepted at this time.

⁴ This major is jointly offered with the University of Arizona.

⁵ Students may pursue this degree only in conjunction with the doctoral degree in the same unit, which admits students to only the doctoral degree program.

ASU GRADUATE DEGREES

ASU Graduate Degrees (continued)

Major	Degree	Concentration ¹	Campus
Art	MA	Art education or art history	Tempe
	MFA	Ceramics, digital technology, drawing, fibers, intermedia, metals, painting, photography, printmaking, sculpture, or wood	Tempe
Asian Languages and Civilizations—Chinese/Japanese	MA	—	Tempe
Audiology	AuD	—	Tempe
Bioengineering	MS, PhD	—	Tempe
Biology	MS, PhD	Optional: ecology ¹	Tempe
Biotechnology and Genomics	LLM	—	Tempe
Building Design	MS	Design knowledge and computing, energy performance and climate-responsive architecture, or facilities development and management	Tempe
Business Administration	MBA	—	Tempe ² West
	PhD	Accountancy, agribusiness, computer information systems, finance, health services research, ³ management, marketing, or supply chain management Agribusiness	Tempe Polytechnic
Chemical Engineering	MS, MSE, PhD	—	Tempe
Chemistry	MS, PhD	Analytical chemistry, biochemistry, geochemistry, inorganic chemistry, organic chemistry, physical chemistry, or solid-state chemistry	Tempe
Civil and Environmental Engineering	MS, MSE, PhD	—	Tempe
Communication	MA	—	Tempe
	PhD	Communicative development, intercultural communication, or organizational communication	Tempe
Communication Disorders	MS	—	Tempe
Communication Studies	MA	—	West
Composition	MM	Optional: interdisciplinary digital media and performance ¹	Tempe
Computational Biosciences	PSM	—	Tempe
Computer Science	MCS	—	Tempe
	MS, PhD	Optional: arts, media, and engineering ¹	Tempe
Computing Studies	MCST	—	Polytechnic
Construction	MS	Optional: construction science, facilities, or management ¹	Tempe
Counseling	MC	—	Tempe
Counseling Psychology	PhD	—	Tempe
Counselor Education	MEd	—	Tempe
Creative Writing	MFA	—	Tempe
Criminal Justice	MA	—	West

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

² This program is also offered through the School of Extended Education.

³ Applications are not being accepted at this time.

⁴ This major is jointly offered with the University of Arizona.

⁵ Students may pursue this degree only in conjunction with the doctoral degree in the same unit, which admits students to only the doctoral degree program.

ASU Graduate Degrees (continued)

Major	Degree	Concentration ¹	Campus
Curriculum and Instruction	MA	Bilingual education, early childhood education, elementary education, English as a second language, Indian education, language and literacy, mathematics education, science education, secondary education, or social studies education	Tempe
	MEd	Bilingual education, early childhood education, elementary education, English as a second language, Indian education, language and literacy, mathematics education, professional studies, science education, secondary education, or social studies education	Tempe ²
	EdD	English as a second language, instructional media in K–12 schools, or professional studies Bilingual education, ³ curriculum studies, early childhood education, elementary education, ³ English as a second language, ³ Indian education, ³ language and literacy, mathematics education, science education, secondary education, or social studies education ³	Polytechnic Tempe
	PhD	Art education, curriculum studies, early childhood education, elementary education, English education, language and literacy, mathematics education, science education, or special education Exercise and wellness education, physical education	Tempe Polytechnic
Dance	MFA	Optional: interdisciplinary digital media and performance ¹	Tempe
Design	MSD	Graphic design, industrial design, or interior design	Tempe
Economics	MS ³ , PhD	—	Tempe
Educational Administration and Supervision	MEd	—	Tempe ² West
	EdD	—	Tempe
Educational Leadership and Policy Studies	PhD	—	Tempe
Educational Psychology	MA, MEd	—	Tempe
	PhD	Learning; lifespan developmental psychology; measurement, statistics, and methodological studies; or school psychology	Tempe
Educational Technology	MEd, PhD	—	Tempe
Electrical Engineering	MS, PhD	Optional: arts, media, and engineering ¹	Tempe
	MSE	—	Tempe ²
Elementary Education	MEd	Optional: bilingual education, educational technology, ESL education, or reading ¹	West
Engineering	MEng	—	Tempe ²
Engineering Science	MS	—	Tempe
	MSE	Executive embedded systems	Tempe ²
	PhD	Materials science and engineering	Tempe
English	MA	Comparative literature, English linguistics, literature and language, or rhetoric and composition	Tempe
	PhD	Literature or rhetoric/composition and linguistics	Tempe

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

² This program is also offered through the School of Extended Education.

³ Applications are not being accepted at this time.

⁴ This major is jointly offered with the University of Arizona.

⁵ Students may pursue this degree only in conjunction with the doctoral degree in the same unit, which admits students to only the doctoral degree program.

ASU GRADUATE DEGREES

ASU Graduate Degrees (continued)

Major	Degree	Concentration ¹	Campus
Environmental Design and Planning	PhD	Design; history, theory, and criticism; or planning	Polytechnic Tempe
Exercise and Wellness	MS	—	Polytechnic
Family and Human Development	MS	Optional: family studies ¹	Tempe
Family Science	PhD	Optional: marriage and family therapy ¹	Tempe
French	MA	Comparative literature, linguistics, or literature	Tempe
Geographic Information Systems	MAS	—	Tempe
Geography	MA, PhD	—	Tempe
Geological Sciences	MS, PhD	—	Tempe
German	MA	Comparative literature, language and culture, or literature	Tempe
Health Sector Management	MHSM	—	Tempe ²
Higher and Postsecondary Education	MEd, EdD	Optional: higher education ¹	Tempe
History	MA	Asian history, British history, European history, Latin American history, public history, U.S. history, or U.S. Western history	Tempe
	PhD	Asian history, British history, European history, Latin American history, or U.S. history	Tempe
History and Theory of Art ⁴	PhD	—	Tempe
Industrial Engineering	MS, MSE, PhD	—	Tempe
Information Management	MS	—	Tempe
Interdisciplinary Studies	MA	Optional: gerontology ¹	West
Justice Studies	MS	—	Tempe
	PhD	Optional: criminal and juvenile justice; dispute resolution; law, justice, and minority populations; law, policy, and evaluation; or women, law, and justice ¹	Tempe
Kinesiology	MS	—	Tempe
	PhD	Biomechanics, motor behavior/sport psychology, or physiology of exercise	Tempe
Law	JD	—	Tempe
Leadership and Innovation	EdD	Leadership in policy and administration or leadership of teaching innovation	West
Legal Studies	MLS	—	Tempe
Liberal Studies	MLSt	—	Tempe
Mass Communication	MMC	—	Tempe
Materials Engineering	MS, MSE	—	Tempe
Materials Science	MS	—	Tempe
Mathematics	MA	—	Tempe
	PhD	Optional: Computational biosciences ¹	Tempe
Mechanical Engineering	MS, MSE, PhD	—	Tempe

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

² This program is also offered through the School of Extended Education.

³ Applications are not being accepted at this time.

⁴ This major is jointly offered with the University of Arizona.

⁵ Students may pursue this degree only in conjunction with the doctoral degree in the same unit, which admits students to only the doctoral degree program.

ASU Graduate Degrees (continued)

Major	Degree	Concentration ¹	Campus
Microbiology	MS, PhD	—	Tempe
Molecular and Cellular Biology	MS	—	Tempe
	PhD	Optional: Computational biosciences ¹	Tempe
Music	MA	Ethnomusicology, music history and literature, or music theory	Tempe
	DMA	Conducting, interdisciplinary digital media and performance, music composition, music education, or performance	Tempe
Music Education	MM	Choral music, general music, instrumental music, or jazz studies	Tempe
Music Therapy	MM	—	Tempe
Natural Science	MNS	Biology, chemistry, geological sciences, mathematics, microbiology, physics, and/or plant biology	Tempe
Nursing	MS	Adult health nursing, community health nursing, family health nursing, nursing administration, ³ parent-child nursing, psychiatric/mental health nursing, or women's health	Downtown ²
	DNS	Health processes or health outcomes	Downtown
Nutrition	MS	—	Polytechnic
Performance	MM	Collaborative piano, music theatre/opera musical direction, music theatre/opera performance, performance, or performance pedagogy	Tempe
Philosophy	MA, PhD	—	Tempe
Physical Activity, Nutrition, and Wellness	PhD	—	Polytechnic
Physical Education	MPE	—	Polytechnic
Physics	MS, PhD	—	Tempe
Plant Biology	MS, PhD	Optional: ecology or photosynthesis ¹	Tempe
	PhD	—	Polytechnic
Political Science	MA, PhD	American politics, comparative politics, international relations, or political theory	Tempe
Psychology	MA ⁵	—	Tempe
	PhD	Behavioral neuroscience, clinical psychology, cognitive/behavioral systems, developmental psychology, quantitative research methods, or social psychology	Tempe
Public Administration	MPA	Optional: nonprofit administration ¹	Downtown ²
	PhD	—	Downtown
Public Health ³	MPH	Community health practice or health administration and policy	Tempe
Recreation	MS	—	Downtown
Religious Studies	MA, PhD	—	Tempe
Science and Engineering of Materials	PhD	High-resolution nanostructure analysis or solid-state device materials design	Tempe
Secondary Education	MEd	Optional: educational technology ¹	West

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

² This program is also offered through the School of Extended Education.

³ Applications are not being accepted at this time.

⁴ This major is jointly offered with the University of Arizona.

⁵ Students may pursue this degree only in conjunction with the doctoral degree in the same unit, which admits students to only the doctoral degree program.

ASU GRADUATE DEGREES

ASU Graduate Degrees (continued)

Major	Degree	Concentration ¹	Campus
Social and Philosophical Foundations of Education	MA	—	Tempe
Social Work	MSW	Advanced direct practice or planning, administration, and community practice Advanced generalist practice	Downtown ²
	PhD	—	West Downtown
Sociology	MA, PhD	—	Tempe
Spanish	MA	Comparative literature, language and culture, linguistics, or literature	Tempe
	PhD	Cultural studies or literature	Tempe
Special Education	MA	—	Tempe
	MEd	Gifted, mildly disabled, multicultural exceptional, or severely/multiply disabled Infants and young children	Tempe West
Speech and Hearing Science	PhD	Developmental neurolinguistic disorders, neuroauditory processes, or neurogerontologic communication disorders	Tempe
Statistics	MS	—	Tempe
Taxation	MTax	—	Tempe
Teaching English as a Second Language	MTESL	—	Tempe
Technology	MSTech	Aeronautical engineering technology, aviation management and human factors, computer systems, electronic systems engineering technology, environmental technology management ³ , fire service administration ² , global technology and development, graphic information technology, instrumentation and measurement technology, management of technology, manufacturing engineering technology, mechanical engineering technology, microelectronics engineering technology, or security engineering technology	Polytechnic
Theatre	MA	—	Tempe
	MFA	Directing, interdisciplinary digital media, performance, performance design, or theatre for youth	Tempe
	PhD	Theatre and performance of the Americas or theatre for youth	Tempe
Tribal Policy, Law, and Government	LLM	—	Tempe
Urban and Environmental Planning	MUEP	—	Tempe

¹ If a major offers concentrations, one must be selected unless noted as *optional*.

² This program is also offered through the School of Extended Education.

³ Applications are not being accepted at this time.

⁴ This major is jointly offered with the University of Arizona.

⁵ Students may pursue this degree only in conjunction with the doctoral degree in the same unit, which admits students to only the doctoral degree program.

Concurrent and Dual Degrees

Degrees	Administered By
JD/MBA	College of Law/W. P. Carey School of Business
JD/MD	College of Law/Mayo Medical School
JD/MHSM	College of Law/School of Health Management and Policy
JD/MS in Economics*	College of Law/Department of Economics
JD/PhD in Justice Studies	College of Law/School of Justice and Social Inquiry
JD/PhD in Psychology	College of Law/Department of Psychology
MA in Anthropology/MS in Justice Studies	School of Human Evolution and Social Change/School of Justice and Social Inquiry
MAIS/MBA	W. P. Carey School of Business
MArch/MBA	School of Architecture and Landscape Architecture/ W. P. Carey School of Business
MBA/MHSM	W. P. Carey School of Business
MBA/MS in Economics*	W. P. Carey School of Business
MBA/MSE in Electrical Engineering	W. P. Carey School of Business and Department of Electrical Engineering
MBA/MS in Information Management	W. P. Carey School of Business
MBA/MTax	W. P. Carey School of Business
MBA/Master of International Management	W. P. Carey School of Business/Carlos III University of Madrid (Spain); Graduate School of Business Administration (Peru); Graduate School of Commerce (France); Monterrey Institute for Technical and Superior Studies, Mexico State Campus (Mexico); and Thunderbird, the Garvin School of International Management
MS in Nursing/MPH*	College of Nursing/University of Arizona College of Public Health
MSE in Industrial Engineering/Master of International Management of Technology	Department of Industrial Engineering/Thunderbird, the Garvin School of International Management

* Applications for this program are not being accepted at this time.

Joint Undergraduate/Graduate Degrees

Degrees	Administered By
BA/MA in Political Science	College of Liberal Arts and Sciences/Department of Political Science
BS/MA in Mathematics	College of Liberal Arts and Sciences/Department of Mathematics and Statistics
BS/MS in Biology	College of Liberal Arts and Sciences/School of Life Sciences
BS/MS in Computer Science	Department of Computer Science and Engineering
BSE in Computer Systems Engineering/MS in Computer Science	Department of Computer Science and Engineering
BSE/MS in Aerospace Engineering	Department of Mechanical and Aerospace Engineering
BSE/MS in Mechanical Engineering	Department of Mechanical and Aerospace Engineering
BS in Computational Mathematical Sciences/MA in Mathematics	College of Liberal Arts and Sciences/Department of Mathematics and Statistics

International Programs

ipo.asu.edu

William G. Davey, PhD, Director

PURPOSE

Arizona State University is an internationally recognized research and doctoral granting institution. The International Programs Office (IPO) is responsible for developing and implementing a wide variety of international policies and activities. As part of the Office of the Executive Vice President and Provost, IPO administers university study programs abroad, visiting scholar programs at ASU, and protocol for international visitors. In cooperation with academic and administrative units, IPO develops international policies for ASU, represents the international interests of the university to the community at large, administers scholarships for studying abroad, supports faculty exchanges, and facilitates joint international research and training projects. IPO also represents the university's international interests to professional organizations and government agencies. The Office of Immigration Programs for International Faculty and Scholars within IPO assumes responsibility for international visitors who come to work, study, or conduct research on

the ASU campuses, and also operates one of the nation's first U.S. Passport Offices located at a state university.

ACADEMIC PROGRAMS

The Department of State-sponsored IIE Open Doors report ranks ASU as one of the nation's top twenty institutions in terms of student international mobility. In increasing numbers, students have chosen ASU because of its excellence in international programs, including extensive international study opportunities.

Two types of programs—study abroad and student exchange—are designed to enhance the academic development, professional preparation, and international perspective of students.

IPO offers more than 200 fall and spring semester and year-long international programs for ASU resident credit. Students on an IPO study abroad or exchange program retain full-time student status and the catalog status they held at the time of their departure. Study Abroad and Exchange Programs are available in Albania, Argentina, Armenia, Australia, Austria, Belgium, Brazil, Canada, Chile, China, Costa Rica, Czech Republic, Denmark, Dominican Republic, Ecuador, Egypt, England, France, Germany, Ghana, Greece, Hungary, India, Ireland, Israel, Italy, Japan, Jordan, Macedonia, Mexico, Netherlands, New Zealand, Norway, Poland, Portugal, Russia, Scotland, Senegal, Serbia, Singapore, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, and Vietnam.

For a current list of host universities (in the countries listed in the previous paragraph) and the programs they offer, view the program menu on the IPO Web site at ipo.asu.edu/asu/program.

Exchange Programs. Exchange programs are those in which ASU students may study at a foreign institution, and students from that institution have a reciprocal opportunity to study at ASU. Participants simply pay their normal registration fees and tuition at ASU. For exchange programs, 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. 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 obtain advanced-level intensive language instruction for approximately one month in the host country before the start of the academic term.



China is a dynamic study abroad destination with many unique cultural landmarks, including this mosque in Xi'an.

Diana Chu photo

Diverse program locations for students proficient in the host language include Chile, France, Germany, Korea, Mexico and more. Students desiring exchange programs with English as the language of instruction may consider programs in not only Australia, England, New Zealand, and Scotland, but also Austria, Netherlands, Scandinavia, Singapore, and Thailand. IPO also offers special exchanges in Japan, Italy, and Mexico where both English and the host language may be used.

Study Abroad Programs. IPO offers a world of study abroad programs, which are distinct from exchange programs in two ways: (1) rather than pay one's ASU tuition for the terms abroad as exchange programs require, participants simply pay a program fee to IPO that covers costs associated with that particular program, and financial aid may be applied to the program fee; (2) there is no reciprocal exchange of students (no foreign students come to ASU for the participants IPO sends abroad).

IPO Exchange and study abroad programs are administered in three ways:

1. direct programs,
2. partnership programs, and
3. specialty programs.

Direct Programs. ASU offers numerous study abroad and exchange program destinations through direct affiliation with overseas schools and universities. IPO direct programs can accommodate students from nearly every ASU major and suit a variety of personal preferences.

Partnership Programs. IPO works in conjunction with select major national program providers, such as the *American Institute for Foreign Study (AIFS)*, *International Studies Abroad (ISA)*, the *Institute for Study Abroad, Butler University (IFSA, Butler)*, and the *Council for International Educational Exchange (CIEE)*, to expand the number of quality program choices available to ASU students. Partnership programs offer opportunities for ASU students to study abroad through IPO on programs offered by these reputable partners while still maintaining enrollment at ASU, allowing access to ASU financial aid and resulting in ASU resident credit.

Specialty Programs. Specialty programs are specifically designed by one academic unit (school, college, or department), are partly administered by that unit in cooperation with IPO, and are only available to students from that academic area. Specialty programs are offered by the College of Human Services (for social work), the College of Education (for student teaching), the College of Law, the Ira A. Fulton School of Engineering, the Morrison School of Agribusiness and Resource Management, the School of Architecture, and the W. P. Carey School of Business.

International Programs maintains close ties with ASU's area studies programs, including the Center for Asian Studies, the programs in Korean Studies and Southeast Asian Studies, the Latin American Studies Center, and the Russian and East European Studies Consortium. Many IPO programs are specifically designed for students in these areas.

Close relationships are maintained with a number of campus partners. IPO cooperates with the Office of Pan-

American Initiatives in the development of international relationships with international exchange and research opportunities throughout the Americas. 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 W. P. Carey School of Business and College of Liberal Arts and Sciences maintain advising services and offer scholarships for their students intending to study abroad.

International Internship Opportunities. The International Programs Office provides numerous programs with professional credit-bearing international internship opportunities. IPO is affiliated with European Study Abroad to offer an eight-week, six semester hour internship in London or Madrid. Internship placements are available for most majors. In addition to the internship, students take two academic courses relating to the culture, language, and politics of the host country. Internship opportunities may be available in Australia, England, Germany, Ireland, and Mexico.

Procedures. Students interested in participating in such programs should contact the International Programs Office in TMPCT 198.

IPO assists students through every stage of planning, preparation, participation, and return from exciting international educational experiences. International Program coordinators are available to assist students in choosing a program that meets academic, personal, and professional goals.

Information on programs can be obtained from the International Programs Office in TMPCT 198, from the IPO Web page at ipo.asu.edu, or by phone at 480/965-5965.

How to Apply. Students interested in applying for an international program start the process by attending a Study Abroad 101 information session, held every Tuesday, Wednesday, and Friday from 3:30 P.M. to 4:30 P.M. at IPO. Students may then set up a personal account called myIPO at ipo.asu.edu/myipo. Through myIPO, students select their program preference and begin the application process. Eligible students then obtain the program specific application packet at IPO. Completed application packets are due to IPO by October 1, for spring programs, and by March 1, for fall and academic year programs. After the application process is completed, students attend predeparture orientations conducted by IPO. The presentations prepare participants for a comfortable and rewarding international experience.

Immigration Programs for International Faculty and Scholars. The International Faculty and Scholars Office (Immigration/Employment Visa Services) of the IPO is responsible for administration of the university's Exchange Visitor Program and Employment-Based Visa Programs. The responsibilities of this office also include providing information, guidance, and advice to the various departments, programs, and colleges of the Polytechnic, Tempe, and West campuses, as well as to the university's faculty, staff, students, and guests on questions and issues related to the university's J-1 Exchange Visitor and Employment-Based Visa programs and other immigration-related issues.

Summer Sessions

www.asu.edu/summer

Carol Switzer, MS, Director

PURPOSE

Summer Sessions offers more than 4,000 fully accredited courses and provides 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.

The program offers two five-week sessions and one eight-week session. See "University Calendar," page 22, for specific dates.

All Tempe campus courses (except some KIN courses) are held in air-conditioned classrooms or laboratories. A number of courses are offered at off-campus locations.

Through various summer study programs, ASU also offers students the opportunity to earn credit while studying in foreign countries. These programs are directed by ASU faculty and have been approved by the appropriate academic unit.

For more information, access the Summer Sessions Web site at www.asu.edu/summer.

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

Admission. All students must be admitted to ASU for the summer as nondegree students before enrolling, except continuing students who attend during the previous spring semester. New students admitted for the fall semester following the current summer must process the summer nondegree admission form before enrolling. The submission of transcripts or test scores is not required to attain this status.

Readmission. ASU students not enrolled during the spring semester preceding the current summer must be readmitted. See "Readmission to the University," page 80.

Conditional admission before graduation from high school may be granted. See "Admission Before Receipt of Final Transcript," page 67.

Advising. All students are strongly encouraged to seek academic advising before enrolling in summer courses. See "Academic Advising," page 79.

Bulletin. The *Summer Sessions Bulletin*, which contains the class schedule and the registration procedure, is available in early March at the Office of Summer Sessions, RITT B160, and at all registrar locations. The *Summer Sessions Bulletin* is also available on the Web at www.asu.edu/summer.

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 870601
TEMPE AZ 85287-0601

Food Services. Meal plans are available. For more information, access the Web site at www.asucampusdining.com, call 480/965-3464, or write

CAMPUS DINING
ARIZONA STATE UNIVERSITY
PO BOX 871101
TEMPE AZ 85287-1101

Housing. Air-conditioned residence halls are available for Tempe campus students. For more information, access the Web site at www.asu.edu/studentaffairs/reslife, call 480/965-3515, or write

RESIDENTIAL LIFE
ARIZONA STATE UNIVERSITY
PO BOX 870212
TEMPE AZ 85287-0212

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 74.

Parking. A decal is required to park at ASU. For more information, access the Web site at www.asu.edu/dps/pts, call 480/965-6124, or write

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

Registration. Registration may be completed online, by using SunDial, or in person. For more information, 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. For more information, see the *Summer Sessions Bulletin*.

Downtown Phoenix Campus

www.asu.edu/downtownphoenix

Mernoy E. Harrison Jr., PhD,
Vice President, ASU; Provost, Downtown Phoenix Campus

Arizona State University is partnering with the City of Phoenix to build a modern, vibrant university campus in downtown Phoenix as part of a larger plan to revitalize and redevelop the city's urban core. ASU envisions a campus embedded within the city, embracing the cultural, socioeconomic, and physical setting of urban downtown Phoenix in the 21st century. The first phase of the campus will open in the fall semester of 2006. The full manifestation of ASU in downtown Phoenix is likely to take more than 10 years to achieve. When fully developed, the new full-service downtown Phoenix campus will serve 15,000 students, with academic buildings, student and nonstudent housing, compatible retail development, and cultural programs that create an active 24/7 environment. Current plans call for the College of Nursing, the Walter Cronkite School of Journalism and Mass Communication, the College of Public Programs (which includes the School of Community Resources and Development, the School of Social Work, and the School of Public Affairs), and KAET-TV (Channel 8) to relocate from the Tempe campus to downtown Phoenix.

In addition, University College has been created to provide undergraduate students with a cross-college alternative to the existing majors. Construction of the campus is being designed around the planned light rail system, which will provide a 20-minute commute between the downtown Phoenix and Tempe campuses.

CAMPUS STUDENT SERVICES

The Downtown Phoenix campus will have an array of student services, including but not limited to the following:

1. admissions and registration services,
2. academic advising,
3. Associated Students—student government,
4. ASU shuttle service,
5. bookstore,
6. counseling,
7. career services,
8. disability resource center,
9. financial aid services,
10. food service,
11. library services,
12. mail/postal services,
13. multicultural student services,
14. parking,
15. recreation and wellness and fitness,
16. student employment,
17. student housing—residential life,
18. student health care, and
19. tutoring.

For more information, access the Downtown Phoenix campus Web site at www.asu.edu/downtownphoenix.



A view of downtown Phoenix

Randy Bailey photo

College of Nursing

nursing.asu.edu

Bernadette M. Melnyk, PhD, Dean

Admission	174
Academic Advising	176
Degrees	176
Graduate Certificate Programs	178
College Degree Requirements	178
Major Requirements	178
Academic Standards	179
Grading Policy for Nursing Courses	180
Student Responsibilities	180
Special Programs	180
General Information	181
Faculty and Courses	182

PURPOSE

The faculty in the College of Nursing acknowledge their responsibility to health care consumers for the preparation through teaching, research, practice, and service of individuals who can provide professional quality nursing care. 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, post-master's, doctoral, 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 activities that strengthen the knowledge base of the discipline, improve evidence-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 under three associate deans: academic affairs, research, and clinical practice and community partnerships.

The college offers an undergraduate program leading to a Bachelor of Science in Nursing (BSN) degree, a Master of Science (MS) degree in Nursing with preparation for advanced practice in nursing, a Doctor of Nursing Science (DNS) degree, and continuing and extended education opportunities for RNs, which include RN-BSN and RN-BSN-MS program tracks. A Post-Master's Nurse Practitioner program and a Graduate Certificate in Evidence-Based Practice in Nursing and Healthcare are also available.

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 requires a separate application to the College of Nursing and is competitive, with the greatest emphasis placed on grade point average based on selected prerequisite courses.

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 and information about application materials and deadlines.

Transfer Credits. While ASU accepts transfer credit from other accredited institutions, all transfer credit may not apply toward a BSN 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 has a transfer partnership agreement with the Maricopa Community College District. See a College of Nursing academic advisor for details. The college may not accept transfer credit (especially science) completed more than seven years before the date of application to the professional program.

Professional Program Admission. Individuals interested in applying to the professional program must receive advising from a College of Nursing academic advisor and are 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 the Downtown campus as a premajor Nursing student;
2. academic good standing at ASU and in the College of Nursing;
3. minimum prerequisite GPA of 2.75;
4. completion of designated prerequisite courses with an earned grade of "C" (2.00) or higher in each course;
5. completion of all application materials;
6. submission of all required health and immunization requirements;
7. a Test of English as a Foreign Language (TOEFL) score of 550 or higher for international students (see "TOEFL," page 73);
8. receipt of entrance examination scores; and
9. 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 fingerprint clearance card; and
5. other required materials.

Professional program courses are offered at the Downtown campus, the Mayo campus, the Polytechnic campus, and the West campus. 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.

The four semester (64 semester hour) professional program is available in two options: (1) a 24-month option with classes scheduled during the fall and spring semesters at the Downtown campus, and (2) a 16-month year round option with classes scheduled during fall, spring, and summer sessions with minimal breaks between semesters available at various sites. For more information, visit the Web site at nursing.asu.edu, or contact the College of Nursing Student Services Office.

Opportunities for individual, direct, and group patient care are available in a variety of settings: community clinics; health fairs; hospice; geriatric facilities; schools; industries; hospitals; home health; and rehabilitation agencies.

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 Admission," page 66) 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 accompanied by 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. Each RN must show evidence of a current unencumbered Arizona RN license or one from a compact state recognized by the Arizona State Board of Nursing. 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, 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 academic advisor in planning their program of study. See "Professional Program Admission," page 174, for admission criteria into the BSN professional program. Registered nurses are admitted into the RN-BSN *only* program track twice a year, in January and in August.

Additional admission criteria required for application to the RN-BSN-MS program track include submission of

1. GRE scores;
2. current résumé;
3. statement of career goals;
4. three references (forms provided);
5. interview;
6. minimum prerequisite GPA of 3.00; and
7. other required materials.

RNs are accepted into the RN-BSN-MS 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 in good standing;
2. transcripts from all colleges attended; and
3. all other admission requirements as outlined under "Admission," page 174.

Arizona State Board of Nursing Requirement. To be eligible to take 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.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF NURSING

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 (two MMRs or appropriate titers);
2. proof of annual tuberculosis screening;
3. completed series of hepatitis B vaccine;
4. proof of hepatitis B titer;
5. current American Heart Association Level C CPR Certification;
6. proof of tetanus, diphtheria immunization (TD);
7. proof of varicella (chicken pox) immunization; and
8. proof of negative drug screen.

A student may not participate in any clinical experience without meeting these requirements.

An annual flu vaccine is also recommended; other health information may be required. While the Hepatitis A vaccination is not required for admission, information on who might benefit from the vaccination is available from the College of Nursing Student Services Office.

Latex Sensitivity. Healthcare workers are at risk for developing Latex allergies, which may be life threatening. It is the student's responsibility to report if an allergy or sensitivity to Latex products is suspected; medical care is imperative for diagnosis, guidance, and treatment.

Fingerprint Clearance. All College of Nursing students admitted to the professional program must submit a photocopy of their fingerprint clearance card to the Student Services Office by the first day of class.

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. Some clinical experiences may require students to purchase their own protective devices. For complete details, call an advisor in the Student Services Office at 480/965-2987.

ASU Health Requirements. See "Undergraduate Admission," page 66, and "Immunization Requirements," page 74.

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.

ACADEMIC ADVISING

Academic advising, provided by the College of Nursing through the Student Services Office, is an essential aspect of the education experience; see "Academic Advising," page 79.

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. Call 480/965-2987 (see "Student Services," page 181). Advisor appointments are also available at West campus, the Polytechnic campus, and at several community colleges in the area. 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. All students on probation are required to meet with an advisor to plan strategies for improving their academic standing.

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 first semester of the professional program.

Student Employment. Each of the four semesters in the prelicensure professional program is composed of 16 semester hours. Seven to eight of these semester hours reflect three days in clinical laboratory practicum experience. The remaining eight to nine semester hours reflect classroom hours with preparation and study requiring additional time and effort. It is suggested that any other extracurricular activities or employment be kept at a minimum.

DEGREES

Nursing—BSN

The completion of the curriculum leads to a Bachelor of Science in Nursing (BSN) 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, specific population groups, and communities. The

undergraduate program provides students with a foundation for graduate studies in nursing at the master's level.

Professional program courses are offered at four locations: the Downtown Phoenix campus, the Polytechnic campus, the Mayo campus, and the West campus. To be eligible to enroll in the professional courses at any location, students must be admitted to the College of Nursing, submit all required material for admission to the professional program, and be admitted to the college's undergraduate professional program.

Program objectives for the undergraduate curriculum are directed toward preparation of graduates with generalist abilities. Based on theoretical and empirical knowledge from nursing, the humanities, and physical, biological, and behavioral sciences, graduates are prepared to

1. combine theoretical knowledge from the sciences, humanities, and nursing as a base for critical thinking in professional nursing practice and develop understanding of client, health, environment, and nursing;
2. design comprehensive therapeutic nursing care in partnership with individuals, families, groups, populations, and communities, including those who are culturally diverse and/or vulnerable and at risk for health disparities;
3. provide safe, competent, and effective nursing care using principle-based communication, technical/psychomotor, teaching, management, and therapeutic skills;
4. generate own professional practice that focuses on health promotion, risk reduction, disease prevention and illness and disease management from a holistic perspective;
5. analyze and apply research findings to promote evidence-based nursing practice;
6. display values and behaviors consistent with the culture of professional nursing;
7. display personal and leadership characteristics appropriate for providers, designers, managers, and coordinators of care;
8. display responsibility and accountability for providers, designers, managers, and coordinators of care;
9. collaborate with nurses, other health care providers, and clients in the delivery of holistic care that is responsive to changing needs, sociopolitical, and global environmental factors; and
10. analyze current nursing and health care services and trends, and identify future health care needs.

Nursing—RN Program Tracks

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 in the expanding health care arena. 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 a program that meets their unique needs and interests.

Two program tracks are available for RNs. The RN-BSN *only* and the RN-BSN-MS program tracks are structured to provide an accessible, accelerated, and predictable pathway through the program.

RN-BSN Only. The RN-BSN *only* program track offers RNs the opportunity to complete upper-division professional nursing courses 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. Completion of upper-division general education requirements may require additional time beyond the one year of professional nursing courses. Satisfactory completion of all general education and nursing prerequisite courses with a grade of "C" (2.00) or higher and an earned minimum prerequisite GPA of 2.75 is required. RNs are accepted into the RN-BSN *only* program track twice a year (January and August). See "Admission of Registered Nurses (RNs)," page 175.

RN-BSN-MS. The RN-BSN-MS program track, designed for highly motivated and experienced RNs, reflects an expansion of the RN-BSN *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" [3.00] or higher) that apply toward their baccalaureate degree. Satisfactory completion of all general education and nursing prerequisite undergraduate courses with a grade of "C" (2.00) or higher and an earned minimum prerequisite GPA of "B" (3.00) is required. See "Admission of Registered Nurses (RNs)," page 175.

The RN to master's degree program requires students to complete a minimum of 30 semester hours with a grade of "B" (3.00) or higher in all courses in the master's program of study.

Nursing—MS

The faculty in the College of Nursing offer a program leading to an MS degree in Nursing with concentrations in

1. adult health nursing with tracks in the primary care of chronically ill adults;
2. community health nursing;
3. psychiatric/mental health nursing;
4. family health nursing;
5. women's health;
6. parent-child nursing with the tracks in primary or acute care nursing of children, and neonatal programs; and
7. the nurse educator program.

The program requires a minimum of 40 semester hours with an earned grade of "B" (3.00) or higher in all courses in the program of study. Students in the nurse practitioner options are required to complete additional semester hours.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF NURSING

Requirements for this program are described in the *Graduate Catalog*. Persons interested in applying for admission to the program should write to the Division of Graduate Studies for a *Graduate Catalog* and application form (see "Admission to the Division of Graduate Studies," page 153) and contact the College of Nursing Student Services Office.

Nursing—DNS

An innovative Doctor of Nursing Science program prepares students to pursue a career as a leader in health policy, healthcare delivery, nursing education, and/or research. Emphasis is on application of research and theory in nursing practice. For more information, access the Web site at nursing.asu.edu.

GRADUATE CERTIFICATE PROGRAMS

Nurse Educator Program

The Graduate Certificate in Nurse Education in Academic and Practice Settings is a 14-semester-hour program. It is designed for nurses from academic or practice settings who want to prepare themselves for teaching in the rapidly changing landscape of nursing education. These courses can also be taken concurrently in the nursing master's program. For more information, access the Web site at nursing.asu.edu/programs/graduate/certificate/ned.

Evidence-Based Practice in Nursing and Healthcare Program

This post-master's Graduate Certificate in Evidence-Based Practice in Nursing and Healthcare program prepares nurse clinicians and other healthcare professionals as experts in evidence-based practice (EBP) and as system-wide change agents for the advancement of and sustainability of EBP. EBP is the conscientious use of best evidence (i.e., research findings, findings from quality improvement and practice management initiatives, and findings from patient assessment), in combination with clinician expertise and patient preferences and values, in clinical decision making. The EBP graduate certificate is a 17-semester-hour program offered on a consecutive 12-month basis beginning in January each calendar year. The program is designed to facilitate networking and support among the cohort of students; therefore, courses must be taken sequentially during the 12-month period. For more information, access the Web site at nursing.asu.edu/caep.

SCHOOL OF EXTENDED EDUCATION

The university-wide School of Extended Education provides an interactive link between ASU and the diverse communities it serves. The college assesses lifelong learning requirements and works in partnership with campuses, other colleges, and the community to serve learners, using a network of locations, programs, schedules, and technologies.

For more information, see "School of Extended Education," page 134, 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. For more information, see "University Graduation Requirements," page 89.

First-Year Composition Requirement

Completion of both ENG 101 and 102 or ENG 105 or equivalent with a grade of "C" (2.00) 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 93. Note that all three General Studies awareness areas are required. Consult an 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 96, in the *Schedule of Classes*, and in the *Summer Sessions Bulletin*.

COLLEGE DEGREE REQUIREMENTS

The BSN degree requires 120 semester hours. Any request for a course substitution or waiver, or modification in degree requirements and/or professional program admission requirements may be requested through a petition to the College of Nursing Standards Committee. For details, see an academic advisor.

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-BSN Degree Requirements," page 179.

BIO 201 Human Anatomy and Physiology I <i>SG</i>	4
BIO 202 Human Anatomy and Physiology II	4
CDE 232 Human Development <i>SB</i>	3
CHM 101 Introductory Chemistry <i>SQ</i>	4
ENG 101 First-Year Composition	3
ENG 102 First-Year Composition	3
HCR 210 Clinical Health Care Ethics <i>HU</i>	3
HCR 220 Health Care Organizations <i>H</i>	3
HCR 230 Culture and Health <i>C, G</i>	3
HCR 240 Human Pathophysiology	4
MIC 205 Microbiology <i>SG*</i>	3
MIC 206 Microbiology Laboratory <i>SG*</i>	1
NTR 241 Human Nutrition	3
PGS 101 Introduction to Psychology <i>SB</i>	3
PHI 103 Principles of Sound Reasoning <i>L/HU</i>	3
CS statistics elective	3
HU/SB elective	3
MA course	3
Total prerequisites	56

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

MAJOR REQUIREMENTS

The Nursing major requirements are completed after admission to the professional program. All practice courses are graded satisfactory/fail. RN students should refer to "RN-BSN Degree Requirements," page 179.

Nursing Core Courses

Junior Year

First Semester	
NUR 341 Theory I: Health Integrity	4
NUR 351 Pharmacology in Nursing	3
NUR 361 Professional Development	2
NUR 381 Nursing Practice I	7
Total	16

Second Semester	
NUR 342 Theory II: Health Integrity and Alterations.....	5
NUR 362 Professional Development II: Nursing Research L.....	3
NUR 382 Nursing Practice II	8
Total	16

Senior Year

First Semester	
NUR 441 Theory III: Health Integrity and Alterations	6
NUR 461 Professional Development III: The Art of Nursing HU.....	3
NUR 481 Nursing Practice III.....	7
Total	16

Second Semester	
NUR 442 Theory IV: Health Integrity and Alterations	3
NUR 443 Theory V: Leadership and Management	3
NUR 462 Professional Development IV	2
NUR 482 Nursing Practice IV.....	8
Total	16
Nursing core total.....	64

Each semester of courses is prerequisite to subsequent semesters. See an advisor for current program information.

RN-BSN DEGREE REQUIREMENTS

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 ¹	3
CHM 101 Introductory Chemistry SQ.....	4
ENG 101 First-Year Composition.....	3
ENG 102 First-Year Composition.....	3
HCR 240 Human Pathophysiology ¹	4
MIC 205 Microbiology SG ²	3
NTR 241 Human Nutrition	3
NUR 341 Theory I: Health Integrity ¹	4
NUR 342 Theory II: Health Integrity and Alterations ¹	5
NUR 351 Pharmacology in Nursing ¹	3
NUR 361 Professional Development ¹	2
NUR 381 Nursing Practice I ¹	7
NUR 382 Nursing Practice II ¹	8
PGS 101 Introduction to Psychology SB.....	3
C, H elective.....	3
CS statistics elective.....	3
HU elective	3
MA course.....	3
Total prerequisites.....	75

¹ For alternatives, see an advisor.
² Both MIC 205 and 206 must be taken to secure SG credit.

General Education Courses

Electives (upper division)	7
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G course (upper division).....	3
Total.....	10

Professional Nursing Courses for RNs. The following nursing courses are taught over a period of 12 months. Theory classes are held one day a week for six months. Practice and theory courses require a commitment of three days a week over the remaining six months.

NUR 364 Professional Development II: Nursing Research for RNs.....	3
NUR 391 Registered Nurse Mobility I: Professional Development L.....	3
NUR 392 Registered Nurse Mobility II: Health and Wellness.....	3
NUR 440 Theory III: Health Integrity and Alterations for RNs....	6
NUR 444 Theory IV: Health Integrity and Alterations for RNs....	3
NUR 445 Theory V: Leadership and Management for RNs	3
NUR 460 Professional Development III: The Art of Nursing for RNs.....	3
NUR 464 Professional Development IV for RNs.....	2
NUR 495 Community Health/Home Health Practice for RNs.....	4
NUR 496 Leadership and Management Practice for RNs.....	5
Total.....	35
General elective total.....	10
Nursing core (RN) total.....	45

The sequential progression of courses for the RN-BSN is as follows:

1. NUR 391
2. NUR 392
3. NUR 460
4. NUR 364
5. NUR 440
6. NUR 495
7. NUR 444
8. NUR 445
9. NUR 496
10. NUR 464

RNs interested in pursuing the RN-BSN-MS 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 (see "Retention and Academic Standards," page 86). 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" (2.00) in all prerequisite courses and earning a minimum GPA of 2.75 in prerequisite courses. In addition, a grade of "C" (2.00) or

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF NURSING

higher is required in all course work for the degree except in nursing practice courses where a designation of a "Y" (satisfactory) 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" (1.00) or "E" (0.00) (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," "E4," 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.

Withdrawal is in accordance with ASU withdrawal policy. 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 82, 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/or mental health necessary to function effectively in a clinical experience and/or classroom setting may be required to complete a health examination and have the results made available upon request to the College Standards Committee. Students whose health, behavior, and/or performance have been questioned may be 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 without making a personal appearance.

Professional Standards. Students are held to the professional standards reflected in the American Nurses' Association Code of Ethics for Nurses. Professional behavior and appearance are required during all nursing course activities.

Student Transportation. Students are responsible for their own transportation to and from health agencies and other selected experience settings, such as home visits to clients. Extensive travel may be required for selected clinical experiences.

Laboratory Fees. In several nursing laboratory and clinical practice 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 Nursing Learning Resource Center. Accordingly, students are assessed a fee for the following courses: NUR 341, 342, 381, 382, 441, 442, 481, 482, 495, and 496. Consult with an advisor for information on laboratory fees for Nursing courses. 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 junior year. Honors course work, consisting of at least 18 hours of upper-division honors credit, offers a challenging curriculum. Honors students are guided to complete honors credit in courses that complement their academic and career goals. Students interested in pursuing the Nursing Honors Program are encouraged to seek 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. Interested students should also call the Barrett Honors College at 480/965-4033.

The Academy for Continuing Education Program. The Continuing and Extended Education Program presents a variety of credit and noncredit offerings at ASU campuses, employer work sites, or electronically. These offerings are designed to assist practicing registered nurses and other healthcare professionals in maintaining and enriching their competencies, broadening their scientific knowledge base, and enhancing their skills in adapting to the changing health care environment. Programs are organized in response to both the health care needs of populations and the learning needs of nurses engaged in a variety of professional roles and clinical specialties.

For descriptions of continuing and extended education offerings, call the College of Nursing, at 480/965-7431 or access the program's Web site at nursing.asu.edu/ace.

Academic Nursing Centers. The College of Nursing administers three Academic Nursing Centers: Community Service Health Clinic in Scottsdale; Breaking the Cycle Community Healthcare in Phoenix; and Escalante Health Clinic in Tempe. Nurse practitioners provide primary care with an emphasis on promotion of wellness to families and individuals of all ages. The centers also serve as learning sites for both master's and baccalaureate nursing students.

For more information, access the centers' Web site at nursing.asu.edu/anc.

American Indian Students United for Nursing (ASUN). The ASUN project was established in the fall of 1990 through a grant from the Indian Health Service. The purpose of ASUN is to increase the number of Native Americans studying nursing at ASU and the number of nurses providing care to Native American communities. This is being accomplished through special recruitments and by providing programs to help the students successfully complete their studies in nursing. ASUN services include academic advising, tutoring, and computer access. General information is provided regarding American Indian student resources, periodic Pow Wows, Blessings, luncheons, and similar activities. For more information, call the ASUN office at 480/965-0123.

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. Advising appointments are available at various locations: the Downtown Phoenix campus, the Mayo campus, the Polytechnic campus, and West campus. Prospective students wanting more information on College of Nursing programs or wanting to schedule an advising appointment should contact the College of Nursing Student Services Office at 480/965-2987.

Scholarship and Financial Aid. For information on scholarships and loans, see "Financial Aid," page 59. Information about scholarship and loans 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 with a full range of simulated medical equipment and manikins, a complex care unit, and a health assessment lab at the Downtown campus, the Mayo campus, the Polytechnic campus, and West campus. The LRC materials include nursing course reference materials, selected nursing textbooks, nursing theses and applied projects, audiovisual equipment, media, models, and other visual aides. In the computer lab, computers with Microsoft Office Suite are available for nursing students, as well as a variety of computer software related to nursing and health care. Selected resources are available for checkout. The LRC is staffed to assist students during regular semester schedules. For more information, see the *Undergraduate Student Handbook*, available on the College of Nursing Web site at nursing.asu.edu/programs/undergraduate/handbook.htm.

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, and other agencies. The College of Nursing has contracts with more than 350 agencies to provide clinical and practice experience for students, operates

its own nurse-managed academic nursing centers in community settings, 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. GNO provides programs, information, and orientation services.

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 (STTI) was chartered at the College of Nursing in 1976. Membership in STTI is an honor conferred on undergraduate and graduate students who have demonstrated outstanding academic and professional achievement.

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

American Museum of Nursing. The American Museum of Nursing exhibits include apothecary dating from 1700, nurse uniforms, and patient care equipment from the 1800s

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF NURSING

to the present day. A library/archives houses nursing texts, journals, and books related to nursing. For more information, access the Web site at nursing.asu.edu/amon.

College of Nursing

nursing.asu.edu
480/965-3244

Professors: Fleury, Keller, Kommenich, Mattson, Melnyk, Schwartz

Associate Professors: Alpers, Baldwin, Bozzette, Brillhart, Cesarotti, Dirksen, Evans, Ismeurt, Killeen, Mays, McCarthy, Records, Ruiz, Sousa

Assistant Professors: Campesino, Chen, Cook, Cooke, McGrath, Pickens, Rosdahl, Shearer, Small

Clinical Professors: Bell, Schultz, Wojner-Alexandrov

Clinical Associate Professors: Adams, Armbruster, Davidson, Fargotstein, Fineout-Overholt, Hagler, Jasper, Kastenbaum, Link, Morris, Muzyka, Nuñez, Stillwell, White

Clinical Assistant Professors: Anderson, Benesh, Jarrell, Lersch, Lupone, Maxwell, Mitchell, Murray, Niesel, Peluso, Sayles, Sutter

COMMUNITY HEALTH PRACTICE (CHP)

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

HEALTH CARE RELATED (HCR)

D HCR 210 Clinical Health Care Ethics. (3)

fall, spring, summer

Health care ethics emphasizing analysis and ethical decision making at clinical and health policy levels for health care professionals.

General Studies: HU

D HCR 220 Health Care Organizations. (3)

fall, spring, summer

Overview of United States health care delivery systems; financing, health policy, basic principles of budgeting, cost-benefit analysis, and resource management. Cross-listed as HSM 220. Credit is allowed for only HCR 220 or HSM 220.

General Studies: H

D HCR 230 Culture and Health. (3)

fall, spring, summer

Cultures of diverse groups and health/illness. Cross-cultural communication, awareness of own cultural influences, indigenous and alternative healing practices.

General Studies: C, G

D HCR 240 Human Pathophysiology. (4)

fall, spring, summer

Chemical, biologic, biochemical, and psychological processes used in study of structural and functional alterations in health with selected therapeutics. Prerequisites: BIO 201 and 202 and MIC 205 and 206 (or their equivalents).

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

NURSING (NUR)

D NUR 314 Health Assessment for Registered Nurses. (3)

spring

Introductory knowledge and skills for systematic physical, psychosocial, and developmental nursing assessment over the life span. 2 hours lecture, 3 hours lab. Prerequisite: admission to graduate Nursing program.

D NUR 341 Theory I: Health Integrity. (4)

fall and spring

Concepts related to health integrity with focus on individual clients. Fee. Prerequisite: admission to professional Nursing program. Corequisite: NUR 381. Pre- or corequisites: NUR 351, 361.

D NUR 342 Theory II: Health Integrity and Alterations. (5)

fall, spring, summer

Concepts related to selected alterations in health integrity with focus on individuals, families, and groups. Fee. Prerequisite: Junior I courses. Corequisite: NUR 382. Pre- or corequisite: NUR 362.

D NUR 351 Pharmacology in Nursing. (3)

fall and spring

Foundations of pharmacological interventions. Prerequisite: admission to professional Nursing program.

D NUR 361 Professional Development. (2)

fall and spring

Introduces professional nursing roles and responsibilities. Prerequisite: admission to professional Nursing program.

D NUR 362 Professional Development II: Nursing Research. (3)

fall, spring, summer

Introduces concepts and issues in nursing research. Emphasizes quantitative and qualitative research processes, examination of nursing research literature. Prerequisite: Junior I or admission to RN-BSN program.

General Studies: L

D NUR 364 Professional Development II: Nursing Research for RNs. (3)

fall and spring

Introduces concepts and issues in nursing research. Emphasizes qualitative and quantitative research processes, examination of nursing research literature. Seminar, Internet hybrid. Prerequisites: NUR 391; licensed RN.

D NUR 381 Nursing Practice I. (7)

fall and spring

Applies 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. Corequisite: NUR 341. Pre- or corequisites: NUR 351, 361.

D NUR 382 Nursing Practice II. (8)

fall, spring, summer

Applies nursing process with selected individuals, families, and groups experiencing alterations in health integrity. Lab, clinical experience. Fee. Prerequisite: Junior I. Corequisite: NUR 342. Pre- or corequisite: NUR 362.

D NUR 391 Registered Nurse Mobility I: Professional Development. (3)

fall and spring

Historical, philosophical, and theoretical bases for professional nursing practice. Enhancement of critical inquiry skills through exploration of selected issues. Prerequisite: admission to RN-BSN program.

General Studies: L

D NUR 392 Registered Nurse Mobility II: Health and Wellness. (3)

fall and spring

Concepts of health integrity and community-based practice and professional nursing roles.

D NUR 394 Special Topics. (1-4)

selected semesters

Topics may include the following:

- International Community/Public Health Nursing. (3-4)

summer

Theoretical and clinical application of community assessment, intervention, health education program planning, and culturally competent nursing care. Lecture, discussion, clinical, seminar. Credit is allowed for only NUR 394 or 598 ST: International Community/Public Health Nursing. Prerequisites: both graduate

student in an approved nursing graduate program and RN licensure (US) or only RN licensure (US); 2 completed clinical semesters of Nursing major in an approved BSN or ADN program.

D NUR 440 Theory III: Health Integrity and Alterations for RNs. (6)
spring and summer

Concepts related to health integrity and alterations with focus on individuals, families, groups, aggregates, and communities. Prerequisite for RNs: NUR 392.

D NUR 441 Theory III: Health Integrity and Alterations. (6)
fall, spring, summer

Concepts related to health integrity and alterations with focus on individuals, families, groups, aggregates, and communities. Fee. Prerequisite: Junior II. Corequisite: NUR 481. Pre- or corequisite: NUR 461.

D NUR 442 Theory IV: Health Integrity and Alterations. (3)
fall, spring, summer

Advanced concepts related to health integrity and alterations in that integrity, with focus on selected client populations. Fee. Prerequisite: Senior I. Corequisites: NUR 443, 482. Pre- or corequisite: NUR 462.

D NUR 443 Theory V: Leadership and Management. (3)
fall, spring, summer

Selected theories and concepts of organizations, management, leadership with focus on nursing management and leadership in health care organizations. Prerequisite: Senior I. Corequisites: NUR 442, 482. Pre- or corequisite: NUR 462.

D NUR 444 Theory IV: Health Integrity and Alterations for RNs. (3)
fall, spring, summer

Advanced concepts related to health integrity and alterations in that integrity, with focus on selected client populations. Prerequisite: NUR 364.

D NUR 445 Theory V: Leadership and Management for RNs. (3)
fall and summer

Selected theories and concepts of organizations, management, leadership with focus on selected client populations for experienced RNs. Prerequisite: NUR 364.

D NUR 452 Nursing of Children with Developmental Disabilities. (3)
summer

Congenital and acquired physical and mental developmental disorders, including the evaluation of child and family and community resources. Prerequisite: RN license.

D NUR 460 Professional Development III: The Art of Nursing for RNs. (3)
fall and spring

Explores the aesthetic, ethical, and personal patterns of knowing in nursing for the practicing RN. Pre- or corequisite: NUR 391.

D NUR 461 Professional Development III: The Art of Nursing. (3)
fall, spring, summer

Explores the aesthetic, ethical, and personal patterns of knowing in nursing. Prerequisite: Junior II or admission to RN-BSN program. *General Studies: HU*

D NUR 462 Professional Development IV. (2)
fall, spring, summer

Focuses on role transition to professional nursing. Prerequisite: Senior I.

D NUR 464 Professional Development IV for RNs. (2)
fall and summer

Capstone professional development course for the RN student. Prerequisite: NUR 460.

D NUR 481 Nursing Practice III. (7)
fall, spring, summer

Applies concepts and clinical practice related to health integrity and alterations with focus on individuals, families, groups, aggregates, and communities. Lab, clinical experiences. Fee. Prerequisite: Junior II. Corequisite: NUR 441. Pre- or corequisite: NUR 461.

D NUR 482 Nursing Practice IV. (8)
fall and spring

Capstone course with focus on synthesis and application of patterns of knowing and leadership, management concepts in collaborative nursing practice. Lab, clinical experiences. Fee. Prerequisite: Senior I. Corequisites: NUR 442, 443. Pre- or corequisite: NUR 462.



A nursing student listens to the heartbeat of a child at the Community Services Health Clinic.

Dave Tevis photo.

D NUR 494 Special Topics. (1–4)

fall, 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.

D NUR 495 Community Health/Home Health Practice for RNs. (4)
spring and summer

Theoretical content related to community and home health care. Clinical practice with individual, family aggregates. 1 hour lecture, 3 hours lab. Fee. Pre- or corequisite: NUR 440.

D NUR 496 Leadership and Management Practice for RNs. (5)
fall and summer

Capstone leadership and management experience for the RN student that utilizes patterns of knowing in nursing practice. Clinical lab. Fee. Pre- or corequisite: NUR 443.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

College of Public Programs

copp.asu.edu

Debra Friedman, PhD, Dean

Community Resources and Development, School of	189
Public Affairs, School of	192
Social Work, School of	193

PURPOSE

The College of Public Programs offers students rare opportunities to study and advance social work, public administration, nonprofit leadership and management, community resources for recreation planning, and tourism policy and planning. The college prepares students for rewarding careers in government, nonprofit agencies, politics, social services, public administration and public management, education, business and industry, and international service.

Established in 1979, the college is the home of the School of Community Resources and Development, School of Public Affairs, and School of Social Work. The college was established to bring together academic disciplines that have a focus on community and a concern for relevance in education and scholarly potential. Professional degree and certificate programs incorporate the spirit of leadership, scholarship, and professionalism.

Students in the college are able to leverage the location of the university to address urban issues, cultural diversity, globalization, and shifting demographics. Academic programs integrate professional training, social science research, community engagement, and the latest social theories. Highly qualified faculty are committed to improving institutions' and individuals' capacities to address critical public issues of an urbanized, advanced, and diverse society emphasizing local, national, and global concerns. Academic and student support staff are responsive to student needs and are committed to providing comprehensive student support services to ensure student success.

The College of Public Programs is committed to excellence in instruction, innovative research, and public service and provides transdisciplinary academic degrees and certificates that recognize civic responsibility, leadership, diversity, and human potential.

ORGANIZATION

The college is composed of three academic units, each administered by a director:

- School of Community Resources and Development
- School of Public Affairs
- School of Social Work

The college administers these centers and institutes:

- Advanced Public Executive Program
- Center for Nonprofit Leadership and Management
- Center for Urban Inquiry
- Morrison Institute for Public Policy
- Southwest Interdisciplinary Research Center

The general administration of the college is the responsibility of the dean, who is responsible to the executive vice president and provost. For more information, access the college's Web site at copp.asu.edu.

ADMISSION

Freshmen and Transfers. Individuals interested in admission to an undergraduate program in the College of Public Programs should refer to "Undergraduate Admission," page 66. Students who meet the minimum university admission requirements are admitted to the appropriate undergraduate academic unit of the college as a preprofessional.

Professional Status Admission Requirements. Entry to any undergraduate academic unit of the college with professional status requires the completion of

1. 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 89); and
3. the College of Public Programs writing competence, communication, and computer requirements (see "College Degree Requirements," page 186).

The academic units may also have additional requirements.

Most upper-division courses in the college are not open to preprofessional students. Preprofessionals should check the catalog information in their major fields to determine any course enrollment restrictions. Students should refer to this catalog and advising documents for specialized departmental retention and/or continued enrollment requirements 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.

College of Public Programs Baccalaureate Degrees and Majors

Major	Degree	Concentration*	Administered By
Recreation	BS	Recreation management or tourism management	School of Community Resources and Development
Social Work	BSW	—	School of Social Work

* If a major offers concentrations, one must be selected unless noted as *optional*.

Successful completion is defined for purpose of transfer as having received a grade comparable to an “A” (4.00), “B” (3.00), or “C” (2.00) 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 and the college.

ADVISING

The mission of 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 about advising should be directed to the student’s academic advisor or to the College of Public Programs Student Services Office, WILSN 203.

Mandatory Advising. The following categories of students are required to receive advising and to be cleared on the Mandatory Advising Computer System before they may register for classes:

1. 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 for overload are not ordinarily approved for students who have a cumulative GPA less than 3.00 and who

do not state valid reasons for the need to register for the credits. Students who register for semester hours in excess of 18 and do not have an approved overload petition on file may 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

Successful completion of a four-year program of 120 semester hours is specified by the respective academic unit within the College of Public Programs. See “College of Public Programs Baccalaureate Degrees and Majors” table, on this page.

GRADUATE PROGRAMS

Master’s degree programs are offered by the three academic units of the College of Public Programs, and two of the units offer doctoral degrees. See the “College of Public Programs Graduate Degrees and Majors” table, page 186.

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

SCHOOL OF EXTENDED EDUCATION

The university-wide School of Extended Education provides an interactive link between ASU and the diverse communities it serves. The college assesses lifelong learning requirements and works in partnership with campuses, other colleges, and the community to serve learners, using a network of locations, programs, schedules, and technologies.

For more information, see “School of Extended Education,” page 134, 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” (2.00) 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” (2.00) in any of the courses, it must be repeated until the specified proficiency is demonstrated. Composition courses transferred from

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See “General Studies,” page 93.

COLLEGE OF PUBLIC PROGRAMS

College of Public Programs Graduate Degrees and Majors

Major	Degree	Concentration*	Administered By
Public Administration	MPA	Optional: nonprofit administration*	School of Public Affairs
	PhD	—	School of Public Affairs
Recreation	MS	—	School of Community Resources and Development
Social Work	MSW	Advanced direct practice or planning, administration, and community practice	School of Social Work
	PhD	—	School of Social Work

* If a major offers concentrations, one must be selected unless noted as *optional*.

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 93, and the current *Schedule of Classes*.

General Studies courses are also identified following course descriptions according to the "Key to General Studies Credit Abbreviations," page 95.

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

Undergraduate students in the College of Public Programs are required to take a course in communication that provides an overview of human communication in public and/or cultural contexts and helps students develop oral presentation skills and competence. Students majoring in Social Work choose from the following courses:

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

Majors in the School of Community Resources and Development choose from 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 School of Social Work requires proficiency in 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:

ENG 215 Strategies of Academic Writing <i>L</i>	3
ENG 216 Persuasive Writing on Public Issues <i>L</i>	3
ENG 217 Writing Reflective Essays <i>L</i>	3
ENG 218 Writing About Literature <i>L/HU</i>	3
ENG 301 Writing for the Professions <i>L</i>	3
JMC 201 Journalism Newswriting <i>L</i>	3
JMC 202 Radio-Television Writing <i>L</i>	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.

PREPROFESSIONAL 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 Division of Graduate Studies 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 standing (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. Students in the College of Public Programs are considered to be in good standing for the purpose of retention if they maintain a cumulative GPA of 2.00 or higher in all courses taken at ASU. However, to achieve professional 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 is placed on academic probation. A student on academic probation is required to observe any limitations or rules the college may impose as a condition for retention.

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

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

Reinstatement. Students seeking reinstatement after disqualification should contact the College of Public Programs 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 University Registrar.

All academic disciplinary action is the function of the College of Public Programs 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.

SPECIAL PROGRAMS

Barrett Honors College

The College of Public Programs cooperates with the Barrett Honors College, which affords superior undergraduates opportunities for interdisciplinary seminars and special topic courses taught by selected faculty. Honors students receive supplemental advising, priority preregistration, and complete a senior honors thesis. Participating students can major in any academic program. A full description of the requirements and the opportunities offered by the Barrett Honors College can be found in "The Barrett Honors College," page 145.

For more information, visit the College of Public Programs Student Services Office at WILSN 203, or call 480/965-1034. For more information about the Barrett Honors College, call 480/965-2359, or access the Web site at honors.asu.edu.

Certificate in Lesbian, Gay, Bisexual, and Transgender Studies

The undergraduate certificate in Lesbian, Gay, Bisexual, and Transgender Studies is offered by the Committee on

Lesbian, Gay, Bisexual, and Transgender Studies, administered through the College of Public Programs.

Lesbians, gay men, bisexuals, and transgendered (LGBT) people play important roles as colleagues, clients, parents, children, siblings, neighbors, employees and employers, religious leaders, and friends. Given the increasing visibility and changing political climate for LGBT people in the United States, all students—not only those who identify themselves as gay, lesbian, bisexual, or transgender—are served well by learning about the histories, communities, and contemporary social issues regarding people from LGBT backgrounds. The educational experience is enhanced when students are introduced to complex intersections between and among sexual, racial, ethnic, religious, geographic, and national identities. The philosophy of this certificate program is to promote intellectual and pedagogical diversity as one of the university's greatest assets, in part by instilling in students sensitivity to cultures different from their own, but also through careful analysis of the self in historical, artistic, and sociocultural contexts.

The goals of the certificate program are to give students knowledge about specific lesbian, gay, bisexual, and transgendered communities; knowledge about the history and maintenance of the category, "lesbians and gay men"; theoretical perspectives on "heterosexuality" as a presumptive sexual identity; an understanding of Lesbian, Gay, Bisexual, and Transgender Studies as an academic area of inquiry; an understanding of community politics, dynamics, and conflicts; use-inspired education that culminates in a public presentation; and practical experience in utilizing course work knowledge in the community through an internship or community service project.

For information on the faculty and certificate requirements, access the Web site at copp.asu.edu.

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, graduate students, faculty, and staff. As the official representative student organization to the dean and college administration, the council appoints student members to faculty committees, cosponsors events with the college alumni association, and represents students at college and university functions.

Center for Nonprofit Leadership and Management

The Center for Nonprofit Leadership and Management (CNLM) promotes the understanding of the nonprofit sector in community life and focuses on effective practices that help organizations meet their mission. The center coordinates a nonprofit sector research program, facilitates educational offerings in nonprofit studies, and serves as a convener on contemporary issues. CNLM provides information and selected technical assistance services pertaining to such topical concerns as philanthropy, effective board

L literacy and critical inquiry / MA mathematics / CS computer/statistics/quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF PUBLIC PROGRAMS

governance, and social enterprise. The center facilitates relationships among students, faculty, and community organizations across the range of its research and outreach activities. In addition, the center convenes leaders and managers from the nonprofit, business, and government sectors on issues pertinent to building nonprofit capacity in the region. CNLM is the leading nonprofit academic center in the region. It is nationally recognized for its knowledge and tools that support leader and manager effectiveness. The center supports the activities of three complementary nonprofit education programs at ASU; the American Humanities Program (undergraduate certificate), a postbaccalaureate program (graduate certificate program in Nonprofit Leadership and Management), and a professional development education program (through the Nonprofit Management Institute). For more information, call 480/965-0607, or access the Web site at nonprofit.asu.edu.

Center for Urban Inquiry

The mission of the Center for Urban Inquiry (CUI) is threefold: critical social science research, community engagement, and innovative education. The research agenda prioritizes the scrutiny of economic and social privilege and disadvantage. Specific research requests from policymakers, nonprofit and government agencies, and citizen groups are also considered. This includes a rapid response community research initiative established to provide intensive feedback to community research requests that must be completed within a limited time frame, as well as long-term process and outcome evaluations of programs and policies in the private and public sectors. CUI also facilitates collaborative research efforts among faculty, research professionals, and students. Such research includes an examination of the individual and collective costs of poverty in the Southwest and the design of comprehensive research to explore the extent and nature of racial profiling among agents of social control.

The center's direct community involvement ranges from the local to the global. This includes support of neighborhood groups advocating for homeowners and renters within the context of urban development and displacement, the creation of a hospital-based community partnership to combat youth violence, and participation in United Nations summits on sustainable development and indigenous peoples' rights. The center serves the university and community through innovative educational endeavors, including a distance-learning college program for incarcerated women, in-depth research training for graduate and undergraduate students, and courses in service learning, community action research, and international urban issues. CUI also serves as the administrative and programmatic home for the needs-based Nina Mason Pulliam Legacy Scholars Program for nontraditional students.

For more information, call 480/965-9216, access the center's Web site at www.asu.edu/copp/urban, or write

CENTER FOR URBAN INQUIRY
ARIZONA STATE UNIVERSITY
PO BOX 874603
TEMPE AZ 85287-4603

Southwest Interdisciplinary Research Center

The Southwest Interdisciplinary Research Center (SIRC) conducts multidisciplinary, community-based research on health disparities among the populations of the Southwest, concerning drug abuse, HIV/AIDS, and mental health. Research efforts focus on the needs and strengths of families and youth from diverse communities, and strive to foster a stronger link between practice and research in the social work and service delivery fields. The research center's goal is to develop a comprehensive interdisciplinary center for culturally oriented research on drug abuse and other health outcomes that will strengthen the university's capacity as a leader in the Southwest region, nationally, and internationally.

SIRC strengthens the institutional infrastructure of the School of Social Work, enhances the research capabilities of faculty and community social workers, and draws across many disciplines to create dynamic research partnerships. The center's research affiliates include faculty from nursing, psychology, social work, sociology, and other departments. SIRC is funded through competitive research grants and subcontracts awarded by the National Institute on Drug Abuse, the National Institutes of Health, the Centers for Disease Control and Prevention, and by ASU.

The mission of SIRC is to carry out interdisciplinary research in health disparities with populations of the Southwest, and increase the number and capacity of social work researchers working in the areas of substance abuse, HIV/AIDS, and mental health. The center's multidisciplinary and community-based research in these priority areas focuses on culturally-grounded prevention research, and culturally responsive and resiliency-focused services research.

SIRC studies the strengths, competencies, and other protective factors that buffer against drug use and risk behaviors of families and youth. Research focuses on the diverse cultural communities of the Southwest and the way that drug use, HIV/AIDS, and mental health are connected to ethnic, gender, developmental, geographic, and other social identity variables.

SIRC provides predoctoral applied research education to graduate students from social work, sociology, and other departments. In addition, SIRC provides continuing education and research dissemination activities in association with its community advisory board members and partners.

For more information, call 480/965-4699, access the center's Web site at sirc.asu.edu, or write

SOUTHWEST INTERDISCIPLINARY RESEARCH
CENTER
ARIZONA STATE UNIVERSITY
PO BOX 873711
TEMPE AZ 85287-3711

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)

D CPP 194 Special Topics. (1-4)
selected semesters

D CPP 294 Special Topics. (1–4)

selected semesters

D CPP 394 Special Topics. (1–4)

selected semesters

D CPP 484 Internship. (1–12)

selected semesters

D CPP 494 Special Topics. (1–4)

selected semesters

D CPP 498 Pro-Seminar. (1–7)

selected semesters

D CPP 499 Individualized Instruction. (1–3)

selected semesters

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

School of Community Resources and Development

scrd.asu.edu

480/965-7291

AG 281

Randy J. Virden, Director

Professors: Allison, Tyrrell, Yoshioka

Associate Professors: Ashcraft, Teye, Timothy, Virden

Assistant Professors: Brown, Budruk, Guo, Jones, Nyaupane, White

Lecturers: Barry, Ramella

RECREATION—BS

The School of Community Resources and Development is dedicated to improving the economic, environmental, social, and cultural well-being of communities (local, regional, and global) through research, discovery, instruction, and professional service.

The BS degree program in the School of Community Resources and Development is focused on three general areas of study: parks and recreation management; tourism development and management; and nonprofit leadership and management. It is a professional program that exposes students fully to community resource-related issues, including amenity service delivery, philanthropy, natural and cultural resources, human behavior and development, development issues (social, economic, and environmental), and public policy.

This interdisciplinary program is designed to provide the student with competencies necessary for employment in management and program delivery positions in diverse public, nonprofit, and private organizations such as community service departments, municipal and county park and recreation departments, state and national natural resource agencies, YMCAs, Boys and Girls Clubs of America, the United Way and other nonprofit organizations, clinical rehabilitation centers, hospitals, visitor and convention bureaus,

senior centers, resorts, destination management companies, and other components of the tourism/commercial recreation industry.

Concentrations

Students may select from two concentrations:

(1) recreation management and (2) tourism management.

Recreation Management. Students pursuing the recreation management concentration can further specialize in therapeutic recreation, community and urban recreation, natural resource recreation, or nonprofit youth and human service leadership and management (American Humanics). In addition to the 34 semester hours of major core classes, these areas of study consist of from 15 to 18 semester hours of recreation-related courses and from 12 to 19 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 program is the only one of its kind in a growing field in Arizona.

Tourism Management. The tourism management concentration consists of 34 semester hours of major core courses, 12 semester hours of tourism-related requirements, nine semester hours of tourism options, and nine semester hours of nonmajor related course work.

SCHOOL MAJOR REQUIREMENTS

Students may declare Recreation as their major but cannot register for upper-division core classes without *professional status*. To be officially admitted with *professional status* to the BS degree program in Recreation, students must

1. meet the College of Public Programs preprofessional status admission requirements (see "Admission," page 184);
2. complete REC 120 and 210 with a grade of "C" (2.00) or higher; and
3. complete either COM 225, 241, or 259.

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 BS 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.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF PUBLIC PROGRAMS

PROGRAM REQUIREMENTS

The 64- to 68-semester-hour BS degree in Recreation includes 34 semester hours of major core courses.

Recreation Major Core Courses

REC 120 Leisure and the Quality of Life <i>SB</i>	3
REC 210 Community Resources and Services	3
REC 330 Programming of Recreation Services <i>L</i>	3
REC 364 Foundations of Therapeutic Recreation	3
REC 440 Recreation Areas and Facilities Development and Management	3
REC 462 Management of Recreation and Tourism Services	3
REC 463 Senior Internship	12
REC 482 Assessment and Evaluation of Recreation Services	3
REC 494 ST: Preinternship Workshop	1
Total	34

REC 330, 440, 462, and 482 require *professional status* and must be taken in the proper sequence. NLM 463 and REC 463 are the department's capstone courses. Two hundred hours of professional leadership experience are required before enrollment in NLM 463 or REC 463. Students are not permitted to take additional course work during their senior internship placement period. Approval of internships for Tempe campus students must be received from the School of Community Resources and Development office.

A student must attain a grade of "C" (2.00) or higher in all courses within the major, including the related area. Specific courses that may be used to fulfill the related requirements, the related areas, and the directed elective course work are listed on check sheets available in the department office and on the Web at scrd.asu.edu.

MINORS

The school offers two minors: (1) Recreation Management and (2) Tourism. The minor in Recreation Management consists of REC 120 Leisure and the Quality of Life, REC 160 Leisure and Society, and 12 additional semester hours of approved course work, including 12 semester hours at the upper-division level, from Tempe campus. The Tourism minor consists of REC 120 Leisure and the Quality of Life, REC 305 Introduction to Travel and Tourism, and nine additional semester hours of upper-division approved courses from Tempe campus.

BIS CONCENTRATIONS

Concentrations in recreation management, tourism, and nonprofit youth and human service leadership and management are available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Students in the BIS degree program may choose either recreation management or tourism management as one of their two concentrations, but not both.

Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 139.

CERTIFICATE PROGRAM

Nonprofit Youth and Human Service Leadership and Management: American Humanics Certificate Program. The certificate program in American Humanics provides 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 a number of nonprofit organizations, including American Red Cross, Big Brothers/Big Sisters, Boys and Girls Clubs, Boy Scouts, Camp Fire USA, Girl Scouts, Habitat for Humanity, Junior Achievement, the United Way, and YMCA.

This program features an academic and experiential approach that highlights the unique issues of nonprofit organization management, with a particular emphasis on 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.

NLM 220 Introduction to Nonprofit Organizations	3
NLM 300 Fund Raising and Resource Development	3
NLM 310 Volunteer Management	3
NLM 320 Professional Development Seminar*	4
NLM 420 American Humanics Institute	2
NLM 430 Managing Nonprofit Organizations	3
NLM 463 Senior Internship	12
Minimum total	30

* NLM 320 is taken four semesters, for one semester hour each term.

GRADUATE PROGRAM

MS Degree in Recreation. The curriculum for the MS degree in Recreation is designed to help students achieve both academic and professional goals. Areas of study include natural resource recreation, recreation administration, social/psychological aspects of leisure, and tourism and commercial recreation. Each student may complete a thesis or professional option. Information on the MS degree in Recreation is detailed in the *Graduate Catalog*.

NONPROFIT LEADERSHIP AND MANAGEMENT (NLM)

D NLM 191 First-Year Seminar. (1-3)

selected semesters

Topics may include the following:

- Art History Professional Program

D NLM 220 Introduction to Nonprofit Organizations. (3)

fall and spring

Introduces the nonprofit sector and its role in developing the cultural, economic, and social impact in U.S. society.

D NLM 235 Service Learning for Community Development. (3)

spring

Applies youth and adult development theories through community service immersion in collaboration with local nonprofit partners. Case studies, small group discussion.

D NLM 300 Fund Raising and Resource Development. (3)

fall

Theory and practice of philanthropy, resource acquisition methods through ethical fund raising, and earned income approaches for nonprofit organizations.

SCHOOL OF COMMUNITY RESOURCES AND DEVELOPMENT

D NLM 310 Volunteer Management. (3)

spring

Administration of volunteer service programs. Studies and analyzes the volunteer personnel process. Cross-listed as REC 310. Credit is allowed for only NLM 310 or REC 310.

D NLM 320 Professional Development Seminar. (1)

fall and spring

Professional seminar featuring nonprofit executives; variable topics on leadership and management concerns. Forum for exchange between students and professionals. May be repeated for credit. Prerequisite: instructor approval.

D NLM 420 American Humanics Institute. (1–2)

fall

National Management Institute for preparation of nonprofit professionals. Requires out-of-state conference. May be repeated for credit. Prerequisite: instructor approval.

D NLM 430 Managing Nonprofit Organizations. (3)

spring

Analyzes administrative structures, decision making, and program delivery within nonprofit organizations. Prerequisites: NLM 220; senior standing.

D NLM 463 Senior Internship. (6 or 12)

fall, spring, summer

Supervised guided experience in selected agencies. May be repeated for credit. Cross-listed as REC 463. Credit is allowed for only NLM 463 or REC 463. Fee. Prerequisites: REC 440, 462, 482; Recreation major; senior standing.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

RECREATION MANAGEMENT AND TOURISM (REC)

D REC 120 Leisure and the Quality of Life. (3)

fall, spring, summer

Conceptual foundations for understanding the role of leisure in the quality of life. Social, historical, psychological, cultural, economic, and political foundations of play, recreation, and leisure.

General Studies: SB

D REC 150 Outdoor Pursuits. (3)

summer

Theories and practical applications related to outdoor recreation pursuits. Interdisciplinary approach to wilderness issues and philosophies, culminating in an outdoor experience. Field trips.

D 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

D REC 210 Community Resources and Services. (3)

fall and spring

Introduces the system of public, nonprofit, and private sector resources and services comprising contemporary communities. Organized into three modular units with emphasis on the delivery of services in the parks and recreation, tourism, and nonprofit professions. Prerequisite: Recreation major. Pre- or corequisite: REC 120.

D 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

D REC 310 Volunteer Management. (3)

spring

Administration of volunteer service programs. Studies and analyzes the volunteer personnel process. Cross-listed as NLM 310. Credit is allowed for only NLM 310 or REC 310.

D REC 315 Community Recreation Systems. (3)

fall

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

D REC 325 Tourism Accommodations. (3)

fall

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

D REC 330 Programming of Recreation Services. (3)

fall and spring

Foundations for effective program planning in varied leisure delivery systems. Prerequisite: Recreation professional status.

General Studies: L

D REC 340 Outdoor Survival. (3)

fall

Interdisciplinary approach to outdoor survival, including attitudes, psychological stress, physiological stress, preparation, hypothermia, navigation, flora, and wildlife. Field trips.

D REC 345 Meeting and Convention Planning. (3)

fall

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

D REC 350 Tourism Marketing. (3)

fall and spring

Critical examination of marketing principles; applications to travel, tourism, and related industries in diverse settings, including local, national, and international. Corequisite: REC 305.

D REC 364 Foundations of Therapeutic Recreation. (3)

fall and spring

Introduces special recreation and therapeutic recreation services for persons with disabilities. Offers both a community and clinical perspective on specialized services. Prerequisite: Recreation major or minor.

D REC 370 Natural Resource Recreation Planning and Management. (3)

fall

Comprehensive introduction into theory, processes, and techniques for managing natural resource recreation with an emphasis on the public sector.

D REC 372 Tourism Planning. (3)

fall and spring

Applies economic and regional development concepts and theories to destination product development. Prerequisite: REC 305.

D 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

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

fall

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

D REC 401 Program Design and Evaluation in Therapeutic Recreation. (3)

spring

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

D REC 415 Tourism Transportation Systems. (3)

spring

Examines the role of various modes of transportation in domestic and international tourism development. Prerequisite: REC 305.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF PUBLIC PROGRAMS

D REC 440 Recreation Areas and Facilities Development and Management

once a year
 Surveys development and management of public, private, and commercial recreation areas and facilities with a focus on meeting program needs. Prerequisite: Recreation professional status.

D REC 458 International Tourism. (3)

fall and spring
 Global examination of international tourism and its significance as a vehicle for social and economic development.
General Studies: G

D REC 460 Clinical Issues in Therapeutic Recreation. (3)

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

D REC 462 Management of Recreation and Tourism Services. (3)

fall and spring
 Basic principles of administration and their application in successful administrative situations. Analyzes administrative function, structure, and policies. Prerequisites: REC 330; Recreation professional status.

D REC 463 Senior Internship. (6 or 12)

fall, spring, summer
 Supervised guided experience in selected agencies. May be repeated for credit. Cross-listed as NLM 463. Credit is allowed for only REC 463 or NLM 463. Fee. Prerequisites: REC 440, 462, 482; Recreation major; senior standing.

D REC 470 Environmental Interpretation and Education. (3)

spring
 Introduces park interpretation and environmental education that includes theories, principles, and techniques. Prerequisite: REC 370.

D REC 480 Natural Resource Tourism. (3)

spring
 Examines the interaction of tourism with culture, natural environment, as well as the impacts of tourism on the environment.

D REC 482 Assessment and Evaluation of Recreation Services. (3)

fall and spring
 Introduces applied leisure research with emphasis on program evaluation, research design, data collection techniques, and data analysis. Prerequisites: REC 330; Recreation professional status.

D REC 494 Special Topics. (1-3)

fall and spring
 Special topics selected by department faculty. Topics may include the following:
 • Preinternship Workshop. (1)

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

School of Public Affairs

spa.asu.edu
 480/965-3926
 WILSN 208

Robert Denhardt, Director

Professors: Cayer, Chapman, Coor, Crow, J. Denhardt, R. Denhardt, Friedman, Hall, Lan, Perry

Associate Professors: Campbell, McCabe

Assistant Professors: Al-Yahya, Catlaw, Corley, Peck, Voorhees

Professor of Practice: Vanacour

CERTIFICATE IN LEADERSHIP AND ETHICS

The School of Public Affairs, in conjunction with the Lincoln Center for Applied Ethics, offers a 15-semester-hour Leadership and Ethics Certificate program. The certificate prepares students for positions of leadership and responsibility in the university, in their communities, and throughout their careers in business, government, and society. Students explore the relationship between leadership and the capacity for individuals to assume responsibility for their actions and to act with a sense of ethics and integrity. The program provides students with an understanding of change processes as they affect individuals, groups, and organizations throughout society, so that students might better learn to cope with and direct change in positive and beneficial ways.

PAF 494 ST: Building Leadership Skills	3
PAF 494 ST: Leadership and Ethics.....	3
PAF 494 ST: Leadership and Change	3
PAF 494 ST: Leadership Capstone	3
Elective.....	3
Total.....	15

CERTIFICATE IN PUBLIC ADMINISTRATION AND PUBLIC MANAGEMENT

The School of Public Affairs offers a 15-semester-hour Public Administration and Public Management Certificate program. The certificate prepares students for leadership positions and careers in governmental agencies and non-profit associations. To meet certificate requirements, students take four core courses and one elective course. The list of approved electives may be obtained by visiting the School of Public Affairs Student Services Office in WILSN 211, or by calling 480/965-1037.

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

BIS CONCENTRATION

A concentration in public administration is available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 139.

GRADUATE DEGREES

The school also offers a 42-semester-hour professional Master of Public Administration degree, a 42-semester-hour Master of Public Policy 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)

D 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.

D PAF 340 Public Management and Policy. (3)

fall and spring

Develops conceptual, critical, and practical understanding of policy, the policy process, and policy analysis.

D PAF 401 Statistics. (3)

fall and spring

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

D 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 abilities for effective leadership.

D 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.

D PAF 494 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Building Leadership Skills
- Leadership and Change
- Leadership and Ethics
- Leadership Capstone

D PAF 498 Pro-Seminar. (3)

selected semesters

Small group and study for advanced students in the field of public administration. May be repeated for credit for a total of 6 hours.

Prerequisites: minimum 2.00 GPA; school approval.

D PAF 499 Individualized Instruction. (1–3)

fall, spring, summer

Original study or investigation in public administration and public management under the supervision of a faculty member. May be repeated for credit for a total of 6 hours. Prerequisites: minimum 3.00 GPA; school approval.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

School of Social Work

sww.asu.edu

480/965-6081

WHALL 135

Leslie Leighninger, Director

Professors: Ashford, LeCroy, Leighninger, MacEachron, Marsiglia, Martinez-Brawley, Moroney, Segal

Associate Professors: Bruzy, Gerdes, Gustavsson, Krysik, Montero, Napoli, Nichols, Paz, Riskey-Curtiss, Robles, Steiner, Stromwall, Waller

Assistant Professors: Bacchus, Holley, Kang, Larson, Niles, Roe-Sepowitz

Senior Instructional Professional: Gonzalez-Santin

Assistant Administrative Professional: Knutson-Woods

PURPOSE

The School of Social Work prepares 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 to train professional social workers for beginning-level generalist practice (BSW) and for advanced direct practice and planning, administrative, and community practice (MSW). 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, issues of specific importance to Latino and indigenous peoples, poverty, human services planning, and many others.

ORGANIZATION

The School of Social Work is organized around three program areas:

1. Bachelor of Social Work (BSW);

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF PUBLIC PROGRAMS



The Agriculture Building is located on the Tempe campus between the Memorial Union and the Student Services Building.

Tim Trumble photo

2. Master of Social Work (MSW); and
3. Doctor of Philosophy (PhD with a major in Social Work).

The MSW program has two areas of concentration: (1) advanced direct practice (ADP) and (2) planning, administration, and community practice (PAC).

The BSW and MSW degrees are offered at Tempe campus and at the Tucson component; the PhD degree is offered at Tempe campus.

For more information regarding the master's and PhD programs, see the *Graduate Catalog*.

ADMISSION

Bachelor of Social Work

Preprofessional Status. Students who have declared Social Work as their major or have transferred from other universities or community colleges are admitted to ASU and the School of Social Work with preprofessional status. Transfer students should follow the procedure outlined under "Office of Undergraduate Admissions," page 65.

Applying for Professional Program Status. Students who have completed 56 or more semester hours and have taken

SWU 171 Introduction to Social Work, SWU 291 Social Service Delivery Systems, SWU 295 Foundations of Social Work Practice, SWU 301 Human Behavior in the Social Environment I, and SWU 310 Social Work Practice I are eligible to apply for professional program status.

Students may obtain an application packet at the School of Social Work, Academic Services, WHALL 135, or request that one be mailed to their home address by calling 480/965-6081.

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 BSW program coordinator to discuss the decision and to obtain guidance in the development of future plans.

Criteria for Professional Program Status. Admission to professional program status is 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 171, 291, 295, 301, and 310) and a grade of "C" (2.00) 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 preprofessional status, 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.
6. The College of Public Programs professional program status admissions requirements outlined under "Professional Status Admission Requirements," page 184, must be fulfilled.

Leave of Absence. Occasionally, for health or personal reasons, Social Work students who have achieved professional program status 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 BSW program coordinator. A student may request a leave of absence from the Social Work program for a period of one year. Failure to request a leave of absence results in removal from the professional program. (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.

Readmission. Undergraduate students 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 80. Students who were previously admitted to the professional program may, in addition, be required to reapply for professional status.

Transfer Students. The university standards for evaluation of transfer credit are listed under "Transfer Credit," page 71. Community college students planning to transfer at the end of their first or second year should plan their community college courses to meet the requirements of the ASU curriculum selected. Students attending Arizona community colleges are permitted to follow the degree requirements specified in the ASU catalog in effect at the time they begin their community college work, providing their college attendance is continuous. See "Guidelines for Determination of Catalog Year," page 89.

Arizona students are urged to refer to the Course Applicability System for the transferability of specific courses from Arizona community colleges. Students may also access the guide through the Academic Transfer Articulation Office's Web site 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 89).

Direct transfer of courses from other accredited institutions to the School of Social Work is subject to the existence of parallel and equal courses in the school's curriculum. Transfer credit is not given for courses in which the student has earned a grade below "C" (2.00).

Credit for "life experience" is not given in lieu of course requirements. A minimum of 30 semester hours earned in resident credit courses at ASU is required for graduation.

ADVISING

Students are responsible for meeting the degree requirements and seeking advising regarding their program status and progress. Upon admission to the Social Work major, each student is assigned a faculty advisor who assists with career planning. The academic advisor assists students with program planning, registration, preparation of needed petitions, verification of graduation requirements, and referrals to university and/or community resources. Students must meet with an academic advisor before any registration transaction.

DEGREES

Social Work—BSW

The school's undergraduate curriculum leads to a Bachelor of Social Work (BSW) degree. The BSW degree program is accredited by the Council of Social Work Education (CSWE). The principal objective of the undergraduate curriculum is to prepare students for beginning-level generalist practice in social work. The program is also designed to prepare students for culturally sensitive practice and to provide preparation for graduate training in social work. During the freshman and sophomore years, students concentrate on obtaining a strong background in liberal arts and sciences and are classified as preprofessional until they are officially

L literacy and critical inquiry / MA mathematics / CS computer/statistics/quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF PUBLIC PROGRAMS

admitted to the professional program. Entrance into the Social Work professional program is not automatic (see "Applying for Professional Program Status," page 194).

Junior and senior Social Work majors focus on social work courses in research, social policy and services, social work practice, human behavior in the social environment, and field instruction in community agencies. In addition, majors take elective courses in related areas.

The BSW-level practitioner is seen as a generalist. The curriculum focuses on such roles as advocacy, case management, problem-solving, and referral functions with individuals, groups, families, organizations, and the community.

Tucson Component. The Tucson Component serves students living and working in southern Arizona pursuing the BSW degree. The Tucson Component—established in 1995 as a partnership between the Arizona Department of Economic Security, the ASU School of Social Work, and the School of Extended Education—became permanent in 1999. Full- and part-time students can complete all required upper-division social work courses and electives at a centrally located site near downtown Tucson, while completing general studies and other degree requirements through area community colleges, the University of Arizona, and Northern Arizona University. For more information, call the Tucson Component at 520/884-5507, extension 10.

MINOR

The minor in Social Welfare is designed for students interested in analyzing complex family, individual, and societal problems in the context of societal values, cultural diversity, and other social and economic variables. Eighteen hours of graded classroom SWU course work are required, including SWU 171, 291, 332, and 374. A minimum of 12 semester hours must be resident credit at the Tempe campus, and at least 12 hours must be upper-division credit. Students must receive a grade of "C" (2.00) or higher for all courses in the minor.

EARLY INTERVENTION CERTIFICATE PROGRAM

The Early Intervention Certificate is cross-disciplinary and is certified by the Arizona Early Intervention Program within the Arizona State Department of Economic Security. Students majoring in Social Work or Family and Human Development who wish to learn more about infants and toddlers at risk for developmental delay because of a known disability or because of exposure to environmental risk factors, and students who wish to work with infants and toddlers and their families in a variety of settings would benefit from this training.

Students interested in earning a certificate in Early Intervention must make a formal application to the Early Intervention Training Program. Students must have completed 56 semester hours and have a cumulative GPA of at least 2.50.

The certificate requires 17 semester hours of course work:

Choose between the course combinations below..... 8
 CDE 338 Child Development Practicum (3)
 FAS 484 Internship (5)

— or —

SWU 412 Field Instruction I (5)
 SWU 414 Field Instruction II (3)
 SWU 437 Infant-Family Assessment and Observation *L/SB*..... 3
 or CDE 437 Infant-Family Assessment and
 Observation *L/SB* (3)
 SWU 446 Risk and Variation in Child Development..... 3
 or CDE 444 Risk and Variation in Child
 Development (3)
 SWU 498 Pro Seminar..... 3
 or CDE 337 Early Childhood Intervention (3)

BIS CONCENTRATION

A concentration in social welfare is available under the Bachelor of Interdisciplinary Studies (BIS) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the BIS program take active roles in creating their educational plans and defining their career goals. For more information, see "School of Interdisciplinary Studies," page 139.

GRADUATE PROGRAMS

The faculty in the School of Social Work offer a Master of Social Work (MSW) degree and a PhD 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 89.

General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy the university requirement for a minimum of 35 semester hours of approved course work in General Studies. See "General Studies," page 93.

Note that all three General Studies awareness areas are required, consult an academic advisor for approved 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 Courses" table, page 96, 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. The School of Social Work faculty strongly encourages students to consider Spanish or a tribal language.

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 306 Applied Ethics.

Social and Behavioral Sciences. The following courses are required:

ECN 211 Macroeconomic Principles <i>SB</i>	3
PGS 101 Introduction to Psychology <i>SB</i>	3
or SOC 101 Introductory Sociology <i>SB</i> (3)	
or SOC 301 Principles of Sociology <i>SB</i> (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 89), the College of Public Programs requirements, including the General Studies requirements (see "General Studies," page 93), 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 BSW 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 may have courses randomly removed through an "administrative drop" action.

Social Work Core Requirements

SWU 171 Introduction to Social Work <i>SB, H</i>	3
SWU 291 Social Service Delivery Systems	3
SWU 295 Foundations of Social Work Practice <i>SB/C</i>	3
SWU 301 Human Behavior in the Social Environment I <i>L/SB</i>	3
SWU 310 Social Work Practice I.....	3
SWU 320 Research Methods in Social Work	3
SWU 332 Social Policy and Services	3
SWU 340 Human Behavior in the Social Environment II <i>SB</i>	3
SWU 374 Diversity and Oppression in a Social Work Context <i>C</i>	3
SWU 410 Social Work Practice II.....	3
SWU 411 Social Work Practice III.....	3
SWU 412 Field Instruction I.....	5
SWU 413 Field Instruction Seminar.....	1
SWU 414 Field Instruction II	3

SWU 415 Integrative Field Seminar	3
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 and must have senior standing to participate in the field work.

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" (2.00). If a grade of "D" (1.00) or "E" (0.00) 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 BSW 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.

BSW 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. Faculty are committed to helping students acquire the capabilities necessary for high-quality, social work generalist practice.

BSW field instruction agencies are located primarily in the Phoenix metropolitan area for Tempe students and throughout southern Arizona for Tucson students. 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. Completed courses may be eligible for use in a future graduate program

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

COLLEGE OF PUBLIC PROGRAMS

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. A student is placed on probation automatically when his or her 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 187, for more details on academic standards.

Academic Dishonesty. The faculty of the School of Social Work follow the guidelines as specified in the University Student Academic Integrity Policy. A copy of the policy may be obtained from the School of Social Work Office of Academic Services.

Termination from the Social Work Professional Program. A student is terminated from the professional program under any one of the following circumstances:

1. A BSW student receives an "E" (0.00) grade (failure) in field practicum.
2. A BSW 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. At any time field instructors, faculty, or the faculty advisor identify problems that indicate that a student cannot perform the required functions of a social worker.

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 more 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 Committee on Academic and Professional Standards only after discussing the matter with the instructor of the course, the faculty advisor, and the program coordinator.

STUDENT RESPONSIBILITIES

Students are expected to support and maintain the highest professional standards as spelled out in the *ASU Student Code of Conduct* and the *National Association of Social Workers Code of Ethics*.

Regular attendance is expected in all classes and in field education and is a critical factor in evaluation of performance.

Students' rights are protected through appeal to the Committee on Academic and Professional Standards or through consultation with the school's ombudsperson.

SOCIAL WORK (UNDERGRADUATE PROGRAM) (SWU)

For more SWU courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

D SWU 171 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.

General Studies: SB, H

D SWU 250 Stress Management Tools. (3)

spring

Helps students develop an understanding and behaviors to create a healthy balance in their lives by studying the bio/psycho/social aspects of wellness. Lecture, cooperative learning, small group activity.

D 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: PGS 101 or SOC 101. Pre- or corequisite: SWU 171.

D 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: PGS 101 or SOC 101. Pre- or corequisites: SWU 171, 291.

General Studies: SB, C

D SWU 301 Human Behavior in the Social Environment I. (3)

fall and spring

Analyzes theories of personality and life span development from methodological, ecological, and systems perspectives up to adolescence. Prerequisite: PGS 101 or SOC 101. Pre- or corequisites: SWU 171, 291, 295.

General Studies: L/SB

D 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. May be repeated for credit. Lecture, discussion.

D SWU 310 Social Work Practice I. (3)

fall and spring

Introduces social work methods, emphasizing the following skills: cross-cultural interviewing, assessment, referrals, and process and psychological recording. Prerequisite: SWU 295. Pre- or corequisite: SWU 301.

D SWU 320 Research Methods in Social Work. (3)

fall and spring

Applies scientific principles to field practice, impact assessment, intervention procedures, and problem formulation in social work. Lecture, cooperative learning. Pre- or corequisite: SWU 310.

D 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, small group work. Prerequisite: MAT 142 or higher. Pre- or corequisite: SWU 320.

General Studies: CS

D SWU 332 Social Policy and Services. (3)

fall and spring

Contemporary social, political, and economic issues. Special emphasis on poverty and inequality in the Southwest. Analysis and development of social welfare policies and programs. Lecture, cooperative learning, small group activity. Prerequisite: ECN 211. Pre- or corequisite: SWU 310.

D SWU 337 Early Childhood Intervention. (3)

fall and spring

Explores how child development theory affects practice with children and families, emphasizing development of young children and early intervention. Cross-listed as CDE 337. Credit is allowed for only SWU 337 or CDE 337. Prerequisite: CDE 232 or SWU 301 (or their equivalents).

D SWU 340 Human Behavior in the Social Environment II. (3)

fall and spring

Life span development from middle childhood to maturity. Lecture, discussion. Prerequisite: SWU 301. Pre- or corequisites: SWU 302, 310.

General Studies: SB

D 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. Emphasizes populations of the Southwest. Prerequisite: SWU 310.

General Studies: C

D SWU 410 Social Work Practice II. (3)

fall and spring

Knowledge and skills in social work practice with individuals and families. Prerequisites: PHI 101 (or 105 or 306); SWU 310; Social Work major. Corequisites: SWU 412, 413.

D SWU 411 Social Work Practice III. (3)

fall and spring

Knowledge and skills in social work practice with groups, communities, and organizations. Prerequisites: SWU 410, 412, 413; Social Work major. Corequisites: SWU 414, 415.

D SWU 412 Field Instruction I. (5)

fall and spring

16 hours a week of supervised practice in an approved placement. Fee. Prerequisite: Social Work major. Corequisites: SWU 410, 413.

D SWU 413 Field Instruction Seminar. (1)

fall and spring

Field-focused seminar, including practice evaluation. 1.5 hours per week. Prerequisite: Social Work major. Corequisites: SWU 410, 412.

D SWU 414 Field Instruction II. (3)

fall and spring

16 hours a week of supervised practice in an approved placement. Fee. Prerequisites: SWU 413; Social Work major. Corequisites: SWU 411, 415.

D SWU 415 Integrative Field Seminar. (3)

fall and spring

Field-focused seminar to help integrate practice and theory. Prerequisite: Social Work major. Corequisites: SWU 411, 414.

D SWU 437 Infant Family Assessment and Observation. (3)

fall

Examines strategies for implementing developmental assessments and observations of young children and their families. Cross-listed as CDE 437. Credit is allowed for only CDE 437 or SWU 437. Prerequisite: CDE 232 or SWU 301 (or their equivalents).

General Studies: L/SB

D SWU 442 Introduction to Practice with Children and Families in Child Welfare. (3)

fall and spring

Focuses on the characteristics, strengths, and service needs of families and children in the Child Welfare System. Lecture, cooperative learning. Prerequisites: SWU 410, 412, 413; Social Work major.

D SWU 444 Issues in School Social Work. (3)

fall and spring

Demonstrates how community, family, and school are interdependent using an ecological metaphor, and introduces school social work. Lecture, cooperative learning. Prerequisites: SWU 410, 412, 413; Social Work major.

D SWU 446 Risk and Variation in Child Development. (3)

fall and spring

Impact that constitutional and environmental risk factors have on young children and their families. Cross-listed as CDE 444. Credit is allowed for only CDE 444 or SWU 446. Prerequisite: CDE 232 or SWU 301 (or their equivalents).

D SWU 493 Honors Thesis. (1–6)

selected semesters

General Studies: L

D SWU 498 Pro-Seminar. (1–7)

selected semesters

Topics may include the following:

- Developing Grants and Fund Raising. (3)
- Early Childhood Intervention. (3)
- Social Work and the Law. (3)
- Social Work with American Indians. (3)
- Substance Abuse. (3)

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

SOCIAL WORK (GRADUATE PROGRAM) (SWG)

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

Polytechnic Campus

www.poly.asu.edu

Gerald S. Jakubowski, PhD, Vice President, ASU;
Provost, Polytechnic Campus

Academic Organization	200
Accreditation	200
Admission	201
Transfer Credit	201
Partnership with Chandler-Gilbert Community College	201
Advising	201
University College Services	202
Student Services	204
Agribusiness and Resource Management, Morrison School of	206
East College	214
Technology and Applied Sciences, College of	245
Map	277
Faculty and Academic Professionals	767
Administrative Personnel	849
Directory	899

Resource Management Baccalaureate Degrees and Majors” table, page 207; the “East College Baccalaureate Degrees and Majors” table, page 215; and the “College of Technology and Applied Sciences Baccalaureate Degrees and Majors” table, page 246.)

The Polytechnic campus is located in southeast Mesa, 23 miles from the Tempe campus. With a student population of approximately 5,000, the 600-acre campus offers a small residential college environment. Students learn in high-tech, mediated classrooms and practice in fully equipped laboratories. They enjoy small classes, friendly and accessible faculty, opportunities for student leadership, and academic support services dedicated to helping them grow, learn, and graduate. Polytechnic campus graduates move into the world of work with knowledge and skills that help them succeed in their careers and in their personal and civic lives.

The campus is easily accessible via major interstate routes. See the “Polytechnic Campus Map,” page 277. For more information, call 480/727-3278, or access the Web site at www.poly.asu.edu.

ACADEMIC ORGANIZATION

The chief academic officer of the Polytechnic campus is the provost. There are two colleges and one school administered by deans. These academic units develop and implement the teaching, research, and service programs of the institution. Additional support for the academic mission of the campus is provided by Library Services and Information Technology, each administered by a director. See “Polytechnic Campus,” page 767, and “Academic Organization,” page 19.

ACCREDITATION

The North Central Association of Colleges and Schools accreditation of ASU includes the Polytechnic campus. In addition, programs in Electronics Engineering Technology, Manufacturing, and Mechanical Engineering Technology are accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. (TAC of ABET). For more information, call 410/347-7700, or write

TECHNOLOGY ACCREDITATION COMMISSION
OF THE ACCREDITATION BOARD FOR
ENGINEERING AND TECHNOLOGY, INC
111 MARKET PLACE SUITE 1050
BALTIMORE MD 21202-7102

Both the professional flight and the air transportation management concentrations, in the Department of Aeronautical Management Technology, are fully accredited by the

Arizona State University at the Polytechnic campus emphasizes professional and technical programs that prepare graduates to move directly into careers and become ethical leaders in professional, public, and private life. A polytechnic is distinctive by offering

1. programs that integrate theory and practice;
2. programs based solidly in the liberal arts and sciences that emphasize problem solving, project-based activities, laboratories, and work experiences;
3. research that emphasizes applied knowledge and solutions to problems; and
4. programs that are responsive to the needs of business, industry, the professions, and the community

Twenty-three baccalaureate degree programs, nine master’s degree programs, a doctoral program, and four certificate programs are offered through the College of Technology and Applied Sciences, East College, and the Morrison School of Agribusiness and Resource Management. Partnerships with programs at the Tempe campus provide additional doctoral program opportunities on the Polytechnic campus. (See the “Morrison School of Agribusiness and