College of Liberal Arts and Sciences

Linell E. Cady, Th.D., Interim Dean
www.asu.edu/clas

Department of Aerospace Studies ............... 328
African American Studies Program ............ 330
Department of Anthropology .................... 333
Department of Biology ......................... 340
Department of Chemistry and Biochemistry ... 345
Department of Chicana and Chicano Studies ... 351
Computer Science ................................ 352
Economics ....................................... 353
Department of English ........................... 354
Department of Exercise Science and Physical Education ................. 360
Department of Family and Human Development ......................... 364
Department of Geography ....................... 366
Department of Geological Sciences .......... 372
Department of History .......................... 375
Interdisciplinary Humanities Program ......... 382
Department of Languages and Literatures .... 384
Department of Mathematics .................... 401
Department of Microbiology .................... 410
Department of Military Science ............... 413
Molecular and Cellular Biology ................ 415
Molecular Biosciences and Biotechnology .... 415
Department of Philosophy ...................... 417
Department of Physics and Astronomy ......... 420
Department of Plant Biology .................... 426
Department of Political Science ............... 430
Department of Psychology ..................... 437
Department of Religious Studies .............. 442
Department of Sociology ....................... 445
Department of Speech and Hearing Science ... 449
Women’s Studies Program ...................... 452

Palm Walk, a notable landmark on the ASU campus
Tim Tumble photo
PURPOSE

Like all major research universities, Arizona State University provides the means for undergraduates to acquire a liberal education, an education that broadens students’ understanding in the major areas of human knowledge while providing students with in-depth knowledge in their chosen areas of focus. While the professional schools and colleges can and do provide for important dimensions of a liberal education, the central academic setting for accomplishing this basic university purpose is the College of Liberal Arts and Sciences (CLAS). The college provides a particularly rich and varied set of opportunities for students to gain the kind of liberal education that helps to prepare them for a lifetime of continued learning and application of knowledge in a diverse and ever-changing world.

As a consequence of the wide range of subjects CLAS offers in the humanities, the natural sciences and mathematics, and the social and behavioral sciences, instruction is provided in a number of core areas for undergraduate students from all of the other colleges. Students with majors in business, education, engineering, nursing, and other professional colleges rely on CLAS for basic foundation courses. CLAS also offers the majority of courses meeting the General Studies requirement.

CLAS initiated and continues to participate actively with the Barrett Honors College. It also offers advising to undergraduates who are working out their undergraduate programs or are planning for graduate studies.

Most of the university faculty’s engagement in the discovery and creation of knowledge and its dissemination occurs in CLAS. As an integral part of this activity, CLAS offers a wide range of graduate training programs leading to a master’s or doctoral degree. For graduate degree application information, see the Graduate Catalog and contact either the Graduate College or the academic unit in which the degree of interest would be earned, the latter in order to receive detailed information on particular degree requirements.

ORGANIZATION

CLAS consists of 23 academic departments, several interdisciplinary programs, seven centers, and several research institutes and laboratories. The college offers 37 programs leading to a bachelor’s degree, 28 programs leading to a master’s degree, 22 programs leading to a doctoral degree, and interdisciplinary graduate programs in cooperation with other colleges. Undergraduate customized interdisciplinary degrees are also available in the college.

For more information, access the college’s Web site at www.asu.edu/clas.

ADMISSION

Any entering ASU student who has met the minimum university entrance requirements can be admitted to CLAS. Students with fewer than 50 earned hours of credit can, if they wish, be admitted as “no preference” students. Students with 50 or more hours must declare a major to be accepted into the college.

Any student with a cumulative GPA of at least 2.00 who is currently registered in good standing in another college at ASU and who wishes to major in a subject offered by CLAS and to follow a program of study in the major may transfer into the college. (Students wishing to transfer into the majors of Computer Science or Economics must have an ASU cumulative GPA of at least 2.50.) The student transfers by applying and being initially advised in the Office for Academic Programs in SS 111. Students admitted from other ASU colleges are under mandatory advising during the first semester and must take courses leading directly to a degree in CLAS. Failure to follow mandated advice on course selection can result in enrollment and registration problems, including cancellation and holds.

Transfer Students. The university standards for evaluation of transfer credit are listed under “Transfer Credit,” page 57. All students who meet the university standards are admissible to CLAS, but students desiring to major in either Computer Science or Economics must have transfer GPAs of at least 2.50. Transfer students are urged to contact the relevant academic department or the Office for Academic Programs in SS 111, to ensure a smooth transition to CLAS. Students who have transferred courses from institutions other than Arizona community colleges must have their transcripts evaluated by an advisor in SS 111. Students who have attended only Arizona community colleges have evaluations performed in the department of the major.

Courses transferred from two-year (community) colleges are accepted as lower-division credit only. Students are urged to choose their community college courses carefully, in view of the fact that a minimum of 45 semester hours of work taken at the university must be upper-division credit (see “Community Colleges,” page 57).

“Undecided” or “Undeclared” Majors. Students in CLAS are not required to select a major upon entering the college as freshmen or at any time thereafter until the semester in which 60 semester hours are earned. Until such “no preference” students have chosen a major, they are advised through Cross-College Advising Services, in the Undergraduate Academic Services Building. It is important to consult an academic advisor before any enrollment activity. Before or during the semester in which they earn 60 semester hours, students must select their major and transfer into the appropriate department.

Note: Students who wish to enter a program of study that has a rigidly structured curriculum should be aware that delay in choosing a major could result in added time and cost in the completion of requirements.

ADVISING

All students are urged to seek advising in the appropriate college unit before registration. Students must follow the calendar published in the Schedule of Classes each semester for information regarding enrollment, adding/dropping classes, and withdrawals.

In addition to information provided by an advisor, students must read the requirements for university General Studies, college graduation, and major degree requirements in this edition of the ASU General Catalog. See “General Studies,” page 78, “University Graduation Requirements,” page 74, “CLAS Graduation Requirements,” page 320, and the section of the department offering the major. The ASU General Catalog is the governing source for all degree requirements.
**Regular Advising.** All students are strongly urged to seek advising in the appropriate college unit before registration.

**Advising Locations.** CLAS students should seek routine advising at the locations shown in the “Advising Locations” table, on this page.

The Office for Academic Programs, in SS 111, is the central resource center for academic information in the college. Requests from students, departmental advisors, and faculty for clarification of rules, procedures, and advising needs of the college and university should be directed to that office.

### Advising Locations

<table>
<thead>
<tr>
<th>Student</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Declared majors</td>
<td>Department of major</td>
</tr>
<tr>
<td>No preference; no preference, prelaw</td>
<td>UASB (480/965-4464)</td>
</tr>
<tr>
<td>No preference, premedical</td>
<td>LSC 206C (480/965-2365)</td>
</tr>
</tbody>
</table>

**Mandatory Advising.** The following categories of Liberal Arts and Sciences students must receive advising and must be cleared on the Mandatory Advising Computer System (MACS) before their classes are scheduled:

1. students in their first semester at ASU;
2. students on probation;
3. students with a cumulative GPA of less than 2.00;
4. students who have admissions deficiencies;
5. other students with “special admissions” status; and
6. students who have been disqualified (these students are allowed to attend ASU summer and winter sessions only and must be advised in the Office for Academic Programs in SS 111).

Students in the above mandatory advising categories should consult an advisor in the appropriate advising location listed in the previous section. Students with admission deficiencies are carefully monitored to ensure that they take courses that eliminate their deficiencies. Students are encouraged to check their mandatory advising status each semester before attempting registration transactions.

**Advising for Preprofessional Programs.** Special advising is available for students planning to enter the fields listed in the “Advising for Preprofessional Programs” table, on this page. The professional programs shown in the table are not majors in themselves; that is, there are no majors called “premedical,” “prelaw,” etc. In each program, the student must eventually select an established major in CLAS or in one of the other colleges.

### DEGREES

**Majors.** Programs leading to the B.A. and B.S. degrees are offered by CLAS, with majors in the subjects listed in the “College of Liberal Arts and Sciences Baccalaureate Degrees and Majors” table, page 318. Each major is administered by the academic department indicated.

### ASU EXTENDED CAMPUS

The College of Extended Education was created in 1990 to extend the resources of ASU throughout Maricopa County, the state, and the region. The College of Extended Education is a university-wide college that oversees the ASU Extended Campus and forms partnerships with other ASU colleges to meet the instructional and informational needs of a diverse community.

The ASU Extended Campus goes beyond the boundaries of the university’s three physical campuses to provide access to quality academic credit and degree programs for working adults through flexible schedules; a vast network of off-campus sites; classes scheduled days, evenings, and weekends; and innovative delivery technologies including television, the Internet, and independent learning. The Extended Campus also offers a variety of professional continuing education and community outreach programs.

For more information, see “ASU Extended Campus,” page 683, or access the Web site at www.asu.edu/xed.
<table>
<thead>
<tr>
<th>Major</th>
<th>Degree</th>
<th>Concentration</th>
<th>Administered By</th>
</tr>
</thead>
<tbody>
<tr>
<td>African American Studies</td>
<td>B.A.</td>
<td>Humanities/arts, politics and society, social and behavioral sciences</td>
<td>African American Studies Program</td>
</tr>
<tr>
<td>Anthropology</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Anthropology</td>
</tr>
<tr>
<td>Asian Languages (Chinese/Japanese)</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td>Biochemistry</td>
<td>B.S.</td>
<td>—</td>
<td>Department of Chemistry and Biochemistry</td>
</tr>
<tr>
<td>Biology</td>
<td>B.S.</td>
<td>Biology and society</td>
<td>Department of Biology</td>
</tr>
<tr>
<td>Chemistry</td>
<td>B.A., B.S.</td>
<td>—</td>
<td>Department of Chemistry and Biochemistry</td>
</tr>
<tr>
<td>Chicana and Chicano Studies</td>
<td>B.A.</td>
<td>Humanities/cultural sciences, social sciences/policy</td>
<td>Department of Chicana and Chicano Studies</td>
</tr>
<tr>
<td>Clinical Laboratory Sciences</td>
<td>B.S.</td>
<td>—</td>
<td>Department of Microbiology</td>
</tr>
<tr>
<td>Computer Science</td>
<td>B.S.(^1), B.S.(^2)</td>
<td>—</td>
<td>Department of Computer Science and Engineering</td>
</tr>
<tr>
<td>Conservation Biology</td>
<td>B.S.</td>
<td>—</td>
<td>Department of Biology</td>
</tr>
<tr>
<td>Economics</td>
<td>B.A., B.S.(^3)</td>
<td>—</td>
<td>Department of Economics</td>
</tr>
<tr>
<td>English</td>
<td>B.A.</td>
<td>Linguistics, literature</td>
<td>Department of English</td>
</tr>
<tr>
<td>Exercise Science/Physical Education</td>
<td>B.S.</td>
<td>Exercise science, physical education</td>
<td>Department of Exercise Science and Physical Education</td>
</tr>
<tr>
<td>Family and Human Development</td>
<td>B.S.</td>
<td>Family studies/child development</td>
<td>Department of Family and Human Development</td>
</tr>
<tr>
<td>French</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td>Geography</td>
<td>B.A., B.S.</td>
<td>Meteorology-climatology, urban studies</td>
<td>Department of Geography</td>
</tr>
<tr>
<td>Geological Sciences</td>
<td>B.S.</td>
<td>—</td>
<td>Department of Geological Sciences</td>
</tr>
<tr>
<td>German</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td>History</td>
<td>B.A.</td>
<td>—</td>
<td>Department of History</td>
</tr>
<tr>
<td>Humanities</td>
<td>B.A.</td>
<td>—</td>
<td>Interdisciplinary Humanities Program</td>
</tr>
<tr>
<td>Integrated Studies</td>
<td>B.A., B.S.</td>
<td>—</td>
<td>College of Liberal Arts and Sciences</td>
</tr>
<tr>
<td>Italian</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td>Mathematics</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Mathematics</td>
</tr>
<tr>
<td></td>
<td>B.S.</td>
<td>Computational mathematical sciences</td>
<td>Department of Mathematics</td>
</tr>
<tr>
<td>Microbiology</td>
<td>B.S.</td>
<td>—</td>
<td>Department of Microbiology</td>
</tr>
<tr>
<td>Molecular Biosciences/Biotechnology</td>
<td>B.S.</td>
<td>—</td>
<td>Departments of Microbiology and Plant Biology</td>
</tr>
<tr>
<td>Philosophy</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Philosophy</td>
</tr>
<tr>
<td>Physics</td>
<td>B.S.</td>
<td>—</td>
<td>Department of Physics and Astronomy</td>
</tr>
<tr>
<td>Plant Biology</td>
<td>B.S.</td>
<td>Environmental science and ecology, plant biochemistry and molecular biology, urban horticulture</td>
<td>Department of Plant Biology</td>
</tr>
<tr>
<td>Political Science</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Political Science</td>
</tr>
<tr>
<td></td>
<td>B.S.</td>
<td>Public policy advocacy and lobbying, public policy analysis</td>
<td>Department of Political Science</td>
</tr>
<tr>
<td>Psychology</td>
<td>B.A., B.S.</td>
<td>—</td>
<td>Department of Psychology</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Religious Studies</td>
</tr>
<tr>
<td>Russian</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td>Sociology</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Sociology</td>
</tr>
<tr>
<td>Spanish</td>
<td>B.A.</td>
<td>—</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td>Speech and Hearing Science</td>
<td>B.S.</td>
<td>—</td>
<td>Department of Speech and Hearing Science</td>
</tr>
<tr>
<td>Women’s Studies</td>
<td>B.A.</td>
<td>—</td>
<td>Women’s Studies Program</td>
</tr>
</tbody>
</table>

\(^1\) The department is in the College of Engineering and Applied Sciences, which also offers this major, with different requirements.

\(^2\) This major requires more than 120 semester hours to complete.

\(^3\) The department is in the College of Business, which also offers this major, with different requirements.
UNIVERSITY GRADUATION REQUIREMENTS

In addition to fulfilling college and major requirements, students must meet all university graduation requirements. For complete information, see “University Graduation Requirements,” page 74.

General Studies Requirement

All students enrolled in a baccalaureate degree program must satisfy a university requirement of a minimum of 35 hours of approved course work in General Studies, as described in “General Studies,” page 78. Note that all three General Studies awareness areas are required. Consult your advisor for an approved list of courses.

General Studies courses are listed in the “General Studies Courses” table, page 81, in the course descriptions, in the Schedule of Classes, and in the Summer Sessions Bulletin.

COLLEGE DEGREE REQUIREMENTS

CLAS degree requirements are more extensive than the General Studies requirement. Additional course work in the humanities, natural sciences and mathematics, and social and behavioral sciences is required. Students are encouraged to consult with an academic advisor in planning a program to ensure that they meet all necessary requirements.

To graduate from CLAS, a student must satisfy college requirements in addition to university General Studies requirements. These requirements consist of major requirements which involve concentrated course work in a selected field; and CLAS graduation requirements which ensure that the student demonstrates proficiency in a second language while exposing the student to other liberal arts and sciences outside the major field.

I. Major Requirements. Each student is required to select a major from among the fields of study offered by CLAS. The requirements for completion of the major are described under departmental listings.

A. The major department may require up to 45 semester hours of course work. The minimum is 30 hours. A maximum of 15 additional hours may be required in related courses and prerequisites. No more than 60 semester hours of course work may be required to complete the major, related courses, and prerequisites. Some departments require calculus-level mathematics; up to five of these semester hours may be excluded from the 60-hour maximum because they satisfy the mathematics proficiency requirement. A minimum of 12 upper-division hours in the major must be taken in residence at ASU Main.

B. No credit is granted toward fulfilling major or minor requirements in any upper-division course in that subject field unless the grade in that course is at least a “C.” In CLAS, the assignment of a grade of “Y” indicates a level of performance that would have resulted in a grade of at least “C” had the normal grading scheme been used.

In addition, each major in CLAS requires students to earn a “C” minimum in the math course used to meet the General Studies math requirement. Please see the individual departments for other minimum grade requirements.

C. Major fields of study are classified into the following three divisions:

1. Humanities:
   - African American Studies (AFH)
   - Asian Languages (Chinese/Japanese) (CHI/JPN)
   - Chicana and Chicano Studies (CSH)
   - English (Linguistics students must take two upper-division literature or film courses to meet CLAS graduation requirements in Humanities.) (ENG)
   - French (FRE)
   - German (GER)
   - Humanities (HUM)
   - Italian (ITA)
   - Philosophy (HPS, PHI)
   - Religious Studies (REL)
   - Russian (Only meets CLAS graduation requirements in Humanities if at least two upper-division literature or civilization courses are taken.) (RUS)
   - Spanish (SPA)
   - Women’s Studies (WSH)

2. Natural sciences and mathematics:
   - Biochemistry (BCH)
   - Biology (BIO)
   - Chemistry (CHM)
   - Clinical Laboratory Sciences (CLS)
   - Computer Science (CSE)
   - Conservation Biology (BIO)
   - Geological Sciences (GLG)
   - Mathematics (MAT)
   - Microbiology (MIC)
   - Molecular Biosciences/Biotechnology (MBB)
   - Physics (AST, PHS, PHY)
   - Plant Biology (PLB)

3. Social and behavioral sciences:
   - African American Studies (AFS)
   - Anthropology (ASB, ASM)
   - Chicana and Chicano Studies (CSS)
   - Economics (ECN)
   - Exercise Science/Physical Education (Students majoring in this field must satisfy the CLAS graduation requirements in all three divisions.) (EPE)
   - Family and Human Development (Students majoring in this field must satisfy the CLAS graduation requirements in all three divisions.) (CDE, FAS)
   - Geography (GCU)
   - History (HST)
   - Political Science (POS)
   - Psychology (PGS, PSY)
   - Sociology (SOC)
   - Speech and Hearing Science (Students majoring in this field must satisfy the CLAS graduation requirements in all three divisions. (SHS)
   - Women’s Studies (WST)
II. CLAS Graduation Requirements. The purpose of the CLAS graduation requirements is to ensure that the student is introduced to disciplines outside the division of the major. A list of major fields and their respective divisions is given under I.C.

Unless the major field notes otherwise in I.C., students are considered to have fulfilled the CLAS graduation requirements in the division of the major.

Students majoring in Exercise Science/Physical Education, Family and Human Development, and Speech and Hearing Science must satisfy CLAS graduation requirements in social behavioral sciences as well as in the other two divisions. Students majoring in African American Studies or Chicana and Chicano Studies satisfy either the CLAS graduation requirements in the humanities or the social and behavioral sciences, depending upon their concentrations.

Students majoring in Anthropology, Geography, or Psychology may not use ASM courses in the case of Anthropology majors, GPH courses in the case of Geography majors, or PSY courses in the case of Psychology majors to satisfy the CLAS graduation requirements in the natural sciences and mathematics.

Note: Courses used to fill the university General Studies requirement may not be used to fill CLAS graduation requirements in the humanities, social and behavioral sciences, and the natural sciences and mathematics.

A. Humanities (six semester hours). Each student is required to complete two upper-division courses of at least three semester hours each. Course prefixes are identified in the following section.

Course prefixes for the CLAS graduation requirement in the Humanities:
1. AFH (African American Studies Program)
2. CSH (Department of Chicana and Chicano Studies)
3. ENG (Department of English; any literature course, including ENG 200 and 218)
4. CHI, FLA, FRE, GER, GRK, HEB, ITA, JPN, LAT, POR, RUS, SCA, SPA (Department of Languages and Literatures; FLA 150 or any literature or “civilization” course at the 200 level or above that is not also used to meet the language proficiency requirement)
5. HUM (Interdisciplinary Humanities Program)
6. HPS, PHI (Department of Philosophy)
7. REL (Department of Religious Studies)
8. WSH (Women’s Studies Program)

B. Natural sciences and mathematics (six semester hours). Each student is required to complete two courses of at least three semester hours each.

Course prefixes for the CLAS graduation requirements in the natural sciences and mathematics:
1. ASM (Department of Anthropology)
2. BIO (Department of Biology)
3. BCH, CHM (Department of Chemistry and Biochemistry)
4. CSE (Department of Computer Science and Engineering)
5. GPH (Department of Geography)
6. GLG (Department of Geological Sciences)
7. MAT, STP (Department of Mathematics)
   Note: Only mathematics courses for which MAT 117 or a higher-level mathematics course is a prerequisite may be used to satisfy the CLAS graduation requirements in Natural Sciences and Mathematics.
8. MIC (Department of Microbiology)
9. AST, PHS, PHY (Department of Physics and Astronomy)
10. PLB, MBB (Department of Plant Biology)
11. PSY (Department of Psychology)

C. Social and behavioral sciences (six semester hours). Each student is required to complete two upper-division courses of at least three semester hours each. Course prefixes of approved courses are identified in the following section.

Course prefixes for the CLAS graduation requirements in the social and behavioral sciences:
1. AFS (African American Studies Program)
2. ASB (Department of Anthropology)
3. CSS (Department of Chicana and Chicano Studies)
4. ECN (Department of Economics)
5. GCU (Department of Geology)
6. GLG (Department of Geology)
7. HST (Department of History)
8. PGS (Department of Political Science)
9. SOC (Department of Sociology)
10. WST (Women’s Studies Program)
   Note: Before the 1999–2000 edition of the General Catalog, all Women’s Studies courses were listed as WST. Consult an advisor to verify if an earlier WST course should be considered WSH or WST.

D. Bridge course requirement (three semester hours). Each student is required to complete one CLAS bridge course of at least three semester hours. Bridge courses contain substantial content that bridges at least two of the areas of inquiry noted in sections A., B., and C. Bridge courses cannot be double counted to fill other requirements for the university or college. If a student wishes to use a bridge course listed below to fill a humanities, social science, or natural science requirement, he or she must select another course from the list to fill the bridge requirement.

The following courses have been approved as CLAS bridge courses (see an advisor for any additional bridge courses approved after the General Catalog was published):

   BIO 311 Biology and Society
   BIO 319 Environmental Science
   BIO 427 Fire
III. General Electives. Most CLAS majors can meet all of the above requirements with fewer than 120 semester hours required for graduation. The remaining hours are general electives that may be selected from any of the departments of CLAS and from the offerings of the other colleges.

Program of Study/Declaration of Graduation. The program of study/declaration of graduation, which is required by university regulations during the semester in which an undergraduate earns the 87th hour, must be filed and approved at least two weeks before the preregistration period for the subsequent semester. Students are expected to follow the approved program of study or to receive early college approval for proposed changes to the program of study. Students should contact the Office for Academic Programs, in SS 111, regarding college graduation rules and deadlines. Deadlines for filing a program of study/declaration of graduation after enrolling in the 87th hour are March 1 and October 1 of each year. Students with 87 hours must have a college-approved program of study/declaration of graduation before registering for the next semester.

Credit Requirement. All candidates for graduation in the B.A. and B.S. degree curricula are required to complete at least 120 semester hours, of which at least 45 hours must consist of upper-division courses. A minimum ASU cumulative GPA of 2.00 is required for graduation.

Course Load. The normal course load is 15–16 semester hours. First-semester freshmen and entering transfer students are not permitted to register for more than 18 semester hours in the initial semester. Other students who wish to register for more than 18 hours must have a GPA of at least 3.00 and must file a petition in the Office for Academic Programs, in SS 111, before registration. Any petition for an overload in excess of 21 hours must be presented to the Standards Committee of the college. No student should assume that his or her petition will be granted for overload.

SPECIAL CREDIT OPTIONS

Pass/Fail Grade Option. The pass/fail grade option is intended to broaden the education of Liberal Arts and Sciences undergraduates by encouraging them to take advanced courses outside their specialization. A mark of “P” contributes to the student’s earned hours but does not affect the GPA. A failing grade is computed into the GPA.

Only CLAS students with at least 60 semester hours may take courses under the pass/fail option. The option may be used under the following conditions:

1. enrollment for pass/fail needs the approval of the instructor and the college;
2. enrollment under this option must be indicated during registration and may not be changed after the late registration period; and
3. a maximum of 12 hours taken for pass/fail may be counted toward graduation.

Students may not enroll under the pass/fail option in the following courses:

1. those taken to satisfy the second language or First-Year Composition requirements;
2. those in the student’s major, minor, or certificate program;
3. those counted toward or required to supplement the major;
4. those counted as 499 Individualized Instruction;
5. those taken for honors credits; or
6. those counted toward satisfying the CLAS graduation requirements or the General Studies requirement.
## College of Liberal Arts and Sciences Graduate Degrees and Majors

<table>
<thead>
<tr>
<th>Major</th>
<th>Degree</th>
<th>Concentration</th>
<th>Administered By</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Anthropology</strong></td>
<td>M.A.¹</td>
<td>Archaeology, bioarchaeology, linguistics, medical anthropology, museum studies, physical anthropology, social-cultural anthropology</td>
<td>Department of Anthropology</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>Archaeology, physical anthropology, social-cultural anthropology</td>
<td>Department of Anthropology</td>
</tr>
<tr>
<td><strong>Asian Languages and Civilizations—Chinese/Japanese</strong></td>
<td>M.A.</td>
<td>—</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td><strong>Biology</strong>²</td>
<td>M.S., Ph.D.</td>
<td>Ecology</td>
<td>Department of Biology</td>
</tr>
<tr>
<td><strong>Chemistry</strong></td>
<td>M.S., Ph.D.</td>
<td>Analytical chemistry, biochemistry, geochemistry, inorganic chemistry, organic chemistry, physical chemistry, solid-state chemistry</td>
<td>Department of Chemistry and Biochemistry</td>
</tr>
<tr>
<td><strong>Communication Disorders</strong></td>
<td>M.S.</td>
<td>—</td>
<td>Department of Speech and Hearing Science</td>
</tr>
<tr>
<td><strong>Creative Writing</strong></td>
<td>M.F.A.³</td>
<td>—</td>
<td>Creative Writing Committee</td>
</tr>
<tr>
<td><strong>English</strong></td>
<td>M.A.</td>
<td>Comparative literature, English linguistics, literature and language, rhetoric and composition</td>
<td>Department of English</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>Literature, rhetoric/composition and linguistics</td>
<td>Department of English</td>
</tr>
<tr>
<td><strong>Exercise Science</strong></td>
<td>Ph.D.³</td>
<td>Biomechanics, motor behavior/sport psychology, physiology of exercise</td>
<td>Committee on Exercise Science</td>
</tr>
<tr>
<td><strong>Exercise Science/Physical Education</strong></td>
<td>M.S.</td>
<td>—</td>
<td>Department of Exercise Science and Physical Education</td>
</tr>
<tr>
<td><strong>Family and Human Development</strong></td>
<td>M.S.</td>
<td>Family studies</td>
<td>Department of Family and Human Development</td>
</tr>
<tr>
<td><strong>Family Science</strong>²</td>
<td>Ph.D.</td>
<td>Marriage and family therapy</td>
<td>Department of Family and Human Development</td>
</tr>
<tr>
<td><strong>French</strong></td>
<td>M.A.</td>
<td>Comparative literature, linguistics, literature</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td><strong>Geography</strong></td>
<td>M.A., Ph.D.</td>
<td>—</td>
<td>Department of Geography</td>
</tr>
<tr>
<td><strong>Geological Sciences</strong></td>
<td>M.S., Ph.D.</td>
<td>—</td>
<td>Department of Geological Sciences</td>
</tr>
<tr>
<td><strong>German</strong></td>
<td>M.A.</td>
<td>Comparative literature, language and culture, literature</td>
<td>Department of Languages and Literatures</td>
</tr>
<tr>
<td><strong>History</strong></td>
<td>M.A.</td>
<td>Asian history, British history, European history, Latin American history, public history, U.S. history, U.S. Western history</td>
<td>Department of History</td>
</tr>
<tr>
<td></td>
<td>Ph.D.</td>
<td>Asian history, British history, European history, Latin American history, U.S. history</td>
<td>Department of History</td>
</tr>
<tr>
<td><strong>Humanities</strong></td>
<td>M.A.</td>
<td>—</td>
<td>Graduate Committee on Humanities</td>
</tr>
<tr>
<td><strong>Materials Science</strong>³</td>
<td>M.S.</td>
<td>—</td>
<td>Committee on Science and Engineering of Materials</td>
</tr>
<tr>
<td><strong>Mathematics</strong></td>
<td>M.A., Ph.D.</td>
<td>—</td>
<td>Department of Mathematics</td>
</tr>
<tr>
<td><strong>Microbiology</strong></td>
<td>M.S., Ph.D.</td>
<td>—</td>
<td>Department of Microbiology</td>
</tr>
<tr>
<td><strong>Molecular and Cellular Biology</strong></td>
<td>M.S., Ph.D.</td>
<td>—</td>
<td>Interdisciplinary Committee on Molecular and Cellular Biology</td>
</tr>
</tbody>
</table>

¹ Graduate students in the School of Justice Studies and the Department of Anthropology are able to receive a concurrent M.S. degree in Justice Studies and M.A. degree in Anthropology.

² This major has formalized concentration(s); other areas of study are available.

³ This program is administered by the Graduate College.
COLLEGE OF LIBERAL ARTS AND SCIENCES

College of Liberal Arts and Sciences Graduate Degrees and Majors (continued)

<table>
<thead>
<tr>
<th>Major</th>
<th>Degree</th>
<th>Concentration</th>
<th>Administered By</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural Science</td>
<td>M.N.S.</td>
<td>Biology, Chemistry, Geological Sciences, Mathematics, Microbiology, Physics, Plant biology</td>
<td>Department of Biology, Department of Chemistry and Biochemistry, Department of Geological Sciences, Department of Mathematics, Department of Microbiology, Department of Physics and Astronomy, Department of Plant Biology</td>
</tr>
<tr>
<td>Philosophy</td>
<td>M.A., Ph.D.</td>
<td>—</td>
<td>Department of Philosophy</td>
</tr>
<tr>
<td>Physical Education</td>
<td>M.P.E.</td>
<td>—</td>
<td>Department of Exercise Science and Physical Education</td>
</tr>
<tr>
<td>Physics</td>
<td>M.S., Ph.D.</td>
<td>—</td>
<td>Department of Physics and Astronomy</td>
</tr>
<tr>
<td>Plant Biology (^2)</td>
<td>M.S., Ph.D.</td>
<td>Ecology, photosynthesis</td>
<td>Department of Plant Biology</td>
</tr>
<tr>
<td>Political Science</td>
<td>M.A., Ph.D.</td>
<td>American politics, comparative politics, international relations, political theory</td>
<td>Department of Political Science</td>
</tr>
<tr>
<td>Psychology</td>
<td>Ph.D.</td>
<td>Behavioral neuroscience, clinical psychology, cognitive/behavioral systems, developmental psychology, environmental psychology, quantitative research methods, social psychology</td>
<td>Department of Psychology</td>
</tr>
<tr>
<td>Religious Studies</td>
<td>M.A.</td>
<td>—</td>
<td>Department of Religious Studies</td>
</tr>
<tr>
<td>Science and Engineering of Materials</td>
<td>Ph.D. (^3)</td>
<td>High-resolution nanostructure analysis, solid-state device materials design</td>
<td>Committee on Science and Engineering of Materials</td>
</tr>
<tr>
<td>Sociology</td>
<td>M.A., Ph.D.</td>
<td>—</td>
<td>Department of Sociology</td>
</tr>
<tr>
<td>Spanish</td>
<td>M.A.</td>
<td>Comparative literature, language and culture, linguistics, literature, Cultural studies, literature</td>
<td>Department of Languages and Literatures, Department of Languages and Literatures</td>
</tr>
<tr>
<td>Speech and Hearing Science</td>
<td>Ph.D. (^3)</td>
<td>Developmental neurolinguistic disorders, neuroauditory processes, neurogerontologic communication disorders</td>
<td>Committee on Speech and Hearing Science</td>
</tr>
<tr>
<td>Statistics</td>
<td>M.S. (^3)</td>
<td>—</td>
<td>Committee on Statistics</td>
</tr>
<tr>
<td>Teaching English as a Second Language</td>
<td>M.TESL</td>
<td>—</td>
<td>Department of English</td>
</tr>
</tbody>
</table>

\(^1\) Graduate students in the School of Justice Studies and the Department of Anthropology are able to receive a concurrent M.S. degree in Justice Studies and M.A. degree in Anthropology.

\(^2\) This major has formalized concentration(s); other areas of study are available.

\(^3\) This program is administered by the Graduate College.

**Audit Grade Option.** A student may choose to audit a course in which he or she attends regularly scheduled class sessions but earns no credit. The student should obtain the instructor’s approval before registering for the course. For more information, see “Grading System,” page 67.

**Note:** This grade option may not be changed after the drop/add period.

**Independent Learning.** Study by independent learning is not a normal part of a degree program; special circumstances must exist for a resident student to take independent learning courses. Any enrollment in such courses must have the prior approval of the college.

**ACADEMIC STANDARDS**

The standards for GPA and the terms of probation, disqualification, reinstatement, and appeal are identical to those of the university as set forth under “Retention and Academic Standards,” page 71, except that the disqualified student in CLAS is suspended for at least two regular semesters at the university. When students are placed on probation, one of three things can happen:

1. the student may raise his or her cumulative GPA to a 2.00 or better by taking new classes and be removed from probation after the fall or spring semester;
2. the student may receive the required semester GPA, but not raise the cumulative GPA to the 2.00 level in which case, the student may continue on probation,
earning the required semester GPA, for as many semesters as it takes to raise the cumulative GPA above 2.00; or

3. the student may fail to achieve the required semester GPA and be disqualified.

Students with cumulative GPAs of less than 2.00 who leave the university for a semester or more are not automatically readmitted. Such students, as well as all disqualified students, should contact the Office for Academic Programs in SS 111, regarding procedures and guidance for reinstatement and returning to good standing. By following recommendations and meeting established standards for summer school work or course work at other institutions, the possibility of successful reinstatement is enhanced. Academic discipline is one of the functions of the Office for Academic Programs. All students having academic difficulties of any kind should contact this office. Also available in this office is information on policies and procedures of the college on academic honesty, student grievances with respect to grades, and various petitions regarding college standards and graduation requirements.

Academic honesty is expected of all students in all examinations, papers, academic transactions, and records. The possible sanctions include, but are not limited to, appropriate grade penalties, loss of registration privileges, disqualification, and dismissal.

STUDENT RESPONSIBILITIES

Any student enrolling in courses offered by CLAS is expected to follow the rules and deadlines specified in this catalog and the current Schedule of Classes. Students are urged to meet with their departmental academic advisors before registration. Students with additional questions or problems are also urged to meet with advisors in the Office for Academic Programs, in SS 111, regarding the academic rules of the college and the university.

SPECIAL PROGRAMS

Barrett Honors College. CLAS works closely with the Craig and Barbara Barrett Honors College, which affords qualified undergraduates opportunities for enhanced educational experiences. For a complete description of requirements and opportunities, see “The Craig and Barbara Barrett Honors College,” page 112.

Integrated Studies. An Integrated Studies major leading to the B.A. or B.S. degree provides students of outstanding ability in the humanities, natural sciences and mathematics, and social and behavioral sciences opportunities to pursue courses of studies that cut across departmental boundaries and focus on specific topics or problem areas. Completion of 32 semester hours at ASU with a GPA of at least 3.25 and three letters of recommendation from ASU faculty members are required for admission. For more information about degree requirements, visit the Office for Academic Programs in SS 111.

Washington Semester Program. Students have a variety of opportunities for practicum and internship experiences that enable them to meld classroom learning with practical application. Among the several individual departmental programs that provide internships for majors, the Department of Political Science is the ASU sponsor of the Washington Semester Program. The program provides students a one-semester opportunity to study in Washington, D.C., through any one of several programs sponsored by the American University. The program is available to outstanding juniors or seniors and requires careful planning with an academic advisor early in the student’s career. For more information, call the Department of Political Science at 480/965-6551.

Military Officer Training. The Departments of Aerospace Studies and Military Science offer programs leading to commissions in the armed forces, but they do not offer majors or minors. For more information, see the appropriate department descriptions in this catalog.

Certificate Programs and Areas of Emphasis

Certificates are available from numerous units in CLAS, and one collegewide Enriched College Degree Certificate is available to any major in the college as shown in the “CLAS Certificates” table, page 325. Areas of emphasis are also available in some of the same subjects (e.g., Latin American Studies).

Enriched College Degree. CLAS offers an Enriched College Degree Certificate, available to any major within the college.

The Enriched College Degree Certificate consists of a minimum of 15 semester hours of a minimum of “C” grade credit. The certificate consists of

1. a theme track composed of a three-course sequence outside the student’s major, characterized by an identifiable theme of intellectual relevance for students;

2. a bridge course selected to address the relationships among areas of inquiry and means of acquiring knowledge; and

3. an upper-division course in spoken English to provide a meaningful opportunity for substantive oral presentations.

For more information, visit the CLAS Office for Academic Programs, in SS 111, or call 480/965-6506.


Asian Studies. An Asian Studies Certificate is offered through the Center for Asian Studies.

Students must complete two years (20 semester hours) of an Asian language plus 30 additional hours of Asian-area studies courses selected from core Asian studies courses or courses with a significant focus on Asia chosen in consultation with the Center for Asian Studies advisor. Students whose native language is an Asian language or who have otherwise mastered an Asian language may elect to take four additional Asian studies courses in place of the elementary and intermediate language classes. Language requirements may be selected from Chinese, Indonesian, Japanese, Korean, Thai, and Vietnamese.

An East Asian Studies Certificate is also available. Students must complete two years (20 semester hours) of Chinese or Japanese plus 30 additional semester hours of East Asian area studies courses; these courses must be selected from the core East Asian curriculum or must be courses with a significant focus on East Asia chosen in consultation with the Center for Asian Studies director.
### CLAS Certificates

<table>
<thead>
<tr>
<th>Certificate Program</th>
<th>Administered By</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enriched College Degree Certificate</td>
<td>CLAS</td>
<td>324</td>
</tr>
<tr>
<td>African American Studies Certificate</td>
<td>African American Studies Program</td>
<td>431</td>
</tr>
<tr>
<td>American Public Policy Certificate</td>
<td>Department of Political Science</td>
<td>431</td>
</tr>
<tr>
<td>Asian Studies Certificate ¹</td>
<td>Center for Asian Studies</td>
<td>324</td>
</tr>
<tr>
<td>Civic Education Certificate</td>
<td>Department of Political Science</td>
<td>432</td>
</tr>
<tr>
<td>East Asian Studies Certificate</td>
<td>Center for Asian Studies</td>
<td>324</td>
</tr>
<tr>
<td>Ethics Certificate</td>
<td>Department of Philosophy</td>
<td>325</td>
</tr>
<tr>
<td>Geographic Information Science, Interdisciplinary Certificate in Asia</td>
<td>Arizona Center for Medieval and Renaissance Studies (ACMRS)</td>
<td>326</td>
</tr>
<tr>
<td>Health Physics Certificate</td>
<td>Pre-Health Professions Office</td>
<td>325</td>
</tr>
<tr>
<td>History and Philosophy of Science Certificate</td>
<td>Department of Political Science</td>
<td>325</td>
</tr>
<tr>
<td>International Studies Certificate</td>
<td>Jewish Studies Committee</td>
<td>326</td>
</tr>
<tr>
<td>Jewish Studies Certificate</td>
<td>Jewish Studies Committee</td>
<td>326</td>
</tr>
<tr>
<td>Latin American Studies Certificate ¹</td>
<td>Latin American Studies Center</td>
<td>326</td>
</tr>
<tr>
<td>Medieval and Renaissance Studies Certificate</td>
<td>ACMRS</td>
<td>326</td>
</tr>
<tr>
<td>Museum Studies Certificate</td>
<td>Department of Anthropology</td>
<td>—</td>
</tr>
<tr>
<td>Renaissance Studies Certificate ²</td>
<td>ACMRS</td>
<td>—</td>
</tr>
<tr>
<td>Russian and East European Studies Certificate ¹</td>
<td>Russian and East European Studies Consortium</td>
<td>326</td>
</tr>
<tr>
<td>Scandinavian Studies Certificate ²</td>
<td>Department of Languages and Literatures</td>
<td>326</td>
</tr>
<tr>
<td>Scholarly Publishing Certificate</td>
<td>Department of History</td>
<td>—</td>
</tr>
<tr>
<td>Southeast Asian Studies Certificate</td>
<td>Program for Southeast Asian Studies</td>
<td>327</td>
</tr>
<tr>
<td>Translation Certificate</td>
<td>Department of Languages and Literatures</td>
<td>387</td>
</tr>
<tr>
<td>Women’s Studies Certificate ²</td>
<td>Women’s Studies Program</td>
<td>327</td>
</tr>
<tr>
<td>Writing Certificate</td>
<td>Department of English</td>
<td>355</td>
</tr>
</tbody>
</table>

¹ Emphases are also available in these programs.
² For more information, see the *Graduate Catalog*.

**Note:** Students whose native language is Chinese or Japanese or who have otherwise mastered these languages may elect to take four additional East Asian studies courses in place of the elementary and intermediate language courses.

The center houses a comprehensive library and is involved in student and faculty exchange programs with several Asian universities as well as serving as a liaison with various Asian organizations.

For more information, contact the Center for Asian Studies in WHALL 105, or call 480/965-7184.

**Civic Education.** See “Certificate in Civic Education,” page 432.

**Ethics.** This certificate is designed to give students a richer understanding of systematic philosophical thinking about ethics. Students with majors in business, nursing, journalism, and public administration, among others, may well find that training in ethics is beneficial for their career goals. The certificate program permits some flexibility about course selection, thereby facilitating the interests of many students. For more information, visit the Department of Philosophy in PS A524, or call 480/965-3394.

**Health Physics.** The curriculum of health physics involves work in CLAS and the College of Engineering and Applied Sciences. The purpose of the concentration is to serve undergraduate students who wish to prepare themselves for careers in health physics. To qualify for professional status, a health physicist needs a B.S. degree in one of the physical or life sciences and a group of specialized courses in physics, mathematics, chemistry, engineering, and biology.

A Certificate of Concentration in Health Physics is awarded for the successful completion of a B.S. degree in a physical or life science that follows a prescribed program. For more information, visit the Pre-Health Professions Office in LSC 206C, or call 480/965-2365, where academic advising is available.

**History and Philosophy of Science.** The Department of Philosophy offers an undergraduate History and Philosophy of Science Certificate. The certificate program is designed to give students an understanding of both traditional philosophic issues surrounding science and the historical development of concrete scientific theories and ideas. The philosophic questions, of the belief-worthiness and interpretation of scientific claims as well as norms within or about science, both enrich and are enriched by their combination with historical study. Such philosophic and historical study will also often include the examination of contemporary sciences and their place within the larger society.

The certificate requires 18 semester hours bearing a PHI or HPS prefix of which 12 semester hours must be upper-division. Included within the 18 semester hours, at least nine must bear the HPS prefix. PHI 314 Philosophy of Science is also required. All courses counting toward the certificate must be approved for this purpose by a Department of Philosophy undergraduate advisor and passed with a grade of “C” or higher.
For more information, visit the Department of Philosophy in PS A524, or call 480/965-3394.


Jewish Studies. The Jewish studies program is designed with the following goals in mind:

1. to examine the history and culture of the Jews;
2. to provide a model for interdisciplinary teaching and research;
3. to generate and facilitate research on Judaica;
4. to provide the community with programs, courses, and research furthering the understanding of Judaica; and
5. to stand as an example of the university’s commitment to a program of meaningful ethnic studies on a firm academic base.

The Certificate of Concentration in Jewish Studies may be combined with a major in any college. For information about the program, refer to the Department of History or the Department of Religious Studies.

Latin American Studies. The Latin American Studies Certificate program is designed to give students an understanding of culture, economies, political structures, and the history of Latin American nations. The Departments of Anthropology, Economics, Geography, History, Languages and Literatures (Spanish and Portuguese), Political Science, and the College of Business offer courses that combine to make up the interdisciplinary certificate. Students must complete 30 semester hours of upper-division courses from the above departments/colleges with a concentration in Latin America—15 semester hours in the major subject and 15 semester hours in other disciplines. The certificate requires Spanish or Portuguese proficiency through the 313 level of conversation and composition. Only language courses above 313 in literature and civilization will count toward a major or interdisciplinary areas of preparation. Spanish and Portuguese courses above 313 in grammar and phonology will not count toward the major requirements.

The Latin American Studies Center offers the area of emphasis for students who do not wish to attain a high level of language proficiency.

For more information, visit the Latin American Studies Center in SS 213, or call 480/965-5127.

Medieval and Renaissance Studies. An undergraduate Certificate in Medieval and Renaissance Studies is offered by the Arizona Center for Medieval and Renaissance Studies (ACMRS). In addition to the course work and examinations required in a student’s major field of interest, the following minimum requirements must be fulfilled to earn the certificate:

1. six to eight semester hours of classical Latin and six to eight semester hours of Latin (classical and/or medieval) or of a vernacular language of the period (e.g., Old English, Old Norse, Old French, Renaissance Italian);
2. six to eight semester hours of course work in medieval and renaissance studies outside the major discipline;
3. three semester hours of thesis on a topic concerning the Middle Ages or Renaissance. The thesis may be used to fulfill the Honors College thesis requirement for students enrolled in the Honors College; and
4. a minimum of a “C” average in all course work leading to the certificate.

Students interested in the certificate program need to complete an application form before being accepted into the program. Applications are available by calling ACMRS at 480/965-5900.

See the Graduate Catalog for information about the Certificate in Medieval Studies and the Certificate in Renaissance Studies, and “Arizona Center for Medieval and Renaissance Studies (ACMRS),” page 31, for information about the center.

Museum Studies. See the Graduate Catalog or contact the Department of Anthropology for more information.

Russian and East European Studies. Undergraduate students may complete an interdisciplinary certificate program leading to a bachelor’s degree with a major in the chosen field with an emphasis in Russian and East European studies. The requirements for the Russian and East European Studies Certificate comprise (1) three years (22 hours) of Russian or another Eurasian or East European language and (2) 30 upper-division semester hours in Russian/East European area-related course work.

At least three disciplines must be represented in the area-related course work, and at least 12 hours must be outside the Department of Languages and Literatures (i.e., non-RUS and non-FLA courses). Fulfillment of these requirements is certified by the Russian and East European Studies Consortium and is recognized on the transcript by a bachelor’s degree with “Major in [Discipline], Emphasis in Russian and East European Studies.” The purpose of this undergraduate certificate program is to encourage students majoring in a chosen discipline to develop special competency in Russian or East European language and area studies. A major in any department may elect this emphasis.

For further information, contact the program coordinator of the Russian and East European Studies Consortium at 480/965-4188.

Scandinavian Studies. Students admitted to undergraduate degree programs in any field are eligible for the Scandinavian Studies Certificate program. In addition to the course work and examinations required in the student’s major, the student is responsible for fulfilling the following minimum requirements (21 semester hours) before the certificate is issued:

1. six semester hours of Norwegian or Swedish at the 200 level or above;
2. three semester hours in SCA 250 Introduction to Scandinavian Culture;
3. nine semester hours of upper-division course work in Scandinavian Studies outside the student’s major discipline;
4. a minimum of a “C” average in all course work leading to the certificate; and
5. three semester hours in an independent study thesis on a topic concerning Scandinavian Studies. The thesis may be used to fulfill the Barrett Honors Col-
lege thesis requirement for students enrolled in the Barrett Honors College.

Students who test out of the basic language courses would under advisement take other approved courses to fulfill the minimum requirement of 21 semester hours.

For more information, call the Department of Languages and Literatures at 480/965-6281.

Scholarly Publishing. See the Graduate Catalog for information on this certificate program.

Southeast Asian Studies. A Certificate in Southeast Asian Studies is available to any undergraduate student. The certificate program offers two options: (1) an area studies specialization emphasizing courses in the social sciences and humanities and requiring one year of Indonesian, Thai, or Vietnamese and (2) a language specialization requiring a two-year sequence in a Southeast Asian language and a proportional number of area studies courses.

Students wishing to study a Southeast Asian language other than those offered on campus may transfer credits earned at the Southeast Asian Studies Summer Institute, a consortium for intensive language and area studies, or at other accredited programs. Qualified students may request placement testing on other national languages of the region, administered in accordance with the national American Council of Teachers in Foreign Languages (ACTFL) guidelines.

The ASU curriculum includes
1. language instruction in Indonesian, Thai, or Vietnamese;
2. ASB/GCU/HST/POS/REL 240 Introduction to Southeast Asia;
3. HST 308 Modern Southeast Asia;
4. electives in the social sciences and humanities on the history, geography, culture, politics, and religion of the region; and
5. a culminating capstone seminar in which the students share multidisciplinary approaches to the region and integrate knowledge of Southeast Asia with their respective disciplinary orientations.

Courses counting toward the Certificate in Southeast Asian Studies fulfill requirements for undergraduate majors and General Studies in the social and behavioral sciences, humanities, literacy, and global and historical awareness areas. A two-year sequence in Southeast Asian language study meets the foreign language requirement for undergraduates in CLAS.

The Program for Southeast Asian Studies is a federally funded National Resource Center for Southeast Asia. For more information, contact the Program for Southeast Asian Studies in LL 9 (basement), 480/965-4232.

Translation. See “Translation Certificate (Spanish/English),” page 387, for information about the Certificate in Translation.

Women’s Studies. Women’s Studies provides students with an intensive interdisciplinary liberal arts education that enables them to write well, think critically, and analyze problems effectively. Students take a variety of courses, including a capstone seminar requiring original research and writing and an internship that helps them prepare for life after college. Original undergraduate research is encouraged, and some courses involve students in studying community problems and formulating policy solutions.

A Certificate of Concentration in Women’s Studies is awarded for the successful completion of WST 100 (or 300) and WST 337 or 378 and an additional 12 semester hours from the list of approved women’s studies courses, only six hours of which may also be applied toward the student’s major.

Inquiries about the program should be addressed to the Women’s Studies Program in ECA 209, 480/965-2358, where the current list of approved courses is available.

GENERAL INFORMATION

Research Centers. To expand educational horizons and to enrich the curriculum, CLAS maintains the following research centers:

- Arizona Center for Medieval and Renaissance Studies
- Cancer Research Institute
- Center for Asian Studies
- Center for Meteorite Studies
- Center for Solid-State Science
- Center for the Study of Early Events in Photosynthesis
- Exercise and Sport Research Institute
- Hispanic Research Center
- Institute of Human Origins
- Joan and David Lincoln Center for Applied Ethics
- Latin American Studies Center
- CLAS also participates with the College of Education and the College of Engineering and Applied Sciences in maintaining the Center for Research on Education in Science, Mathematics, Engineering, and Technology. See “Research Centers, Institutes, and Laboratories,” page 27, for more information.

Courses. The faculty also offer the following LIA course to familiarize students with available resources and services for research purposes.

For information on LIA courses, see the Schedule of Classes, visit the Office for Academic Programs in SS 111, or call 480/965-6506.

LIBERAL ARTS AND SCIENCES (LIA)

LIA 191 First-Year Seminar. (1–3)
Not regularly offered