



Arizona State University

1998–99 Graduate Catalog

All colleges, schools, divisions, and departments establish certain academic requirements that must be met before a degree is granted. Advisors, directors, department chairs, and deans are available to help the student understand these requirements, but the student is responsible for fulfilling them. At the end of a student's course of study, if requirements for graduation have not been satisfied, the degree is not granted. For this reason, it is important for all students to acquaint themselves with all regulations, to be informed throughout their college careers, and to be responsible for completing requirements. Courses, programs, and requirements described in the catalog may be suspended, deleted, restricted, supplemented, or changed in any other manner at any time at the sole discretion of the university and the Arizona Board of Regents. The catalog does not establish a contractual relationship but summarizes the total requirements the student must currently meet before qualifying for a faculty recommendation to the Arizona Board of Regents to award a degree.

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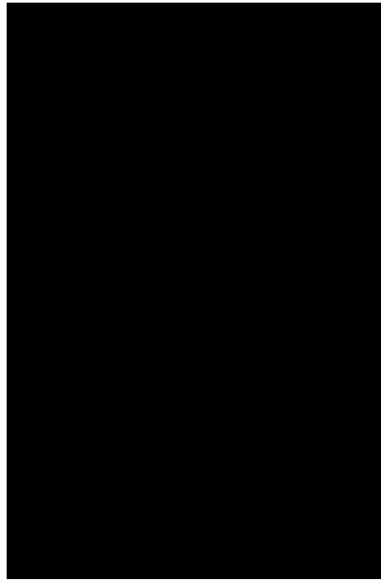
To discuss specific matters relating to degree programs, please contact the units responsible.

Front Cover

The Charles Trumbull Hayden Library houses the university's largest multidisciplinary collection. The underground entrance was added in 1989 along with 97,000 additional square feet of service area. (Photo by Jim Richardson.)

Photos

Priscilla Benbrook—page 68
Courtesy of ASU West—page 385
Jeff Havir—pages 27, 169, 202
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John Phillips—page 85
Dave Tevis—page 370
Tim Trumble—pages 4, 10, 40, 45, 50, 52, 57, 60, 64, 74, 76, 80, 82, 87, 141, 144, 152, 157, 161, 174, 177, 179, 185, 192, 200, 217, 222, 226, 237, 240, 253, 266, 282, 283, 300, 356, 359, 379, 380



Dear ASU Students and Prospective Students:

I am pleased to welcome you to Arizona State University, a Research I university in one of the nation's fastest-growing metropolitan areas.

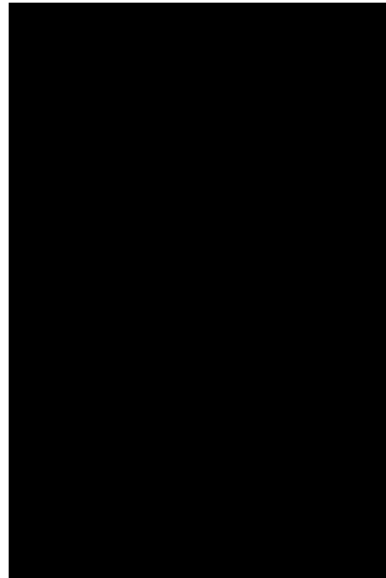
I am proud of the fact that ASU continues to advance rapidly as a major national research university. This accomplishment is reflected by the talented and diverse students and faculty we have attracted, our ability to deliver quality education, achievements in research and creative activities, and the richness in our cultural diversity. We are committed to excellence in research, teaching, and professional and community service, which are all essential components of a great and engaging university.

Arizona State University is noted for its outstanding resources and environment and for faculty characterized by their creative and scholarly distinction and innovation. As well, we seek ways to create educational partnerships with the community to enrich its intellectual life and enhance the professional tenor of our programs.

We will continue to strive for excellence and to encourage creative individuals to be curious and to think critically and boldly. It is an honor to invite you to be a part of the vigorous academic community at ASU.

Sincerely,

Lattie F. Coor
President



I extend a warm welcome to new and continuing graduate students at Arizona State University. ASU is a national leader in many professional and scholarly areas. We offer 46 doctoral and 90 master's degree programs, supported by 1,600 faculty members whose teaching and research are recognized nationally and internationally.

The close collaboration of our programs with organizations in the private and public sectors fosters research and professional opportunities for our graduate students in the surrounding greater metropolitan area and beyond. As an integral part of our doctoral education, we emphasize professional development through ASU's Preparing Future Faculty program, one of the first in the nation.

We are proud of our commitment to graduate education: to prepare our students to become scholarly and professional leaders in a new century in which technology will continue to transform the boundaries of knowledge. Our partnership with ASU students provides a nurturing environment to enhance their intellectual and personal growth. Please call on us if we may be of assistance.

I wish you success in the pursuit of your goals at Arizona State University.

Cordially,

Bianca L. Bernstein
Dean of the Graduate College

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Codes and Abbreviations

Course Listing Codes

Code	Definition
M	ASU Main campus code*
W	ASU West campus code*
GLG	Example of a departmental prefix designation
410	Example of a course number
(3)	Example of course semester hours
F	Course offered fall only
S	Course offered spring only
SS	Course offered summer session only
F, S	Course offered both semesters
A	Course offered once a year
F '98	Course offered every other year on semester indicated
N	Course not regularly offered

* Campus codes are not used in the catalogs but appear in the fall and spring *Schedule of Classes* and the *Summer Sessions Bulletin*.

The ASU Web is the online presence of Arizona State University on the World Wide Web. Offering links and guides to almost 30,000 different Web pages housed on ASU servers, the ASU Web is a comprehensive resource for learning about the people and places of Arizona State University. It is the goal of the ASU Web to help all visitors, students, staff, and faculty to make the most of their experiences at ASU while pioneering a new age of communications, research, and education.

See "Web Directory," page 364, for a list of college, department, and school Web sites.

The Graduate Catalog is the official source of information for programs and requirements of ASU and its colleges, departments, and schools. For information on determining catalog year and university requirements, see "Graduate Studies at ASU Main and ASU East," page 88.

ASU Home Page: www.asu.edu

Graduate College Home Page: www.asu.edu/graduate

Who to Contact at ASU Main

*Arizona is on mountain standard
time all year and does not
observe daylight saving time.*

Area Code 602

ASU switchboard.....	965-9011
Admissions, Graduate College.....	965-6113
Advising Office, Graduate College.....	965-3521
Bookstore.....	965-7928
Computer Accounts.....	965-1211
Modem dial-in access.....	965-6900
Computing Commons.....	965-5968
Disabled Student Resources.....	965-1234
Employment	
Off-Campus.....	965-6318
On-Campus.....	965-5186
Fee Payment.....	965-4347
Format Evaluation.....	965-3521
Gammage Box Office.....	965-3434
Graduate College.....	965-3521
Graduate Student Association.....	965-1263
Graduation Office.....	965-6980
Health Services.....	965-3346
Housing Office.....	965-3515
Intramural Sports information.....	965-8900
Intercollegiate Athletics (ticket information).....	965-2381
Library	
Hayden (arts, business, humanities, information, social sciences).....	965-6164
Noble (sciences).....	965-7607
Parking and Transit Services.....	965-6406
Public Events.....	965-5062
Registration information.....	965-3124
InTouch.....	350-1500
Scholarships.....	965-4845
Student Financial Assistance Office.....	965-3355
Student I.D.	965-3124
Summer Sessions.....	965-6611
Testing Services, University.....	965-7146
Transcripts.....	965-7853

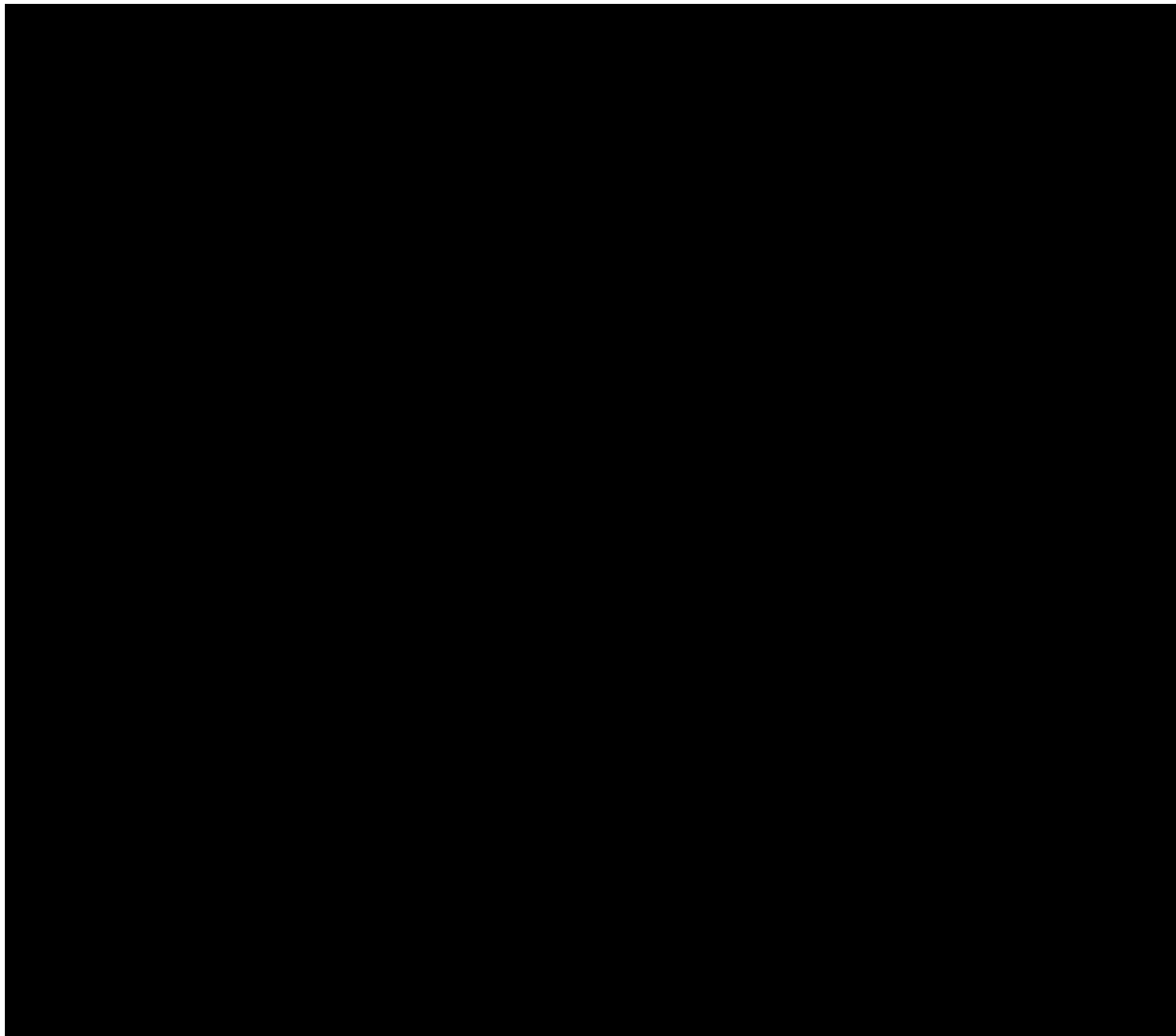
An ASU Main academic directory is available on page 363. An ASU East directory is available on page 374. An ASU West directory is available on page 384.

Course Prefix Index

The course descriptions in this catalog refer to ASU Main and ASU East courses.
For ASU West course descriptions, see the *ASU West Catalog*.

AAD	Architectural Administration and Management ...	131	EEE	Electrical Engineering	190
ACC	Accountancy	123	EET	Electronics Engineering Technology	290
ADE	Architectural Design and Technology Studios	131	EMC	Educational Media and Computers	186
AET	Aeronautical Engineering Technology	295	ENG	English	196
AGB	Agribusiness	126	EPD	Environmental Design and Planning	200
AMT	Aeronautical Management Technology	288	EPE	Exercise Science/Physical Education	206
ANP	Environmental Analysis and Programming	131	ERS	Environmental Resources	203
APH	Architectural Philosophy and History	132	ETM	Environmental Technology Management	293
ARA	Art Auxiliary	134	FAS	Family Studies	208
ARE	Art Education	134	FIN	Finance	146
ARP	Architecture Professional Studies	132	FLA	Foreign Languages	235
ARS	Art History	135	FON	Food and Nutrition	208
ART	Art	135	FRD	Family Resources and Human Development	210
ASB	Anthropology	128	FRE	French	235
ASE	Analysis and Systems	192	GCU	Cultural Geography	211
ASM	Anthropology	129	GER	German	236
AST	Astronomy	262	GLG	Geology	214
ATE	Architectural Technology	132	GPH	Physical Geography	212
BIO	Biology	140	GRA	Graphic Design	179
BLE	Bilingual Education	172	GRN	Gerontology	215
BME	Bioengineering	138	HED	Higher Education	218
BUE	Business Education	186	HIS	History	221
BUS	Business Administration	145	HSA	Health Services Administration	216
CDE	Child Development	208	HUM	Humanities	224
CED	Counselor Education	169	IED	Indian Education	173
CEE	Civil Engineering	155	IEE	Industrial and Management Systems Engineering	226
CET	Computer Engineering Technology	291	IND	Industrial Design	179
CGC	Computer Graphic Communications	292	INT	Interior Design	180
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CHM	Chemistry	154	JRN	Journalism	241
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COE	College of Education	183	LAW	Law	237
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CPY	Counseling Psychology	168	LIS	Library Science	173
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DAN	Dance	178	MAT	Mathematics	244
DSC	Design	179	MCB	Molecular and Cellular Biology	251
ECD	Early Childhood Education	172	MCO	Mass Communication	241
ECN	Economics	182	MET	Manufacturing Engineering Technology	295
EDA	Educational Administration and Supervision	183	MGT	Management	148
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EED	Elementary Education	173	MIC	Microbiology	250
			MKT	Marketing	148

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MTC	Music Theory and Composition	252	REA	Real Estate	145
MTE	Mathematics Education	245	REC	Recreation	272
MUE	Music Education	252	REL	Religious Studies	274
MUP	Music Performance	253	SCM	Supply Chain Management	145
NUR	Nursing	255	SED	Secondary Education	174
OPM	Operations and Production Management	229	SEM	Science and Engineering of Materials	277
PAF	Public Affairs	270, 271	SHS	Communication Disorders	162
PGS	Psychology	269	SOC	Sociology	282
PHI	Philosophy	258	SPA	Spanish	236
PHY	Physics	262	SPE	Special Education	283
PLA	Landscape Architecture	201	SPF	Educational Policy Studies	277
PLB	Plant Biology	264	STP	Statistics and Probability	245
POS	Political Science	266	SWG	Social Work	279
PSY	Psychology	268	TCM	Telecommunication	242
PUB	Scholarly Publishing	275	THE	Theatre	297
PUP	Urban and Environmental Planning	201	THP	Theatre Performance and Production	298
QBA	Quantitative Business Analysis	229	UET	Microelectronics Engineering Technology	291



ASU Main Academic Administration

See pages 357–362 for more information on ASU Main, page 375 for ASU East administrators, and page 385 for ASU West administrators.

Lattie F. Coor, *President*

Ben R. Forsyth, *Senior Executive Assistant to the President*

Lawrence D. Mankin, *Special Assistant to the President for Administration*

Ruth Jones, *Executive Assistant for University Programs*

Peterson Zah, *Special Advisor to the President on American Indian Affairs*

Milton D. Glick, *Senior Vice President and Provost*

Christine K. Wilkinson, *Vice President for Student Affairs*

Allan Price, *Vice President for Institutional Advancement*

Mernoy Harrison, *Vice Provost for Administrative Services*

Jonathan Fink, *Interim Vice Provost for Research*

Charles R. Bantz, *Vice Provost*

Kathleen Church, *Vice Provost*

Walter Harris Jr., *Vice Provost*

William E. Lewis, *Vice Provost for Information Technology*

Louis Olivas, *Assistant Vice President for Academic Affairs*

Graduate College

Bianca L. Bernstein, *Dean*

Thomas E. Callarman, *Associate Dean for Student Services*

Deborah N. Losse, *Associate Dean for Academic Programs*

Sandra L. Luehrsen, *Assistant Dean*

Kent D. Blaylock, *Senior Manager*

Colleges, Schools, and Libraries

John Meunier, *Dean, College of Architecture and Environmental Design*

Larry E. Penley, *Dean, College of Business*

David C. Berliner, *Dean, College of Education*

Peter E. Crouch, *Dean, College of Engineering and Applied Sciences*

Bette F. DeGraw, *Dean, College of Extended Education*

J. Robert Wills, *Dean, College of Fine Arts*

Bianca L. Bernstein, *Dean, Graduate College*

Alan A. Matheson, *Interim Dean, College of Law*

Gary S. Krahenbuhl, *Dean, College of Liberal Arts and Sciences*

Barbara A. Durand, *Dean, College of Nursing*

Anne L. Schneider, *Dean, College of Public Programs*

Emilia E. Martinez-Brawley, *Dean, School of Social Work*

Ted Humphrey, *Dean, University Honors College*

Sherrie Schmidt, *Dean, University Libraries*

Graduate Council

Nicholas O. Alozie, *Public Affairs*

Ronald Barr, *Research*

Richard K. Burdick, *Economics*

Ronald Carlson, *English*

Jeffrey L. Coles, *Finance*

Fernando Delgado, *Communication, ASU West*

Gerald Farin, *Computer Science*

Dale Beck Furnish, *Law*

Susan Klepacki, *Social Work (Student Member)*

Michael D. Kroelinger, *Design*

Susan Mattson, *Nursing*

Edward A. Nelsen, *Psychology in Education*

Ann W. Nichols, *Social Work*

Barry G. Ritchie, *Physics and Astronomy*

Bradley B. Rogers, *Technology and Applied Sciences, ASU East*

Elaine Surbeck, *Curriculum and Instruction*

Janet Taylor, *Art*

Jonathan L. Upchurch, *Civil and Environmental Engineering*

Graduate Degrees, Majors, and Concentrations Offered at ASU Main and ASU East

Baccalaureate degrees and majors offered at ASU Main, ASU East, and ASU West are shown in the *General Catalog*. Graduate degrees and majors at ASU East are shown on page 14.

ASU MAIN

Master of Accountancy

Master of Architecture

Master of Arts

Anthropology

- Archaeology
- Bioarchaeology
- Linguistics
- Medical anthropology
- Museum studies
- Physical anthropology
- Social-cultural anthropology

Art

- Art education
- Art history

Communication

Curriculum and Instruction¹

- Bilingual education
- Communication arts
- Early childhood education
- Elementary education
- English as a second language
- Indian education
- Mathematics education
- Multicultural education²
- Reading education
- Science education
- Secondary education
- Social studies education

Educational Psychology¹

English

- Comparative literature
- English linguistics
- Literature and language
- Rhetoric and composition

French

- Comparative literature
- Language and culture
- Literature

Geography

German

- Comparative literature
- Language and culture
- Literature

History

- Asian history
- British history
- European history

Latin American history

Public history

U.S. history

U.S. Western history

Humanities

Learning and Instructional Technology¹

Mathematics

Music

- Ethnomusicology
- Music history and literature
- Music theory

Philosophy

Political Science

- American politics
- Comparative politics
- International relations
- Political theory

Religious Studies

Social and Philosophical Foundations of Education

Sociology

Spanish

- Comparative literature
- Language and culture
- Linguistics
- Literature

Special Education¹

Theatre

Master of Business Administration

Master of Computer Science¹

Master of Counseling

Master of Education

- Counselor Education
- Counseling and student personnel
- Curriculum and Instruction¹

Bilingual education

Communication arts

Early childhood education

Elementary education

English as a second language

Indian education

Mathematics education

Multicultural education²

Reading education

Science education

Secondary education

Social studies education

Educational Administration and Supervision¹

Educational Media and Computers³

Business education

Educational Psychology¹

Higher and Postsecondary Education

Higher education

Learning and Instructional Technology¹

Special Education¹

Gifted

Mildly handicapped

Multicultural exceptional

Severely/multiply handicapped

Master of Environmental Planning

Environmental Planning

Urban planning

Master of Fine Arts

Art

- Ceramics
- Drawing
- Fibers
- Intermedia
- Metals
- Painting
- Photographic studies
- Photography
- Printmaking
- Sculpture
- Wood

Creative Writing

Dance

Theatre

Acting

Scenography

Theatre for youth

Master of Health Services Administration

Master of Mass Communication

Master of Music

Composition

Music Education

Choral music

General music

Instrumental music

Performance

Music theatre musical direction

Music theatre performance

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

² Applications for this program are not being accepted at this time.

³ Major with formalized concentration(s); other areas of study are available.

Graduate Degrees, Majors, and Concentrations Offered at ASU Main and ASU East (continued)

Performance pedagogy	Family Resources and Human Development	Early childhood education
Piano accompanying	Family studies	Elementary education
Solo performance (instrumental, keyboard, voice)	General family resources and human development	English as a second language
Master of Natural Science	Geology	Indian education
Natural Science	Industrial Engineering ¹	Mathematics education
Biology	Information Management	Multicultural education ²
Chemistry	Justice Studies	Reading education
Geology	Mechanical Engineering ¹	Science education
Mathematics	Microbiology	Secondary education
Microbiology	Molecular and Cellular Biology	Social studies education
Physics	Nursing	Educational Administration and Supervision
Plant biology	Adult health nursing	Higher and Postsecondary Education
Master of Physical Education	Community health nursing	Higher education
Master of Public Administration	Community mental health/psychiatric nursing	Doctor of Musical Arts
Public Administration	Nursing administration	Music
Public information management	Parent-child nursing	Choral music
Public management	Physics	General music
Public policy analysis and evaluation	Plant Biology	Instrumental music
Urban management and planning	Ecology	Music Composition
Master of Science	Photosynthesis	Solo performance (instrumental, keyboard, voice)
Aerospace Engineering ¹	Recreation	Doctor of Philosophy
Bioengineering	Outdoor recreation	Aerospace Engineering
Biology ³	Recreation administration	Anthropology
Ecology	Social/psychological aspects of leisure	Archaeology
Building Design	Tourism and commercial recreation	Physical anthropology
Computer-aided design	Statistics	Social-cultural anthropology
Energy performance and climate-responsive architecture	Master of Science in Design	Bioengineering
Facilities development and management	Design	Biology ³
Chemical Engineering ¹	Graphic design	Ecology
Biomedical and clinical engineering	Industrial design	Business Administration
Chemical process engineering	Interior design	Accountancy
Chemical reactor engineering	Master of Science in Engineering	Finance
Energy and materials conversion	Aerospace Engineering ¹	Health services research ²
Environmental control	Chemical Engineering ¹	Information management
Solid-state processing	Biomedical and clinical engineering	Management
Transport phenomena	Chemical process engineering	Marketing
Chemistry	Chemical reactor engineering	Supply chain management
Analytical chemistry	Energy and materials conversion	Chemical Engineering
Biochemistry	Environmental control	Biomedical and clinical engineering
Geochemistry	Solid-state processing	Chemical process engineering
Inorganic chemistry	Transport phenomena	Chemical reactor engineering
Organic chemistry	Civil Engineering ¹	Energy and materials conversion
Physical chemistry	Electrical Engineering ¹	Environmental control
Solid-state chemistry	Engineering Science ¹	Solid-state processing
Civil Engineering ¹	Industrial Engineering ¹	Transport phenomena
Communication Disorders	Mechanical Engineering ¹	Chemistry
Computer Science ¹	Master of Social Work	Analytical chemistry
Construction	Master of Taxation	Biochemistry
Construction science	Master of Teaching English as a Second Language	Biochemistry
Facilities Management	Doctor of Education	Geochemistry
Management	Curriculum and Instruction ¹	Inorganic chemistry
Economics	Bilingual education	Organic chemistry
Electrical Engineering ¹	Communication arts	Physical chemistry
Engineering Science ¹	Curriculum studies	Solid-state chemistry
Environmental Resources		Civil Engineering
Exercise Science/Physical Education		Communication
		Communicative development
		Intercultural communication
		Organizational communication

¹ Major offered toward more than one degree at the same level.² Applications for this program are not being accepted at this time.³ Major with formalized concentration(s); other areas of study are available.

Graduate Degrees, Majors, and Concentrations Offered at ASU Main and ASU East (continued)

Computer Science	Geography	Science and Engineering of Materials
Counseling Psychology	Geology	High-resolution nanostructure analysis
Curriculum and Instruction	History	Solid-state device materials design
Curriculum studies	Asian history	Social Work ⁵
Early childhood education	British history	Sociology
Educational media and computers	European history	Spanish
Elementary education	Latin American history	Speech and Hearing Science
English education	U.S. history	Developmental neurolinguistic disorders
Exercise and wellness education	Industrial Engineering	Neuroauditory processes
Music education	Justice Studies	Neurogerontologic communication disorders
Physical education	Criminal and juvenile justice	Theatre
Reading education	Dispute resolution	Theatre for youth
Science education	Law, justice, and minority populations	Doctor of Public Administration
Special education	Law, policy, and evaluation	Juris Doctor⁴
Economics	Woman, law, and justice	ASU EAST
Educational Leadership and Policy Studies	Learning and Instructional Technology ¹	Master of Science
Educational Psychology	Instructional technology	Agribusiness
Lifespan developmental psychology	Learning	Agribusiness management and marketing
Measurement, statistics, and methodological studies	Mathematics	Food quality assurance
School psychology	Mechanical Engineering	Master of Technology
Electrical Engineering	Microbiology	Technology
Engineering Science	Molecular and Cellular Biology	Aeronautical engineering technology
English	Physics	Aeronautical management technology
Literature	Plant Biology ³	Electronics and computer engineering technology
Rhetoric/composition and linguistics	Ecology	Graphic communications technology
Environmental Design and Planning	Photosynthesis	Industrial management and supervision
Design	Political Science	Manufacturing engineering technology
History, theory, and criticism	American politics	Mechanical engineering technology
Planning	Comparative politics	Welding engineering technology
Exercise Science	International relations	
Biomechanics	Political theory	
Motor behavior/sport psychology	Psychology	
Physiology of exercise	Behavioral neuroscience	
Family Science ³	Clinical psychology	
Marriage and family therapy	Cognitive/behavioral systems	
	Developmental psychology	
	Environmental psychology	
	Social psychology	

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

² Applications for this program are not being accepted at this time.

³ Major with formalized concentration(s); other areas of study are available.

⁴ Students apply to this degree program through the College of Law, not the Graduate College.

⁵ Applications for this program are not being accepted for the 1998–1999 academic year.

Concurrent and Dual Degrees Offered at ASU Main

Concurrent or Dual Degrees	Administered by	Pages
Juris Doctor/Master of Health Services Administration	College of Law/School of Health Administration and Policy	62, 75, 109, 215
Juris Doctor/Master of Science in Economics*	College of Law/Department of Economics	62
Juris Doctor/Doctor of Philosophy in Justice Studies	College of Law/Committee on Law and Social Sciences	75, 233
Master of Business Administration/Juris Doctor	College of Business/College of Law	62, 75
Master of Business Administration/Master of Accountancy	College of Business	62
Master of Business Administration/Master of Architecture	College of Business/School of Architecture	59, 62
Master of Business Administration/Master of Health Services Administration	College of Business	62, 108
Master of Business Administration/Master of International Management	College of Business/American Graduate School of International Management (Thunderbird) or Groupe Ecole Supérieure de Commerce Toulouse, France, or Universidad Carlos III de Madrid, Spain	62
Master of Business Administration/Master of Science in Economics	College of Business	62
Master of Business Administration/Master of Science in Information Management	College of Business	62
Master of Business Administration/Master of Taxation	College of Business	62
Master of Science in Engineering (Industrial Engineering)/Master of International Management of Technology	Department of Industrial and Management Systems Engineering/American Graduate School of International Management (Thunderbird)	225
Master of Science in Justice Studies/Master of Arts in Anthropology	School of Justice Studies/Department of Anthropology	84, 128, 229–230
Master of Science in Nursing/Master of Health Services Administration	College of Nursing/School of Health Administration and Policy	62, 81, 109, 215–216, 254

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

Certificate Programs Offered at ASU Main, East, and West

Certificate Program	Administered by	Pages
Certificate in Gerontology	Jointly offered by ASU Main and ASU West	87, 215
Certificate in Hazardous Materials and Waste Management	ASU East	448 in the <i>General Catalog</i>
Certificate in Medieval Studies	Arizona Center for Medieval and Renaissance Studies	248–249
Certificate in Museum Studies	Department of Anthropology	127
Certificate in Renaissance Studies	Arizona Center for Medieval and Renaissance Studies	248–249
Certificate in Scholarly Publishing	Department of History	274–275
Certificate in Translation	Department of Languages and Literatures	351 in the <i>General Catalog</i>
Certificate in Transportation Systems	Committee on Transportation Systems	299–300

Graduate College Calendar

April 1998

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 1998

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24	25	26	27	28	29	30
31						

June 1998

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27	28	29	30			

July 1998

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August 1998

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1998

Summer Sessions

Check the 1998 *Summer Sessions Bulletin* for details and to confirm these dates.

Mon., Feb. 2– Tues., June 2	Registration and drop/add for first five-week session and eight-week session
Mon., Feb. 2– Tues., July 7	Registration and drop/add for second five-week session
Thurs., April 30	Final fee payment deadline for all summer sessions (For students who register after April 30, fees are due daily.)
Mon., June 1	Instruction begins for first five-week session and eight-week session
Mon., June 8	Unrestricted withdrawal deadline for first five-week session and eight-week session
Fri., June 19	Restricted course withdrawal for first five-week session and eight-week session
Fri., June 26	Restricted complete withdrawal deadline for first five-week session
Thurs., July 2	August graduation filing deadline (must be met to have name appear in commencement program) First five-week session ends
Fri., July 3	Classes are excused for Independence Day
Mon., July 6	Instruction begins for second five-week session
Mon., July 13	Unrestricted withdrawal deadline for second five-week session
Fri., July 17	Restricted complete withdrawal deadline for eight-week session
Fri., July 24	Eight-week session ends Restricted course withdrawal deadline for second five-week session
Fri., July 31	Restricted complete withdrawal deadline for second five-week session
Tues., Aug. 4	Final fee payment deadline for fall 1998 (For students who register after Aug. 4, fees are due daily.)
Fri., Aug. 7	Second five-week session ends Commencement
1998	Fall Semester
Check the fall 1998 <i>Schedule of Classes</i> for details and to confirm these dates.	
Wed., April 29– Fri., Aug. 28	Registration
Tues., Aug. 4	Final fee payment deadline for fall 1998 (For students who register after Aug. 4, fees are due daily.)

September 1998

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October 1998

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November 1998

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December 1998

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27	28	29	30	31		

January 1999

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31						

Mon., Aug. 17,
Tues., Aug. 18
8:00 A.M.—5:00 P.M.

Mon.—Sat.,
Aug. 17–22

Tues., Aug. 18,
7:00–9:00 P.M.;
Wed., Aug. 19,
10:00 A.M.—noon

Thurs., Aug. 20

Thurs., Aug. 20,
8:00 A.M.—5:00 P.M.

Mon., Aug. 24

Mon., Sept. 7

Fri., Sept. 18

Tue., Sept. 22,
3:00–5:00 P.M.

Fri., Oct. 16

Fri., Oct. 30

Wed., Nov. 11

Wed., Nov. 25

Thurs.—Fri.,
Nov. 26–27

Thurs., Dec. 3

Wed., Dec. 9

Thurs., Dec. 10

Fri.—Sat.,
Dec. 11–12;
Mon.—Thurs.,
Dec. 14–17

Fri., Dec. 11

Tues., Dec. 15

Fri., Dec. 18

Mon., Dec. 28

1999

Check the spring 1999 *Schedule of Classes* for details and to confirm these dates.

Wed., Dec. 2, 1998–
Fri., Jan. 22, 1999

New Teaching Assistant Orientation

International Student Orientation and activities

Welcoming orientation for all new graduate students
Memorial Union, Arizona Room

New Faculty and Academic Professional Orientation and
Reception

Workshops for new graduate students
Memorial Union, Arizona Room

Instruction begins

Classes are excused for Labor Day

Unrestricted withdrawal deadline

Thesis/Dissertation Workshop—Memorial Union,
Ventana Room

December graduation filing deadline (must be met to have
name appear in commencement program)

Mid-semester scholarship reports due in Office of Registrar

Restricted course withdrawal deadline

Classes are excused for Veterans Day

Last day to submit materials for thesis and dissertation
format review and oral defense

Classes are excused for Thanksgiving recess

Restricted complete withdrawal deadline

Instruction ends

Reading day

Final examinations

Last day to hold oral examination in defense of a thesis or
dissertation

Last day to obtain signature of the Graduate College dean for
thesis and dissertation approval

Last day to submit to ASU Bookstore binding for thesis and
dissertation (by 3:00 P.M.)

Commencement

Winter Session (CEE) instruction begins

Spring Semester

Registration

February 1999

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28						

March 1999

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April 1999

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May 1999

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30	31					

June 1999

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Tues., Dec. 15, 1998	Final fee payment deadline for spring 1999 (For students who register after Dec. 15, fees are due daily.)
Fri., Jan. 1, 1999	Winter Session classes are excused for New Year's Day
Mon., Jan. 11	New Teaching Assistant Orientation
Mon.–Sat., Jan. 11–16	International Student Orientation and activities
Tues., Jan. 12	New Graduate Student Orientation begins
Fri., Jan. 15	Winter Session (CEE) instruction ends
Mon., Jan. 18	Classes are excused for Martin Luther King Jr. Day
Tues., Jan. 19	Instruction begins
Tues., Feb. 11 3:00–5:00 P.M.	Thesis/Dissertation Workshop—Memorial Union, Ventana Room
Fri., Feb. 12	Unrestricted withdrawal deadline
Sun.–Sun., Mar. 14–21	Classes are excused for spring recess
Fri., April 2	May graduation filing deadline (must be met to have name appear in commencement program)
	Mid-semester scholarship reports due in Office of Registrar
Fri., April 2	Restricted course withdrawal deadline
Fri., April 23	Last day to submit materials for thesis and dissertation format review and oral defense
Mon., April 29	Restricted complete withdrawal deadline
Wed., May 5	Instruction ends
Thurs., May 6	Reading day
Fri., May 7	Last day to hold oral examination in defense of a thesis or dissertation
Fri.–Sat., May 7–8;	Final examinations
Mon.–Thurs., May 10–13	
Tues., May 11	Last day to obtain signature of the Graduate College dean for thesis and dissertation approval
	Last day to submit to ASU Bookstore binding for thesis and dissertation (by 3:00 P.M.)
Fri., May 14	Commencement

1999 Summer Session

Check the 1999 *Summer Sessions Bulletin* for details and to confirm these dates.

Tues., June 1	Instruction begins for first five-week session and eight-week session
Mon., June 7	Unrestricted withdrawal for first five-week session
Fri., June 18	Restricted course withdrawal for first five-week session and eight-week session
Fri., June 25	Restricted complete withdrawal deadline for first five-week session
Thurs., July 1	First five-week session ends
	August graduation filing deadline (must be met to have name appear in commencement program)

July 1999

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August 1999

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22	23	24	25	26	27	28
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Fri., July 2	Classes are excused for Independence Day
Mon., July 5	Instruction begins for second five-week session
Mon., July 12	Unrestricted withdrawal deadline for second five-week session
Fri., July 16	Last day to submit materials for thesis and dissertation format review and oral defense
Fri., July 23	Eight-week session ends Restricted complete withdrawal deadline for eight-week session Restricted course withdrawal deadline for second five-week session
Fri., July 30	Last day to hold oral examination in defense of a thesis or dissertation Restricted complete withdrawal deadline for second five-week session
Tues., Aug. 3	Last day to obtain signature of the Graduate College dean for thesis and dissertation approval Last day to submit to ASU Bookstore binding for thesis and dissertation (by 3:00 P.M.)
Fri., Aug. 6	Second five-week session ends Commencement

Graduate College Offices

See page 57 for information on the offices of the Graduate College.

Accreditation and Affiliation

Arizona State University is accredited by the North Central Association of Colleges and Secondary Schools. Programs in the various colleges, schools, divisions, and departments are accredited by, affiliated with, or members of national bodies as described in the “Academic Accreditation,” “Academic Affiliation,” and “Academic Membership” tables. Some programs in the College of Education are approved by the State Board of Education

(Arizona) and the National Association of School Psychologists.

ASU West. ASU West is separately accredited by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. Professional programs in the various academic areas are accredited by national bodies as described in the “Academic Accreditation at ASU West” table, page 24.

Academic Accreditation

Unit or Program	Accredited by
College of Architecture and Environmental Design B.S.D., Interior Design M.Arch. M.E.P.	Foundation for Interior Design Education Research National Architectural Accrediting Board Planning Accreditation Board
College of Business all programs School of Accountancy and Information Management School of Health Administration and Policy	American Assembly of Collegiate Schools of Business American Assembly of Collegiate Schools of Business Accrediting Commission on Education for Health Services Administration
College of Education M.C., Counseling Ph.D., Counseling Psychology; Ph.D., Educational Psychology with a concentration in school psychology	Council for Accreditation of Counseling and Related Educational Programs American Psychological Association
College of Engineering and Applied Sciences B.S.E., Aerospace Engineering; B.S.E., Bioengineering; B.S.E., Chemical Engineering; B.S.E., Civil Engineering; B.S.E., Computer Systems Engineering; B.S.E., Electrical Engineering; B.S.E., Industrial Engineering; B.S.E., Mechanical Engineering; B.S., Computer Science B.S., Construction	Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc. Computer Science Accreditation Commission of the Computing Sciences Accreditation Board American Council for Construction Education
College of Fine Arts Department of Theatre School of Music	National Association of Schools of Theatre National Association of Schools of Music
College of Law J.D.	American Bar Association
College of Liberal Arts and Sciences B.A., B.S., Family Resources and Human Development with a concentration in human nutrition-dietetics; M.S., Family Resources and Human Development with a concentration in general family resources and human development (human nutrition and foods area) B.S., Clinical Laboratory Sciences M.S., Communication Disorders	American Dietetic Association National Accrediting Agency for Clinical Laboratory Sciences American Speech-Language-Hearing Association

Academic Accreditation (continued)

Unit or Program	Accredited by
Ph.D., Psychology with a concentration in clinical psychology	American Psychological Association
College of Nursing B.S.N., M.S., Nursing	American Association of Colleges of Nursing Arizona Nurses Association (American Nurses Credentialing Center's Commission on Accreditation) Arizona State Board of Nursing National League for Nursing
College of Public Programs B.S., Recreation	Council on Accreditation of the National Recreation and Park Association
Master of Public Administration	National Association of Schools of Public Affairs and Administration
Walter Cronkite School of Journalism and Telecommunication	Accrediting Council on Education in Journalism and Mass Communications
College of Technology and Applied Sciences B.S., Aeronautical Engineering Technology; B.S., Electronics Engineering Technology; B.S., Manufacturing Engineering Technology	Technology Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.
School of Social Work B.S.W., M.S.W.	Council on Social Work Education

Academic Affiliation

Unit or Program	Affiliated with
College of Architecture and Environmental Design School of Architecture	American Institute of Architects, Central Arizona and Rio Salado Chapters Architectural Research Centers Consortium Association for Computer-Aided Design in Architecture Association of Collegiate Schools of Architecture
School of Design	American Society of Interior Designers Human Factors and Ergonomics Society Industrial Designers Society of America Interior Design Educators Council International Interior Design Association Society of Environmental Graphic Designers
School of Planning and Landscape Architecture	American Planning Association American Society of Landscape Architects Association of Collegiate Schools of Planning Council of Educators in Landscape Architecture Society for Range Management Soil and Water Conservation Society Wildlife Society
College of Education	American Association of Colleges for Teacher Education American Educational Research Association The Holmes Partnership University Council for Educational Administration
College of Public Programs Department of Recreation Management and Tourism School of Justice Studies	American Humanics, Inc. Onati International Institute for the Sociology of Law

Academic Membership

Unit or Program	Membership with
College of Education	American Association of Colleges for Teacher Education Association of Colleges and Schools of Education in State Universities and Land Grant Colleges The Holmes Partnership University Council for Educational Administration
College of Law	Association of American Law Schools
College of Liberal Arts and Sciences	
Department of Anthropology	American Anthropological Association Council for Museum Anthropology
Department of Biology	American Institute of Biological Sciences American Society of Naturalists American Society of Zoologists Animal Behaviorists' Society Sigma Psi
Department of Chemistry and Biochemistry	American Association for Advancement of Science American Chemical Society American Society for Advancement of Science
Department of Exercise Science and Physical Education	American Alliance for Health, Physical Education, Recreation and Dance American College of Sports Medicine American Physical Society Arizona Society of Medical Technology Committee on Allied Health Education National Association for Physical Education in Higher Education North American Society for Sports History North American Society for Sports Psychology and Physical Activity
Department of Family Resources and Human Development	American Dietetic Association
Department of Geography	Association of American Geographers
Department of Geology	American Association of Petroleum Geologists American Geophysical Union American Institute of Professional Geologists Geological Society of America Mineralogical Society of America Society of Economic Paleontologists and Mineralogists
Department of History	American Association for State and Local History American Association of Museums American Historical Association Institute of Historical Research
Department of Languages and Literatures	American Council on Teaching Foreign Language International Studies Association Modern Language Association
Department of Mathematics	American Mathematical Society Mathematical Association of America Rocky Mountain Mathematics Consortium Society for Industrial and Applied Mathematics
Department of Microbiology	American Society of Microbiology
Department of Military Science	Association of U.S. Army
M.S., Ph.D., Molecular and Cellular Biology	American Society of Medical Technology
Department of Philosophy	American Philosophical Association

Academic Membership (continued)

Unit or Program	Membership with
Department of Physics and Astronomy	Acoustical Society of America American Association of Physicists in Medicine American Association of Physics Teachers American Astronomical Society American Crystallographic Association American Physical Society American Vacuum Society International Astronomical Union Materials Research Society Optical Society of America
Department of Plant Biology	American Association of Plant Physiologists Botanical Society of America Mycological Society of America Phycological Society of America
Department of Political Science	American Political Science Association Inter-University Consortium for Political and Social Research
Department of Psychology	American Society of Clinical Psychologists
Department of Sociology	American Sociological Association
Department of Women's Studies	Association for Women in Science National Women's Studies Association
College of Nursing	American Association of Colleges of Nursing Western Institute of Nursing
College of Public Programs	
Department of Communication	Speech Communication Association Western States Communication Association
Department of Recreation Management and Tourism	Arizona American Indian Tourism Association Arizona Heritage Alliance Arizona Park and Recreation Association Arizona State Therapeutic Association National Park and Recreation Association Travel Tourism Research Association
School of Justice Studies	Arizona Justice Educators Association of Criminal Justice Doctoral Programs National Academic Advising
School of Public Affairs	National Association of Schools of Public Affairs and Administration
Walter Cronkite School of Journalism and Telecommunication	Association of Schools of Journalism and Mass Communication Broadcast Education Association
Graduate College	Council of Graduate Schools
University Honors College	National Collegiate Honors Council

Academic Accreditation at ASU West

Unit or Program	Accredited by
College of Human Services	
Department of Recreation and Tourism Management	National Recreation and Park Association/American Association for Leisure and Recreation
Department of Social Work	Council on Social Work Education
School of Management	
all programs	American Assembly of Collegiate Schools of Business

Answers to Frequently Asked Questions about ASU Main

Admission Information?

Requests for applications or information regarding the progress of your file during the admission process should be directed to Graduate Admissions at 602/965-6113 or asugrad@asu.edu.

Advising?

The Graduate College Advising Office is open to all prospective and admitted graduate students. To make an appointment, call 602/965-3521 or stop by the center lobby, Wilson Hall. Students admitted to degree programs should first seek advising within their programs.

Application Fee Waiver?

ASU cannot waive, defer, or refund the fee. Your application will be processed and sent to the academic unit to which you are applying only after you have paid the fee.

Campus Map?

The Graduate College (Wilson Hall, center lobby) distributes maps of the campus and parking facilities. Maps are also available at the ASU Bookstore, 602/965-3191.

Catalog?

Once admitted, you will receive a free copy. This copy is mailed to you if your address is in the United States, or you may present your letter of admission at the Graduate College to receive your free copy. Catalogs are also available in the ASU Bookstore, 602/965-3191, for a fee of \$4.00.

Corresponding with ASU?

Address letters to: Department or Office Name (if known), Arizona State University, Tempe, AZ 85287. If you are not sure how to address your letter, send it to Graduate Admissions, and the staff will forward it to the proper office.

Degree Programs and Departments?

For specific information about faculty, programs, application requirements, and deadlines, contact the academic unit directly, by mail or by phone. Unsure? Contact the Graduate College Advising Office, 602/965-3521 or asugrad@asu.edu.

Employment on Campus?

The Student Financial Assistance Office, 602/965-5186, maintains and posts up-to-date employment information for jobs on campus.

Financial Assistance? Loans? Assistantships? Scholarships?

First: Your best source of information is the academic unit to which you are applying; its director of graduate study can provide information, guidance, and application forms for scholarships, assistantships, and fellowships specific to that program. Most units set early deadlines and require special forms or procedures.

Second: Information about loans, scholarships, grants, work-study and employment opportunities is available through the Graduate College Financial Assistance Office, Wilson Hall, 602/965-3521 or e-mail gradaid@asu.edu.

Third: Visit a college or public library. Ask a reference librarian for publications that will help you locate scholarships and fellowships.

Fourth: If you currently attend school, ask your advisor for guidance in finding information about financial assistance in your discipline.

Financial Guarantee?

International applicants must provide explicit verification from their banks that funds equal to the amount specified on the Financial Guarantee Form are available to them. (A general assurance of good credit will not be accepted.)

Housing?

Stop by the Graduate College to pick up a copy of our Housing Information Sheet.

On Campus:

Cholla Apartments house graduate students and should be specifically requested on applications for campus housing instead of other facilities; contact Residential Life, 602/965-3515, or reslife@asuvm.inre.asu.edu. University housing is available for married students or families only at ASU East campus.

Off Campus:

Information is available from the ASASU Tenants/Commuter Students Association, 602/965-6246. Tempe, Mesa, Scottsdale, and Phoenix newspapers advertise many rentals.

I-20/IAP-66 Forms?

ASU issues visa forms permitting attendance at ASU only. ASU issues the I-20 or IAP-66 only after receiving an acceptable Financial Guarantee Form and admitting the student.

International Student Association?

Contact the International Student Office, 602/965-7451, after arriving on campus.

Internet Information?

ASU Web: www.asu.edu; ASU Graduate College: www.asu.edu/graduate; e-mail: asugrad@asu.edu.

Letters of Recommendation?

Send these letters to the director of graduate study in the academic unit to which you are applying.

Phone Numbers?

Call the campus operator Monday through Friday, 8:00 A.M. to 5:00 P.M. at 602/965-9011. Unsure about who to call? Contact a Graduate College advisor, 602/965-3521.

Registration?

Contact the Office of the Registrar, 602/965-3171, or the academic unit to which you are applying.

Release of Information to Friends?

By law, staff members can give personal information only to the applicant. If you want us to release information to another person, you must authorize us to do so. Send a letter to Graduate Admissions naming the person who may represent you. Please sign the letter with your name as it appears on your application form.

Research and Support Facilities?

The academic unit to which you are applying is your best source of information about library resources, computing facilities, and research laboratories in your field. Contact the program's director of graduate study.

Teacher Certification?

Students who select nondegree and degree graduate programs at ASU are eligible for Arizona teacher's certification. Contact the Office of Student Affairs, College of Education at 602/965-3877.

TOEFL Scores?

ASU accepts score reports from *only* the Educational Testing Service, Princeton, New Jersey, or from a sponsor organization such as LASPAU or the Institute of International Education.

Transcripts?

For a full description of the ASU policy on transcripts, see page 42.