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.
Credits and Recognition

Production
Graphic Design / Albert L. Camasto
Printing / Custom Printing Center, Owensville, Missouri

The Graduate Catalog is produced, in conjunction with the Graduate College, by Academic and Administrative Documents:

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ARIZONA STATE UNIVERSITY
MAIN CAMPUS
PO BOX 871003
TEMPE AZ 85287–1003

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
Jim Painter—pages 3, 372
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, 399, 379, 390
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
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<td>ASU Main campus code*</td>
</tr>
<tr>
<td>W</td>
<td>ASU West campus code*</td>
</tr>
<tr>
<td>GLG</td>
<td>Example of a departmental prefix designation</td>
</tr>
<tr>
<td>410</td>
<td>Example of a course number</td>
</tr>
<tr>
<td>(3)</td>
<td>Example of course semester hours</td>
</tr>
<tr>
<td>F</td>
<td>Course offered fall only</td>
</tr>
<tr>
<td>S</td>
<td>Course offered spring only</td>
</tr>
<tr>
<td>SS</td>
<td>Course offered summer session only</td>
</tr>
<tr>
<td>F, S</td>
<td>Course offered both semesters</td>
</tr>
<tr>
<td>A</td>
<td>Course offered once a year</td>
</tr>
<tr>
<td>F ’98</td>
<td>Course offered every other year on semester indicated</td>
</tr>
<tr>
<td>N</td>
<td>Course not regularly offered</td>
</tr>
</tbody>
</table>

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

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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

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<td>PHY</td>
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<td>PLB</td>
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</table>
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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
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Kent D. Blaylock, Senior Manager

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Sherrie Schmidt, Dean, University Libraries

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

Educational Psychology

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 Technology
- Mathematics
- Music
- Ethnomusicology
- Music history and literature
- Music theory
- Philosophy

Political Science
- American politics
- Comparative politics
- International relations

Religious Studies
- Social and Philosophical Foundations of Education
- Sociology
- Spanish
- Comparative literature
- Language and culture
- Linguistics
- Literature

Special Education
- Theatre

**Master of Business Administration**

**Master of Computer Science**

**Master of Counseling**

**Master of Education**

- Counselor Education
- Counseling and student personnel
- Curriculum and Instruction
- Bilingual education
- Communication arts
- Early childhood education
- Elementary education
- English as a second language
- Indian education
- Mathematics education
- Multicultural education
- Reading education
- Science education
- Secondary education
- Social studies education

**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
Piano accompanying
Solo performance (instrumental, keyboard, voice)

**Master of Natural Science**
- Natural Science
- Biology
- Chemistry
- Geology
- Mathematics
- Microbiology
- Physics
- Plant biology

**Master of Physical Education**

**Master of Public Administration**
- Public Administration
  - Public information management
  - Public management
  - Public policy analysis and evaluation
  - Urban management and planning

**Master of Science**
- Aerospace Engineering
- Bioengineering
- Biology
- Chemistry
- Computer-aided design
- Energy performance and climate-responsive architecture
- Facilities development and management
- Chemical Engineering
  - Biomedical and clinical engineering
  - Chemical process engineering
  - Chemical reactor engineering
  - Energy and materials conversion
  - Environmental control
  - Solid-state processing
  - Transport phenomena
- Chemistry
  - Analytical chemistry
  - Biochemistry
  - Geochemistry
  - Inorganic chemistry
  - Organic chemistry
  - Physical chemistry
  - Solid-state chemistry
  - Civil Engineering
  - Communication Disorders
  - Computer Science
  - Construction
  - Construction science
  - Facilities
  - Management
- Economics
- Electrical Engineering
- Engineering Science
- Environmental Resources
- Exercise Science/Physical Education

Family Resources and Human Development
- Family studies
- General family resources and human development
- Geology
- Industrial Engineering
- Information Management
- Justice Studies
- Mechanical Engineering
- Microbiology
- Molecular and Cellular Biology
- Nursing
  - Adult health nursing
  - Community health nursing
  - Community mental health/psychiatric nursing
  - Nursing administration
  - Parent-child nursing
- Physics
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- Ecology
- Photosynthesis
- Recreation
  - Outdoor recreation
  - Recreation administration
  - Social/psychological aspects of leisure
  - Tourism and commercial recreation
- Statistics

**Master of Science in Design**
- Design
- Graphic design
- Industrial design
- Interior design

**Master of Science in Engineering**
- Aerospace Engineering
- Chemical Engineering
  - Biomedical and clinical engineering
  - Chemical process engineering
  - Chemical reactor engineering
  - Energy and materials conversion
  - Environmental control
  - Solid-state processing
  - Transport phenomena
- Civil Engineering
- Communication
  - Intercultural communication
- Marketing
- Supply chain management
- Chemical Engineering
  - Biomedical and clinical engineering
  - Chemical process engineering
  - Chemical reactor engineering
  - Energy and materials conversion
  - Environmental control
  - Solid-state processing
- Transport phenomena
- Chemistry
  - Analytical chemistry
  - Biochemistry
  - Geochemistry
  - Inorganic chemistry
  - Organic chemistry
  - Physical chemistry
- Solid-state chemistry
- Civil Engineering
- Communication
  - Communicative development
  - Intercultural communication
  - Organizational communication

Doctor of Musical Arts
- Music
  - Choral music
  - General music
  - Instrumental music
  - Music Composition

Doctor of Philosophy
- Aerospace Engineering
- Anthropology
  - Archaeology
  - Physical anthropology
  - Social-cultural anthropology
- Bioengineering
- Biology
- Chemistry
  - Analytical chemistry
  - Biochemistry
  - Geochemistry
  - Inorganic chemistry
  - Organic chemistry
  - Physical chemistry
- Solid-state chemistry
- Civil Engineering
  - Communication
    - 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)

<table>
<thead>
<tr>
<th>Major/Program</th>
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</thead>
<tbody>
<tr>
<td>Computer Science</td>
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<tr>
<td>Counseling Psychology</td>
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<tr>
<td>Curriculum and Instruction</td>
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<td>Curriculum studies</td>
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<tr>
<td>Early childhood education</td>
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<tr>
<td>Educational media and computers</td>
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<tr>
<td>Elementary education</td>
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<tr>
<td>English education</td>
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<tr>
<td>Exercise and wellness education</td>
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<tr>
<td>Music education</td>
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<td>Physical education</td>
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<tr>
<td>Reading education</td>
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<tr>
<td>Science education</td>
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<tr>
<td>Special education</td>
</tr>
<tr>
<td>Economics</td>
</tr>
<tr>
<td>Educational Leadership and Policy Studies</td>
</tr>
<tr>
<td>Educational Psychology</td>
</tr>
<tr>
<td>Lifespan developmental psychology</td>
</tr>
<tr>
<td>Measurement, statistics, and methodological studies</td>
</tr>
<tr>
<td>School psychology</td>
</tr>
<tr>
<td>Electrical Engineering</td>
</tr>
<tr>
<td>Engineering Science</td>
</tr>
<tr>
<td>English</td>
</tr>
<tr>
<td>Literature</td>
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<tr>
<td>Rhetoric/composition and linguistics</td>
</tr>
<tr>
<td>Environmental Design and Planning</td>
</tr>
<tr>
<td>Design</td>
</tr>
<tr>
<td>History, theory, and criticism</td>
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<tr>
<td>Planning</td>
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<tr>
<td>Exercise Science</td>
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<tr>
<td>Biomechanics</td>
</tr>
<tr>
<td>Motor behavior/sport psychology</td>
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<tr>
<td>Physiology of exercise</td>
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<tr>
<td>Family Science</td>
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<tr>
<td>Marriage and family therapy</td>
</tr>
<tr>
<td>Geography</td>
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<tr>
<td>Geology</td>
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<tr>
<td>History</td>
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<tr>
<td>Asian history</td>
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<td>British history</td>
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<td>European history</td>
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<td>Latin American history</td>
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<tr>
<td>U.S. history</td>
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<tr>
<td>Industrial Engineering</td>
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<tr>
<td>Justice Studies</td>
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<tr>
<td>Criminal and juvenile justice</td>
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<tr>
<td>Dispute resolution</td>
</tr>
<tr>
<td>Law, justice, and minority populations</td>
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<tr>
<td>Law, policy, and evaluation</td>
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<tr>
<td>Woman, law, and justice</td>
</tr>
<tr>
<td>Learning and Instructional Technology¹</td>
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<td>Instructional technology</td>
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<td>Learning</td>
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<tr>
<td>Mathematics</td>
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<tr>
<td>Mechanical Engineering</td>
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<tr>
<td>Microbiology</td>
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<td>Molecular and Cellular Biology</td>
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<td>Physics</td>
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<td>Plant Biology³</td>
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<td>Ecology</td>
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<td>Photosynthesis</td>
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<td>Political Science</td>
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<td>Comparative politics</td>
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<td>International relations</td>
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<td>Political theory</td>
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<td>Psychology</td>
</tr>
<tr>
<td>Behavioral neuroscience</td>
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<tr>
<td>Clinical psychology</td>
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<tr>
<td>Cognitive/behavioral systems</td>
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<tr>
<td>Developmental psychology</td>
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<tr>
<td>Environmental psychology</td>
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<tr>
<td>Social psychology</td>
</tr>
<tr>
<td>Science and Engineering of Materials</td>
</tr>
<tr>
<td>High-resolution nanostructure analysis</td>
</tr>
<tr>
<td>Solid-state device materials design</td>
</tr>
<tr>
<td>Social Work⁵</td>
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<td>Sociology</td>
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<tr>
<td>Spanish</td>
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<tr>
<td>Speech and Hearing Science</td>
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<tr>
<td>Developmental neurolinguistic disorders</td>
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<tr>
<td>Neuroauditory processes</td>
</tr>
<tr>
<td>Neurogerontologic communication disorders</td>
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<tr>
<td>Theatre</td>
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<td>Theatre for youth</td>
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<td>Doctor of Public Administration</td>
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<tr>
<td>Juris Doctor⁴</td>
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<td>ASU EAST</td>
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<td>Master of Science</td>
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<td>Agribusiness</td>
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<tr>
<td>Agribusiness management and marketing</td>
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<tr>
<td>Food quality assurance</td>
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<tr>
<td>Master of Technology</td>
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<tr>
<td>Technology</td>
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<tr>
<td>Aeronautical engineering technology</td>
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<tr>
<td>Aeronautical management technology</td>
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<tr>
<td>Electronics and computer engineering technology</td>
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<tr>
<td>Graphic communications technology</td>
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<tr>
<td>Industrial management and supervision</td>
</tr>
<tr>
<td>Manufacturing engineering technology</td>
</tr>
<tr>
<td>Mechanical engineering technology</td>
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<tr>
<td>Welding engineering technology</td>
</tr>
</tbody>
</table>

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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

<table>
<thead>
<tr>
<th>Concurrent or Dual Degrees</th>
<th>Administered by</th>
<th>Pages</th>
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</thead>
<tbody>
<tr>
<td>Juris Doctor/Master of Health Services Administration</td>
<td>College of Law/School of Health Administration and Policy</td>
<td>62, 75, 109, 215</td>
</tr>
<tr>
<td>Juris Doctor/Master of Science in Economics*</td>
<td>College of Law/Department of Economics</td>
<td>62</td>
</tr>
<tr>
<td>Juris Doctor/Doctor of Philosophy in Justice Studies</td>
<td>College of Law/Committee on Law and Social Sciences</td>
<td>75, 233</td>
</tr>
<tr>
<td>Master of Business Administration/Juris Doctor</td>
<td>College of Business/College of Law</td>
<td>62, 75</td>
</tr>
<tr>
<td>Master of Business Administration/Master of Accountancy</td>
<td>College of Business</td>
<td>62</td>
</tr>
<tr>
<td>Master of Business Administration/Master of Architecture</td>
<td>College of Business/School of Architecture</td>
<td>59, 62</td>
</tr>
<tr>
<td>Master of Business Administration/Master of Health Services Administration</td>
<td>College of Business</td>
<td>62, 108</td>
</tr>
<tr>
<td>Master of Business Administration/Master of International Management</td>
<td>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</td>
<td>62</td>
</tr>
<tr>
<td>Master of Business Administration/Master of Science in Economics</td>
<td>College of Business</td>
<td>62</td>
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<tr>
<td>Master of Business Administration/Master of Science in Information Management</td>
<td>College of Business</td>
<td>62</td>
</tr>
<tr>
<td>Master of Business Administration/Master of Taxation</td>
<td>College of Business</td>
<td>62</td>
</tr>
<tr>
<td>Master of Science in Engineering (Industrial Engineering)/Master of International Management of Technology</td>
<td>Department of Industrial and Management Systems Engineering/American Graduate School of International Management (Thunderbird)</td>
<td>225</td>
</tr>
<tr>
<td>Master of Science in Justice Studies/Master of Arts in Anthropology</td>
<td>School of Justice Studies/Department of Anthropology</td>
<td>84, 128, 229–230</td>
</tr>
<tr>
<td>Master of Science in Nursing/Master of Health Services Administration</td>
<td>College of Nursing/School of Health Administration and Policy</td>
<td>62, 81, 109, 215–216, 254</td>
</tr>
</tbody>
</table>

* Applications for this program are not being accepted at this time.
### Certificate Programs Offered at ASU Main, East, and West

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

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)

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

Fri., July 31
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 Schedule of Classes for details and to confirm these dates.

Wed., April 29–Fri., Aug. 28
Registration

Fri., Aug. 4
Final fee payment deadline for fall 1998 (For students who register after Aug. 4, fees are due daily.)
Mon., Aug. 17, Tues., Aug. 18
8:00 A.M.–5:00 P.M.
New Teaching Assistant Orientation

Mon.–Sat.,
Aug. 17–22
International Student Orientation and activities

Tues., Aug. 18,
7:00–9:00 P.M.;
Wed., Aug. 19,
10:00 A.M.–noon
Welcoming orientation for all new graduate students
Memorial Union, Arizona Room

Thurs., Aug. 20
New Faculty and Academic Professional Orientation and Reception

Thurs., Aug. 20,
8:00 A.M.–5:00 P.M.
Workshops for new graduate students
Memorial Union, Arizona Room

Mon., Aug. 24
Instruction begins

Mon., Sept. 7
Classes are excused for Labor Day

Fri., Sept. 18
Unrestricted withdrawal deadline

Tue., Sept. 22,
3:00–5:00 P.M.
Thesis/Dissertation Workshop—Memorial Union,
Ventana Room

Fri., Oct. 16
December graduation filing deadline (must be met to have
name appear in commencement program)
Mid-semester scholarship reports due in Office of Registrar

Fri., Oct. 30
Restricted course withdrawal deadline

Wed., Nov. 11
Classes are excused for Veterans Day

Wed., Nov. 25
Last day to submit materials for thesis and dissertation
format review and oral defense

Thurs.–Fri.,
Nov. 26–27
Classes are excused for Thanksgiving recess

Thurs., Dec. 3
Restricted complete withdrawal deadline

Wed., Dec. 9
Instruction ends

Thurs., Dec. 10
Reading day

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

Fri., Dec. 11
Last day to hold oral examination in defense of a thesis or
dissertation

Tues., Dec. 15
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., Dec. 18
Commencement

Mon., Dec. 28
Winter Session (CEE) instruction begins

1999 Spring Semester
Check the spring 1999 Schedule of Classes for details and to confirm these dates.
Registration
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; Mon.–Thurs., May 10–13  Final examinations

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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<td>31</td>
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</tbody>
</table>

**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

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**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

<table>
<thead>
<tr>
<th>Unit or Program</th>
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<tbody>
<tr>
<td><strong>College of Architecture and Environmental Design</strong></td>
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<tr>
<td>B.S.D., Interior Design</td>
<td>Foundation for Interior Design Education Research</td>
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<tr>
<td>M.Arch.</td>
<td>National Architectural Accrediting Board</td>
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<tr>
<td>M.E.P.</td>
<td>Planning Accreditation Board</td>
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<tr>
<td><strong>College of Business</strong></td>
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<tr>
<td>all programs</td>
<td>American Assembly of Collegiate Schools of Business</td>
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<tr>
<td>School of Accountancy and Information Management</td>
<td>American Assembly of Collegiate Schools of Business</td>
</tr>
<tr>
<td>School of Health Administration and Policy</td>
<td>Accrediting Commission on Education for Health Services Administration</td>
</tr>
<tr>
<td><strong>College of Education</strong></td>
<td></td>
</tr>
<tr>
<td>M.C., Counseling</td>
<td>Council for Accreditation of Counseling and Related Educational Programs</td>
</tr>
<tr>
<td>Ph.D., Counseling Psychology; Ph.D., Educational Psychology with a concentration in school psychology</td>
<td>American Psychological Association</td>
</tr>
<tr>
<td><strong>College of Engineering and Applied Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>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</td>
<td>Engineering Accreditation Commission of the Accreditation Board for Engineering and Technology, Inc.</td>
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<tr>
<td>B.S., Construction</td>
<td>Computer Science Accreditation Commission of the Computing Sciences Accreditation Board</td>
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<tr>
<td><strong>College of Fine Arts</strong></td>
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<tr>
<td>Department of Theatre</td>
<td>National Association of Schools of Theatre</td>
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<tr>
<td>School of Music</td>
<td>National Association of Schools of Music</td>
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<tr>
<td><strong>College of Law</strong></td>
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<tr>
<td>J.D.</td>
<td>American Bar Association</td>
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<tr>
<td><strong>College of Liberal Arts and Sciences</strong></td>
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<tr>
<td>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)</td>
<td>American Dietetic Association</td>
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<tr>
<td>B.S., Clinical Laboratory Sciences</td>
<td>National Accrediting Agency for Clinical Laboratory Sciences</td>
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<tr>
<td>M.S., Communication Disorders</td>
<td>American Speech-Language-Hearing Association</td>
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</table>
### Academic Accreditation (continued)

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

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

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<thead>
<tr>
<th>Unit or Program</th>
<th>Membership with</th>
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<tr>
<td><strong>College of Education</strong></td>
<td>American Association of Colleges for Teacher Education</td>
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<td></td>
<td>Association of Colleges and Schools of Education in State Universities and Land</td>
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<td>Grant Colleges</td>
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<td>The Holmes Partnership</td>
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<td>College of Law</td>
<td>Association of American Law Schools</td>
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<td><strong>College of Liberal Arts and Sciences</strong></td>
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<td>Department of Anthropology</td>
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<td>Council for Museum Anthropology</td>
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<td>Department of Biology</td>
<td>American Institute of Biological Sciences</td>
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<td>American Society of Naturalists</td>
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<tr>
<td>Department of Chemistry and Biochemistry</td>
<td>American Society of Zoologists</td>
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<tr>
<td>Department of Exercise Science and</td>
<td>Animal Behaviorists’ Society</td>
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<tr>
<td>Physical Education</td>
<td>Sigma Psi</td>
</tr>
<tr>
<td>Department of Family Resources and</td>
<td>American Association for Advancement of Science</td>
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<tr>
<td>Human Development</td>
<td>American Chemical Society</td>
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<tr>
<td>Department of Geography</td>
<td>American Society for Advancement of Science</td>
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<tr>
<td>Department of History</td>
<td>American Alliance for Health, Physical Education, Recreation and Dance</td>
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<tr>
<td>Department of Languages and Literature</td>
<td>American College of Sports Medicine</td>
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<tr>
<td>Department of Mathematics</td>
<td>American Physical Society</td>
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<td>Department of Microbiology</td>
<td>Arizona Society of Medical Technology</td>
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<td>Department of Military Science</td>
<td>Committee on Allied Health Education</td>
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<tr>
<td>M.S., Ph.D., Molecular and Cellular</td>
<td>National Association for Physical Education in Higher Education</td>
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<tr>
<td>Biology</td>
<td>North American Society for Sports History</td>
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<tr>
<td>Department of Philosophy</td>
<td>North American Society for Sports Psychology and Physical Activity</td>
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<td>Department of Philosophy</td>
<td>American Dietetic Association</td>
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## Academic Membership (continued)

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

<table>
<thead>
<tr>
<th>Unit or Program</th>
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<tbody>
<tr>
<td>College of Human Services</td>
<td>National Recreation and Park Association/American Association for Leisure and Recreation</td>
</tr>
<tr>
<td>Department of Recreation and Tourism Management</td>
<td>Council on Social Work Education</td>
</tr>
<tr>
<td>School of Management</td>
<td>American Assembly of Collegiate Schools of Business</td>
</tr>
<tr>
<td>all programs</td>
<td></td>
</tr>
</tbody>
</table>
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.

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.