
Minors, Certificates, and Interdisciplinary Studies

Interdisciplinary studies are available to students through an interdisciplinary degree, such as the Bachelor of Interdisciplinary Studies, or an extensive choice of minors or certificates that may be taken in conjunction with other majors. Since interdisciplinary studies provide skills that support employment in a rapidly changing workplace, students are encouraged to consider these options. Consult the academic advisor in the appropriate major about the impact of enrolling in a minor or certificate program.

MINORS

A minor is an approved, coherent concentration of academic study in a single discipline, involving substantially fewer hours of credit than a corresponding major. Most ASU colleges offer undergraduate minors in addition to majors; see the “[ASU Minors](#)” table, page 111.

Students in most majors may pursue one or more minors and, upon successful completion of the prescribed course work, have that accomplishment officially recognized on the ASU transcript at graduation if (1) the college/department of the minor officially certifies, through established verification procedures, that all requirements for the minor have been met and (2) the college (and, in certain colleges, the department) of the student’s major allows the official recognition of the minor.

A student wishing to pursue a specific minor should consult an academic advisor in the unit offering that minor to ensure that an appropriate set of courses is taken.

Note: Certain major and minor combinations may be deemed inappropriate either by the college or department of the major or minor. Inappropriate combinations include (but are not limited to) ones in which an excessive number of courses in the minor are simultaneously being used to fulfill requirements of the student’s major.

CERTIFICATES

Students may pursue some certificate programs along with a major and other certificate programs independently. Graduate certificates and postbaccalaureate certificates are available to students who already hold a bachelor’s degree. For more information, see the “[ASU Undergraduate Certificates](#)” table, page 113; “[ASU Postbaccalaureate Certificates](#)” table, page 114; and “[ASU Graduate Certificates](#)” table, page 114. Graduate certificates constitute graduate work; postbaccalaureate certificates are distinct from graduate certificates and are an extension of the undergraduate curriculum.

CONCURRENT AND DUAL DEGREES

Graduate students have the opportunity to pursue more than one degree at the same time as part of an organized

program. For more information, see the “Dual Degrees” table, page 499, and the *Graduate Catalog*.

INTERDISCIPLINARY STUDIES

Bachelor of Interdisciplinary Studies. For information about the Bachelor of Interdisciplinary Studies at ASU Main or ASU East, see “Bachelor of Interdisciplinary Studies,” page 116, or “Interdisciplinary Studies—B.I.S.,” page 601.

Energy Studies. An opportunity for instructional and research involvement in energy matters exists through at least two curricular paths: (1) general studies, which emphasize energy as an elective beyond the scope of a chosen major (for more information, call the coordinator of interdisciplinary studies in energy, at 480/965-4548); and (2) specific studies in the College of Architecture and Environmental Design, for those pursuing the Master of Architecture degree and the Master of Science degree in Building Design.

Environmental Studies. The Center for Environmental Studies encourages and coordinates interdisciplinary environment-related activities in the natural and social sciences within the university. The center sponsors special courses, conferences, and workshops on environmental topics. Drawing from faculty and students throughout the university, the center participates in research and community programs relating to environmental problem areas. It does not formally offer courses or a degree program. For more information, see “Center for Environmental Studies,” page 39.

Film Studies. The Film Studies Program exists not only to provide information and experience but also to serve as a means of creative expression for the student and as a useful subject and tool in teaching. The program is not designed to produce professional filmmakers, but it may provide practical preparation for students desiring further film study at other institutions.

Inquiries about this program should be directed to the Film Studies coordinator at 480/965-7644.

Gerontology. The Gerontology Program brings together faculty from several disciplines to teach courses related to adult development and aging, to collaborate on gerontological research, and to participate in projects of service to older adults.

A certificate at the postbaccalaureate level and an undergraduate minor are available in Gerontology. The certificate consists of 21 semester hours—nine hours of required course work and 12 hours of electives. The minor consists of 18 semester hours—six hours of required course work and 12 hours of electives. Courses related to aging are

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ASU Minors

| Minor | Administered By | Campus | Page |
|---|---|--------|------|
| African American Studies | African American Studies Program | Main | 323 |
| American Indian Studies | American Indian Studies Program | Main | 457 |
| American Studies | Department of American Studies | West | 657 |
| Anthropology | Department of Anthropology | Main | 327 |
| Applied Biological Sciences | East College | East | 600 |
| Applied Psychology | East College | East | 608 |
| Architectural Studies | School of Architecture | Main | 125 |
| Art History | School of Art | Main | 263 |
| Asian Languages (Chinese/Japanese) | Department of Languages and Literatures | Main | 378 |
| Astronomy | Department of Physics and Astronomy | Main | 412 |
| Biology | School of Life Sciences | Main | 332 |
| Business* | W. P. Carey School of Business | Main | 156 |
| Chemistry | Department of Chemistry and Biochemistry | Main | 338 |
| Chicana and Chicano Studies | Department of Chicana and Chicano Studies | Main | 342 |
| Communication | Hugh Downs School of Human Communication | Main | 461 |
| Communication Studies | Department of Communication Studies | West | 659 |
| Computational Mathematical Sciences | Department of Mathematics and Statistics | Main | 396 |
| Dance | Department of Dance | Main | 279 |
| Design Studies | School of Design | Main | 136 |
| Economics for Students Planning a Career in Law | Department of Economics | Main | 345 |
| English | Department of American Studies | West | 659 |
| English with a Concentration in Linguistics | Department of English | Main | 346 |
| English with a Concentration in Literature | Department of English | Main | 346 |
| Ethnic Studies | College of Arts and Sciences | West | 659 |
| Family and Human Development | Department of Family and Human Development | Main | 353 |
| Film and Video Studies | Department of Interdisciplinary Arts and Performance | West | 659 |
| Food and Nutrition Management | Department of Nutrition | East | 620 |
| French | Department of Languages and Literatures | Main | 378 |
| General Economics | Department of Economics | Main | 345 |
| Geography | Department of Geography | Main | 356 |
| Geological Sciences | Department of Geological Sciences | Main | 361 |
| German | Department of Languages and Literatures | Main | 378 |
| Gerontology | Gerontology Program | Main | 110 |
| | | West | 659 |
| History | Department of American Studies | West | 659 |
| | Department of History | Main | 364 |
| Human Nutrition | Department of Nutrition | East | 620 |
| Humanities | Interdisciplinary Humanities Program | Main | 370 |
| Interdisciplinary Arts and Performance | Department of Interdisciplinary Arts and Performance | West | 659 |
| Interior Design History | School of Design | Main | 125 |
| Italian | Department of Languages and Literatures | Main | 378 |
| Justice Studies | School of Justice Studies | Main | 468 |
| Kinesiology | Department of Kinesiology | Main | 373 |
| Landscape Studies | School of Planning and Landscape Architecture | Main | 146 |
| Life Sciences | Department of Life Sciences | West | 659 |
| Mass Communication | Walter Cronkite School of Journalism and Mass Communication | Main | 465 |
| | | West | 659 |
| Mathematics | Department of Integrative Studies | West | 659 |
| | Department of Mathematics and Statistics | Main | 396 |
| Microbiology | School of Life Sciences | Main | 402 |
| Music | School of Music | Main | 290 |
| Philosophy | Department of Integrative Studies | West | 659 |
| | Department of Philosophy | Main | 409 |
| Physics | Department of Physics and Astronomy | Main | 412 |

* This minor is for nonbusiness majors only.

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ASU Minors (continued)

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| Plant Biology | School of Life Sciences | Main | 419 |
| Political Science | Department of Political Science | Main | 424 |
| | Department of Social and Behavioral Sciences | West | 659 |
| Prelaw | College of Human Services | West | 659 |
| Psychology | Department of Psychology | Main | 428 |
| | Department of Social and Behavioral Sciences | West | 659 |
| Public Relations and Strategic Communications | Department of Communication Studies | West | 659 |
| Recreation Management | Department of Recreation Management and Tourism | Main | 473 |
| Religious Studies | College of Arts and Sciences | West | 659 |
| | Department of Religious Studies | Main | 432 |
| Russian | Department of Languages and Literatures | Main | 379 |
| Small Business | East College | East | 609 |
| Social and Behavioral Sciences | Department of Social and Behavioral Sciences | West | 659 |
| Sociocultural Anthropology | Department of Social and Behavioral Sciences | West | 659 |
| Sociology | Department of Social and Behavioral Sciences | West | 659 |
| | Department of Sociology | Main | 436 |
| Spanish | Department of American Studies | West | 659 |
| | Department of Languages and Literatures | Main | 379 |
| Special Events Management | Department of Recreation and Tourism Management | West | 659 |
| Speech and Hearing Science | Department of Speech and Hearing Science | Main | 439 |
| Statistics | Department of Mathematics and Statistics | Main | 393 |
| Theatre | Department of Theatre | Main | 297 |
| Tourism | Department of Recreation Management and Tourism | Main | 473 |
| Tourism Management | Department of Recreation and Tourism Management | West | 659 |
| Urban Planning | School of Planning and Landscape Architecture | Main | 147 |
| Wellness Foundations | Department of Exercise and Wellness | East | 614 |
| Women's Studies | Women's Studies Program | Main | 441 |
| | | West | 659 |

* This minor is for nonbusiness majors only.

taught throughout the university by faculty who are active contributors to research, theory, and public policy and practice. In addition, gerontology provides students with opportunities to gain practical experience in working with elderly people. A practicum, held at the Veterans Administration Hospital, is available to students who have completed some gerontology course work. Gerontology also helps students find rewarding internships in community programs for older adults. For more information, see "Gerontology Certificate Program," page 675, and "Gerontology," page 483, or refer to the current *Student Handbook in Gerontology*.

B.I.S. Concentration. A concentration in gerontology is available under the Bachelor of Interdisciplinary Studies (B.I.S.) degree, a program intended for the student who has academic interests that might not be satisfied with existing majors. Building on two academic concentrations (or one double concentration) and an interdisciplinary core, students in the B.I.S. program take active roles in creating their educational plans and defining their career goals. For more information, see "Bachelor of Interdisciplinary Studies," page 116.

Islamic Studies. The art, history, geography, and religion of the Islamic world are the subjects of several courses offered by departments in the Herberger College of Fine Arts and

the College of Liberal Arts and Sciences. For information, call the Department of Religious Studies at 480/965-7145.

Linguistics. Linguistics concentrations are offered in master's degree programs in the Departments of Anthropology, English, and Languages and Literatures through the Graduate College. Numerous linguistics courses are offered in these and other departments. For information, call the University Committee on Linguistics at 480/965-3168.

MILITARY OFFICER TRAINING

U.S. Air Force and U.S. Army ROTC units are active on the ASU campus. See "Department of Aerospace Studies," page 320, and "Department of Military Science," page 404, for more information.

Defense Activity for Nontraditional Education Support (DANTES). ASU is a participating institution with DANTES and is listed in the DANTES Directory of Independent Study. DANTES is an executive agency of the Department of Defense that provides educational support for the voluntary education programs of all services. The primary missions of DANTES are (1) to provide nationally recognized examination and certification programs as part of the voluntary education programs of military services and

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(2) to facilitate the availability of high-quality independent institutions for service men and women.

WESTERN INTERSTATE COMMISSION FOR HIGHER EDUCATION (WICHE)

For Arizona residents who wish to attend professional schools of dentistry, occupational therapy, optometry, osteopathy, and veterinary medicine in one of the other western states, Arizona has joined with other states to create the Western Interstate Commission for Higher Education. Through WICHE, qualified Arizona residents may attend

schools in other western states at essentially the same expense to the students as to residents of the state in which the school is located. Students must have maintained at least average grades in their preprofessional work and must have been legal residents of Arizona for at least the previous five years. Recipients are required to return to Arizona to practice or to repay a portion of the funds expended on their behalf.

For applications and more information, call 602/229-2500, or access the Web site at www.wiche.edu.

ASU Undergraduate Certificates

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| Advanced Business English Certificate* | College of Extended Education | Extended | 675 |
| African American Studies Certificate | African American Studies Program | Main | 323 |
| American Indian Studies Certificate | American Indian Studies Program | Main | 458 |
| American Public Policy Certificate | Department of Political Science | Main | 422 |
| Asian Pacific American Studies Certificate | Asian Pacific American Studies Program | Main | 459 |
| Asian Studies Certificate | Center for Asian Studies | Main | 363 |
| Business English Certificate* | College of Extended Education | Extended | 674 |
| Civic Education Certificate | Department of Political Science | Main | 423 |
| Classical Studies Certificate | Department of Languages and Literatures and Interdisciplinary Humanities Program | Main | 315 |
| College of Liberal Arts and Sciences Enriched Certificate | College of Liberal Arts and Sciences | Main | 314 |
| Dealership Management, Certificate in | W. P. Carey School of Business | Main | 161 |
| East Asian Studies Certificate | Center for Asian Studies | Main | 314 |
| English as a Second Language Certificate* | College of Extended Education | Extended | 675 |
| Ethics Certificate | Department of Philosophy | Main | 409 |
| Ethnic Studies, Certificate in | College of Arts and Sciences | West | 660 |
| Film and Video Studies, Certificate in | Department of Interdisciplinary Arts and Performance | West | 660 |
| Hazardous Materials and Waste Management Certificate | Department of Information and Management Technology | East | 639 |
| Health Physics Certificate | Pre-Health Professions Office | Main | 316 |
| History and Philosophy of Science Certificate | Department of Philosophy | Main | 409 |
| Human Performance Improvement Certificate* | College of Extended Education and the American Society of Training and Development | Extended | 675 |
| International Business Studies Certificate | W. P. Carey School of Business | Main | 171 |
| International Studies Certificate | Department of Political Science | Main | 423 |
| Islamic Studies Certificate | Department of Religious Studies | Main | 432 |
| Jewish Studies Certificate | Jewish Studies Committee | Main | 317 |
| KnowledgeNet Certificate* | College of Extended Education | Extended | 675 |
| Latin American Studies Certificate | Latin American Studies Center | Main | 317 |
| Maintenance Management Certificate* | College of Extended Education | Extended | 675 |
| Medieval and Renaissance Studies Certificate | Arizona Center for Medieval and Renaissance Studies | Main | 317 |
| Multimedia Writing and Technical Communication Certificate | East College | East | 618 |
| Nonprofit Youth and Human Service Leadership and Management; American Humanics Certificate | Department of Recreation Management and Tourism | Main | 474 |
| Professional Purchasing Certificate* | College of Extended Education | Extended | 675 |
| Public Administration and Public Management Certificate | School of Public Affairs | Main | 472 |
| Quality Analysis Certificate | W. P. Carey School of Business | Main | 161 |
| Russian and East European Studies Certificate | Russian and East European Studies Consortium | Main | 318 |

* This certificate is not for academic credit.

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| Scandinavian Studies Certificate | Department of Languages and Literatures | Main | 318 |
| Small Business and Entrepreneurship Certificate | W. P. Carey School of Business | Main | 161 |
| Southeast Asian Studies Certificate | Program for Southeast Asian Studies | Main | 318 |
| Spanish Language Court Interpreter Certificate* | College of Extended Education | Extended | 675 |
| Supervisory and Management Skills Certificate* | College of Extended Education | Extended | 675 |
| Symbolic Systems Certificate | Department of Philosophy | Main | 319 |
| Translation Certificate | Department of Languages and Literatures | Main | 379 |
| Women's Studies, Certificate in | Women's Studies Program | West | 660 |
| | | Main | 319 |
| Writing, Certificate in | Department of American Studies | West | 660 |
| | Department of English | Main | 347 |

* This certificate is not for academic credit.

ASU Postbaccalaureate Certificates

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|--|---|--------|------|
| Accountancy, Postbaccalaureate Certificate in* | Department of Accounting and Information Systems Management | West | 660 |
| Communication and Human Relations, Postbaccalaureate Certificate in* | Department of Communication Studies | West | 660 |
| Multimedia Writing and Technical Communication, Postbaccalaureate Certificate in | East College | East | 618 |
| Professional Accountancy, Postbaccalaureate Certificate in* | Department of Accounting and Information Systems Management | West | 660 |

* For more information, see the *ASU West Catalog*.

ASU Graduate Certificates

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|---|--|----------|------|
| Atmospheric Science Certificate* | College of Engineering and Applied Sciences and College of Liberal Arts and Sciences | Main | — |
| Geographic Information Science, Interdisciplinary Certificate in* | Graduate College | Main | — |
| Gerontology, Certificate in | College of Human Services | West | 660 |
| | Graduate College | Main | 483 |
| | | Extended | 675 |
| Indian Law Certificate* | College of Law | Main | — |
| Law, Science, and Technology, Certificate in* | College of Law | Main | — |
| Medieval Studies Certificate* | Arizona Center for Medieval and Renaissance Studies (ACMRS) | Main | — |
| Museum Studies Certificate* | Department of Anthropology | Main | — |
| Nonprofit Leadership and Management Certificate | College of Public Programs | Main | 456 |
| Post-Bachelor's Artist Diploma* | School of Music | Main | — |
| Post-Master's Nurse Practitioner Certificate* | College of Nursing | Main | — |
| Renaissance Studies Certificate* | ACMRS | Main | — |
| Scholarly Publishing Certificate* | Department of History | Main | — |
| Statistics, Certificate in* | Committee on Statistics and the Graduate College | Main | — |
| Transportation Systems Certificate | Committee on Transportation Systems and the Graduate College | Main | 484 |
| | | Extended | 675 |

* For more information, see the *Graduate Catalog*.