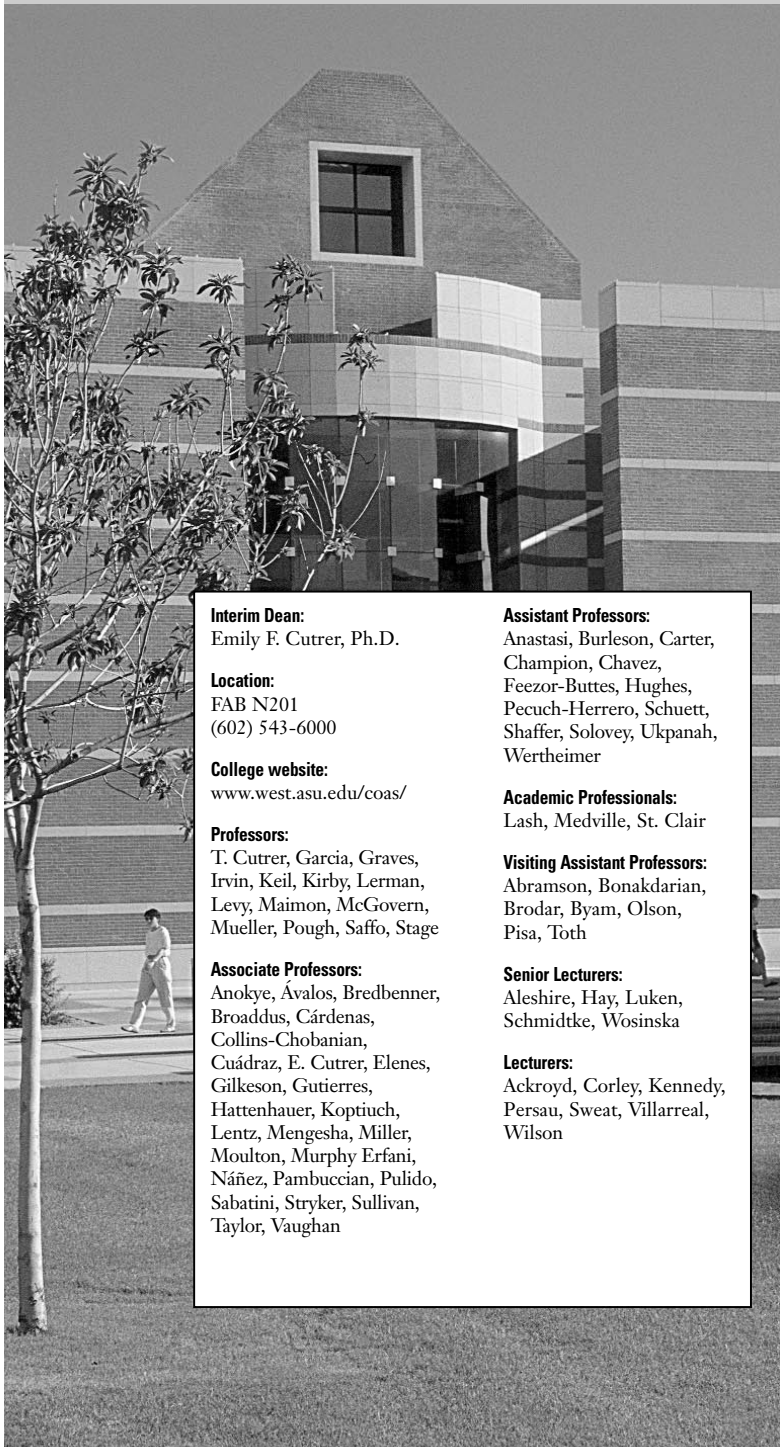


College of Arts and Sciences



Interim Dean:
Emily F. Cutrer, Ph.D.

Location:
FAB N201
(602) 543-6000

College website:
www.west.asu.edu/coas/

Professors:
T. Cutrer, García, Graves,
Irvin, Keil, Kirby, Lerman,
Levy, Maimon, McGovern,
Mueller, Pough, Saffo, Stage

Associate Professors:
Anokye, Avalos, Bredbenner,
Broadus, Cárdenas,
Collins-Chobanian,
Cuádras, E. Cutrer, Elenes,
Gilkeson, Gutierrez,
Hattenhauer, Koptiuch,
Lentz, Mengesha, Miller,
Moulton, Murphy Erfani,
Náñez, Pambuccian, Pulido,
Sabatini, Stryker, Sullivan,
Taylor, Vaughan

Assistant Professors:
Anastasi, Burleson, Carter,
Champion, Chavez,
Feezor-Buttes, Hughes,
Pecuch-Herrero, Schuett,
Shaffer, Solovey, Ukpanah,
Wertheimer

Academic Professionals:
Lash, Medville, St. Clair

Visiting Assistant Professors:
Abramson, Bonakdarian,
Brodar, Byam, Olson,
Pisa, Toth

Senior Lecturers:
Aleshire, Hay, Luken,
Schmidtke, Wosinska

Lecturers:
Ackroyd, Corley, Kennedy,
Persau, Sweat, Villarreal,
Wilson

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Purpose

The College of Arts and Sciences offers academic programs that prepare students to take their place as active participants in a rapidly changing social, political, and natural environment. These programs seek to provide students with the following:

1. the skills necessary for independent thinking and effective expression;
2. an understanding and appreciation of diverse cultures both past and present;
3. a sensitivity to the aesthetic dimensions of human endeavor and the natural environment; and
4. an appreciation and understanding of scientific perspectives and methods as tools for understanding nature and society.

The College of Arts and Sciences is organized into six interdisciplinary departments—American Studies, Integrative Studies, Interdisciplinary Arts and Performance, Life Sciences, Social and Behavioral Sciences, and Women’s Studies. The faculties of each of these departments contribute both interdisciplinary and disciplinary courses to the general education and major programs of all ASU West students.

The College of Arts and Sciences offers the following degree programs:

- B.A. American Studies
- B.A. English
- B.A. History
- B.A. Integrative Studies
- B.A. Interdisciplinary Arts and Performance
- B.S. Life Sciences
- B.A., B.S. Politics
- B.A., B.S. Psychology
- B.A., B.S. Social and Behavioral Sciences
- B.A., B.S. Sociology
- B.A. Spanish
- B.A., B.S. Women’s Studies
- M.A. Interdisciplinary Studies

The College of Arts and Sciences offers certificates in Ethnic Studies, Film and Video Studies, Writing, and Women’s Studies. Students may also acquire minors in sixteen areas.

Baccalaureate degree programs

Admission

Any student who is admitted to the university and who wishes to major in an interdisciplinary or disciplinary field offered by the College of Arts and Sciences is admitted to the degree program.

Degree requirements

All candidates for graduation in the B.A. and B.S. degree curricula are required to present at least 120 semester hours, of which at least 50 hours must consist of upper division courses. A minimum cumulative GPA of 2.00 is required for graduation.

In cooperation with their college and faculty advisors, students file a Declaration of Graduation in accordance with the degree requirements. It is the students’ responsibility to be aware of the requirements for their degree program and to select courses accordingly.

While the graduation requirements discussed below include both lower division and upper division courses, ASU West students must fulfill the lower division requirements at ASU Main or another accredited college or university. Transfer credit is approved by Admission Services.

To graduate, a student must satisfy separate requirements of three kinds:

1. college proficiency requirement for Language and Culture;
2. university First-Year Composition and General Studies requirements; and
3. major requirements which involve concentrated course work in one program.

Proficiency requirement. Each student is required to demonstrate proficiency in the analysis of language and culture by passing an examination or by completing the courses specified below with a grade of “C” or better in each course.

The Language and Culture requirement may be satisfied through one of the following:

1. completion of secondary education at a school in which the language of instruction is not English; or
2. completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV; or
3. completion of upper division course(s) taught in a foreign language, taken in the United States or the relevant country (contact college advisors for information on individual majors); or
4. completion of six hours of upper division courses that have a Global Awareness (G) or Cultural Diversity in the U.S. (C) designation, in addition to the courses used to meet the University General Studies requirements; or

5. completion of two sequential semesters of course work in a current computer language (contact departmental advisors for information on individual majors).

Major requirements. Each student is required to select a major from among the programs offered by the College of Arts and Sciences. The requirements for completion of the major are described under department listings.

A. The major program may require up to 45 semester hours of course work. The minimum is 30 hours. A maximum of 18 additional hours may be required in related courses and prerequisites. No more than 63 semester hours of course work may be required to complete the major, related courses, and prerequisites. A minimum of 12 upper division hours in the major must be taken in campus resident credit.

B. No credit is granted toward fulfilling major or minor requirements in any upper division course in the subject field of the major unless the grade in that course is at least a “C.” Normally a “Y” (satisfactory) grade needs confirmation that it is equivalent to a “C” or better.

General electives. Once the three kinds of requirements have been satisfied, the remainder of the minimum of 120 hours required for graduation are general electives. Contact college advisors for assistance in selecting elective courses.

American Studies

Co-Chair: Akua Duku Anokye, Ph.D.

Co-Chair: Thomas Cutrer, Ph.D.

Location: FAB N209, (602) 543-6035

The Department of American Studies faculty offers an interdisciplinary Bachelor of Arts degree program in American Studies, Bachelor of Arts degree programs in English,

History, and Spanish, and courses in other disciplines represented in the program, such as Religious Studies and Art History.

Bachelor of Arts Degree in American Studies

Nature of program

The Bachelor of Arts in American Studies enables students to look at the experiences of North Americans and their environment from a variety of historical and contemporary perspectives. Courses are grouped into four emphases:

American systems, which deals with political, economic, religious, and legal institutions;

American cultures, which concentrates on systems of belief and their symbolic expression in literature, art, philosophy, and regional and popular cultures;

American lives, which explores the ways in which categories of race, ethnicity, class, and gender intersect with individual and community experience; and

Writing, which stresses critical writing skills and helps train students to undertake careers in which writing is a major activity.

American Studies offers a flexible, interdisciplinary degree program that allows students to take courses in a number of areas. Students who have interests in American history, society, literature, or art, for example, but prefer not to major in a single discipline, such as English or History,

are ideal candidates for the program. All students complete a core of American Studies courses (12 hours) that provides them with an overview of American history and society and introduces them to interdisciplinary study. In addition, each student designs, with the approval of the American Studies faculty advisor, a program of focused course work (21 hours) tailored to the student's interests and career goals. Students may choose to emphasize a particular area in American Studies, for example, or select other courses to develop a program focusing on a particular topic, such as the American West, the twentieth century, or American multi-culturalism. Of the focused course work, at least four courses (12 hours) must be at the upper division.

Students conclude the program with an exit project, developed with an individual faculty member, and approved by the faculty advisor. Exit projects may take a variety of forms; they can include internships, theses, or some similar kind of creative project. The purpose of the exit project is to help students to integrate the knowledge and skills that they have gained in the program. It also provides students with a means of exploring career interests before graduation.

Career outlook

The B.A. in American Studies teaches students to think and write critically, to conduct research, and to appreciate the changing and diverse nature of American life. American Studies graduates accordingly are well-equipped to embark on a wide variety of careers in government, education, business, museum and foundation work, law, journalism and other forms of professional writing, and in other areas where these capabilities are highly valued and sought. The program also serves as excellent preparation for law school and for graduate programs in fields such as American Studies, English, Journalism, History, and Art History. Most importantly, American Studies, by virtue of its interdisciplinary approach to the study of American cultures, systems, and lives, provides a rounded perspective, a chance to see issues and problems from a variety of angles. As such, it is ideally suited to careers in which research, analysis and planning play a central role.

Major requirements

A minimum of 36 semester hours (27 upper division) with a grade of “C” or better is required for the Bachelor of Arts in American Studies.

	Semester Hours
Core courses	12
AMS 301 Introduction to American Studies (L)	
AMS 310, 311 American Systems (L, C, H) <i>or</i>	
AMS 320, 321 American Cultures (SB, H)	
AMS 330 Introduction to American Lives (C)	
Focused course work	21
Working with the American Studies faculty advisor, students will designate appropriate lower division course work (if applicable) and select upper division course work to develop a coherent program or topic of study. The focused course work may be in a single American Studies area, or it may be spread across the areas of emphasis. Twelve hours must be upper division.	
Exit project	3
Thesis, internship, or research designed in consultation with a faculty advisor.	
Total	<u>36</u>

Minor in American Studies

The Minor in American Studies offers students the opportunity to pursue an interest in the interdisciplinary study of American Culture. This interdisciplinary minor is particularly appropriate for students majoring in one of the humanities or social sciences disciplines.

The minor consists of 18 semester hours, 12 of which must be upper division hours.

	Semester Hours
Core courses	12
AMS 301 Introduction to American Studies	
AMS 310, 311 American Systems <i>or</i>	
AMS 320, 321 American Cultures	
AMS 330 Introduction to American Lives	
Supporting courses	6
Courses must be with substantial American content and must be approved by the American Studies faculty advisor.	
Total	<u>18</u>

Nature of program

As part of the Department of American Studies, the English curriculum emphasizes the study of texts in contexts. Students study not only the forms of writing but also the history of those forms. As well as reading and analyzing literature from a broad range of periods and genres, students will learn to produce good expository prose.

Through a mix of requirements and electives, the major allows students to emphasize particular genres, periods, regions, and themes, but not to the exclusion of others. Students will determine an appropriate program of study in consultation with a faculty advisor. Thus, while being able to specialize, each student is assured the general background that academia and business often require. By their final semester, students will have had ample opportunity to perfect their writing.

Career outlook

The English curriculum prepares students for graduate and professional training (including law, business, teaching, and public policy) and because of its breadth and emphasis on the communication of ideas serves as an excellent point of departure for careers in marketing, public relations, government, diplomacy, and community work.

Major requirements

The program requires 45 semester hours in English, at least 24 of which must be in upper division courses.

Students will assemble a portfolio of English course work to be presented to the faculty prior to graduation. A grade of “C” or better is required in all courses taken for the major.

	Semester Hours
Lower or upper division courses required	12
ENG 221, 222 Survey of English Literature (HU, H)	
ENG 241, 242 American Literature (HU)	
These requirements may also be satisfied by the following upper division sequences:	
ENG 331, 333 British Literature (L/HU)	
ENG 341, 342 American Literature (HU)	
Upper division courses required	12
ENG 311 Persuasive Writing (L)	
ENG 323 Rhetoric and Grammar for Writers and Teachers (L)	
ENG 473 Shakespeare (L/HU)	
Three semester hours in AMS or ENG upper division course work in literature of gender or ethnicity as approved by advisor	
Other requirements	
English electives (select in consultation with an advisor)	21
Total	45

Minor in English

The Minor in English requires 21 semester hours in English, at least nine of which must be in upper division courses. Students will assemble a portfolio of English course work to be presented to the faculty prior to graduation.

Lower or upper division courses required

ENG 221, 222 Survey of English Literature
ENG 241, 242 American Literature

Semester
Hours

12

These requirements may also be satisfied by the following upper division sequences:

ENG 331, 333 British Literature
ENG 341, 342 American Literature

Upper division courses required

ENG 311 Persuasive Writing
ENG 323 Rhetoric and Grammar for Writers and Teachers
ENG 473 Shakespeare

Total

Semester
Hours

9

—
21

B.A.E. in Secondary Education

English specialization

The requirements for the Bachelor of Arts in Secondary Education with a specialization in English consist of the Professional Teacher Preparation Program for secondary majors (see the “College of Education” section of this catalog) and 42 semester hours in English, at least 24 of which must be in upper division courses. The English major for teachers focuses on the skills, authors, periods, genres, regions, and themes that Arizona high schools teach most: writing, Shakespeare, British and American classics, major recent texts, ethnicity, and gender. Students will determine an appropriate program of study in consultation with a faculty advisor, and will assemble a portfolio of English course work to be presented to the faculty prior to graduation. A grade of “C” or better is required in all courses taken for the major.

Lower or upper division courses required

ENG 221, 222 Survey of English Literature
ENG 241, 242 American Literature

These requirements may also be satisfied by the following upper division sequences:

ENG 331, 333 British Literature
ENG 341, 342 American Literature

Upper division courses required

ENG 311 Persuasive Writing
ENG 323 Rhetoric and Grammar for Writers and Teachers
ENG 473 Shakespeare

One course in the literature of ethnicity or gender as approved by advisor

Other requirements

English electives (select in consultation with a faculty advisor)

Total

Semester
Hours

12

12

18

—
42

English minor

The program requires 21 semester hours in English, at least 12 of which must be in upper division courses. The minor focuses on material most frequently taught in Arizona high schools. Students will assemble a portfolio of English course work to be presented to the faculty prior to graduation.

Lower or upper division

Courses required

1. Select one course from the following:

- ENG 221 Survey of English Literature
- ENG 241 American Literature
- ENG 331 British Literature to 1800
- ENG 341 American Literature to 1865

Semester
Hours

9

- 2. ENG 222 Survey of English Literature *or*
ENG 333 British Literature since 1800
- 3. ENG 242 American Literature *or*
ENG 342 American Literature since 1865

Upper division courses required

- 1. ENG 311 Persuasive Writing
- 2. ENG 323 Rhetoric and Grammar for Writers and Teachers
- 3. ENG 473 Shakespeare
- 4. One course in the literature of ethnicity *or* one course in the literature of gender as approved by advisor

Semester
Hours

12

Total

21

Certificate in Writing

Nature of program

The Department of American Studies offers a program for students enrolled in any college at Arizona State University leading to a certificate in nonfiction writing. Students may fill as much as 58 percent of the certificate's requirements with courses relevant to their major course of studies. Six of the courses from which students may choose fulfill the literacy and critical inquiry (L) General Studies core requirement. Students will learn and practice writing in the various styles and genres; learn computer technology relevant to writing, public relations, and publishing; and learn about local and national markets for publishing their work.

Career outlook

Certification of advanced writing skills opens the way to a vast array of opportunities, from journalism and publishing to public advocacy, military and government careers, elementary and secondary education, business management, economic development, the law, and

high-tech industry. Ability to communicate clearly and directly is a key to career advancement in all aspects of business, government, and community service.

Admission requirements

To gain admission to the Writing Certificate Program, students must demonstrate fundamental writing skills by submitting a portfolio of writing from lower division courses or independent writing projects. Applicants will also write an essay on a subject chosen by the program's administrators. An entry interview completes the admission process.

Program requirements

Comprised of 16-19 semester hours, the program combines two courses in writing with intensive one-on-one-study, a series of one credit short courses, an internship, a capstone project in the student's major, and an exit portfolio. Several special aspects make it possible to combine these credits with general studies or major requirements:

Core course and writing consultation. This combination of a basic course in writing with a one semester hour Center for Writing Across the Curriculum component yields four semester hours.

Short courses. Two to five semester hours may be earned in short courses related to the student's major, chosen career, or writing interests, or through a combination of short courses and internship. The short courses will meet at night and on weekends.

Internship. Students are encouraged to take one to three semester hours of internship with a company, agency, or publication related to their planned career field.

Capstone project. A capstone writing project in the student's major adds three more semester hours.

Exit portfolio. Students will assemble a portfolio of writing that demonstrates their grasp of the skills presented during their course of

studies, for which they will earn another semester hour.

A grade of "C" or better is required for course work taken for the Writing Certificate, with the exception of the exit portfolio, which is graded on a pass/fail basis. The following courses are required:

1. One of the following core courses, to be taken at the same time as AMS 350 Writing Consultation:
 - ENG 311 Persuasive Writing
 - ENG 315 Writing for the Professions
 - AMS 301 Introduction to American Studies
 - AMS 344 Creative Writing
2. AMS 350 Writing Consultation
(co-requisite with the core course)
3. One of the following writing courses:
 - ENG 316 Writing and Arguing Politics
 - ENG 323 Rhetoric and Grammar for Writers and Teachers
 - AMS 342 Writing about American Culture
 - AMS 345 Reporting
4. Two to five specialized one-semester-hour short courses (AMS 394) or a combination of short courses and internship (Internship 484)
5. Capstone writing project in the student's major (AMS 498, or an approved course in the student's major)
6. AMS 490 Writing Certificate Portfolio

Bachelor of Arts Degree in History

Nature of program

The Bachelor of Arts in History trains students in the use of basic tools and methods of the historical discipline. It exposes students to a broad span of modern history, a wide range of historiographical perspectives and approaches, and such fundamental categories of historical analysis as race, class, gender, and ethnicity. Students in the history program should develop habits of mind associated with history as a discipline, including an awareness of change over time, an ability to make reasoned arguments about historical

events and developments, and a sensitivity to the varieties of historical experience.

The History major consists of several specific core courses and a range of electives and distributional requirements. It provides students with a solid foundation in historical methods while at the same time allowing them to tailor the major to their personal and professional interests. Students will develop their program of study in History in consultation with a faculty advisor.

Career outlook

The history major serves as excellent preparation to study in graduate or professional degree programs and for careers in which critical thinking, research, and writing skills are highly valued. The history major provides a strong foundation for understanding the forces of change that shape contemporary society, the marketplace, and the lives of individuals and groups, thereby equipping students to negotiate the complex cultural, community, and business environments of the 21st century.

Major requirements

The Bachelor of Arts degree in History requires a minimum of 45 semester hours with a grade of “C” or better, of which a minimum of 30 hours must be in History courses.

At least 21 hours in history courses and six hours in supporting courses must be taken at the upper division.

All students will keep a portfolio of their work in history courses as a part of the exit requirement for graduation.

		Semester Hours
Lower or upper division requirements:		6
A two semester survey in United States History or European History or World History		
This requirement may also be satisfied by six hours of supporting course work in one of the following upper division survey sequences:		
American Survey		
AMS 310/HIS 305	American Systems I (L, H, C) <i>or</i>	
AMS 320/HIS 303	American Cultures I (SB, H) and	
AMS 311/HIS 306	American Systems II (L, H, C) <i>or</i>	
AMS 321/HIS 304	American Cultures II (SB, H) <i>or</i>	
AMS 330	Introduction to American Lives (C)	
European Survey		
HIS 355	Europe and the World I (H) <i>and</i>	
HIS 356	Europe and the World II (G, H)	
Upper division requirements:		
HIS 300	Historical Methods (L, H)	3
HIS 498	History Proseminar (L)	3
Total		12

History electives. History majors are required to complete 18 semester hours of history electives, of which a maximum of three hours may be taken at the lower division. The 15 semester hours of upper division course work must be distributed as follows: six hours in American history, six hours in European history, and three hours in comparative history.

Supporting course work. A minimum of 15 hours of supporting course work may be taken in American Studies, English, History, Religious Studies, Spanish and other upper division language courses, or in other related fields as approved by the history faculty advisor.

Minor in History

The minor in History consists of 18 semester hours of history course work with a grade of “C” or better, of which six semester hours may be lower division.

Lower or upper division requirements:

A two semester survey in United States History or European History or World History
This requirement may also be satisfied by six hours of supporting course work in one of the following upper division survey sequences:

Semester
Hours

6

American Survey
AMS 310/HIS 305 American Systems I *or*
AMS 320/HIS 303 American Cultures I
and
AMS 311/HIS 306 American Systems II *or*
AMS 321/HIS 304 American Cultures II *or*
AMS 330 Introduction to American Lives
European Survey
HIS 355 Europe and the World I *and*
HIS 356 Europe and the World II

Semester
Hours

Upper division requirements:

HIS 300 Historical Methods 3
Select three history electives 9

Total 18

B.A.E. in Secondary Education

History specialization

The requirements for the Bachelor of Arts in Secondary Education with a specialization in History consist of the Professional Teacher Preparation Program for Secondary majors (see the “College of Education” section of this catalog) and 42 semester hours in the specialization area.

Semester
Hours

History requirements:

1. Arizona History 3
2. U.S. History Survey 6
HIS 103, 104 The United States *or*
HIS 303, 304 American Cultural History *or*

HIS 305 History of American Systems
to 1865 *and*
HIS 306 History of American Systems
since 1865
3. HIS 300 Historical Methods 3
4. U.S. History (upper division; non-survey) 9
5. Non-U.S. History (upper division) 9

Total 30

Supporting course work. 12 semester hours of supporting course work, including nine upper division hours to be approved by the B.A.E. history advisor.

Bachelor of Arts Degree in Spanish

Nature of program

The Spanish program consists of three tracks: language, literature, and cultures. These tracks are integrated within the discipline and with other disciplines within the College of Arts and Sciences. Spanish classes are taught

through an intensive language approach and using the most recent electronic technologies including videos, CD-ROMs, electronic chat groups, and news groups devoted to Hispanic literature and culture.

Spanish also offers credit for internships in social and business agencies. This school-to-work experience, in addition to offering the student an entry-level job opportunity, will provide stimulating linguistic and cultural rewards outside of the campus environment.

Career outlook

The Spanish major serves as excellent preparation for graduate school or for employment as a teacher in either the elementary or secondary school system, especially in those districts where bilingual programs are integral to the curricula. Outside the education system, students majoring in Spanish can find employment as translators and interpreters in social agencies, federal and state courts, the diplomatic corps, law enforcement agencies, and law firms. The business world also provides employment for those fluent in Spanish. This is especially true in the southwest, with its proximity to Mexico and through new outlets opened by the trilateral NAFTA agreement.

Major requirements

The Spanish Major consists of a minimum of 45 semester hours, of which at least 30 hours are in Spanish (SPA) courses and 15 are in

related courses to be selected in consultation with an Arts and Sciences academic advisor. Of the 30 hours in Spanish, at least 24 upper division hours are required, with at least nine hours at the 400 level. A minimum grade of “C” is required in all upper division courses in Spanish. First-year Spanish courses (SPA 101, 102) are not applicable to the major, but may be applied to the degree as electives.

	Semester Hours
Required courses include:	15
SPA 313 Spanish Conversation and Composition (G) (or 315*)	
SPA 314 Spanish Conversation and Composition (G) (or 316*)	
SPA 325 Introduction to Hispanic Literature (HU)	
SPA 412 Advanced Conversation and Composition (G)	
SPA 425 Spanish Literature (HU) <i>*Equivalent courses for Bilinguals, available at ASU Main.</i>	
Two courses from the following:	6
SPA 426 Spanish Literature (HU)	
SPA 427 Spanish-American Literature	
SPA 428 Spanish-American Literature	
One course from the following:	3
SPA 471 Civilization of the Spanish Southwest (HU) (available at ASU Main)	
SPA 472 Spanish-American Civilization (HU)	
Two SPA electives*	6
Related area coursework*	<u>15</u>
Total	45
<i>*Chosen in consultation with an advisor</i>	

Minor in Spanish

The minor in Spanish consists of 20 hours of Spanish course work, of which 12 hours must be upper division. All Spanish course work must be completed with a minimum grade of “C.” The following courses are required:

- SPA 201 Intermediate Spanish (4) *and*
 - SPA 202 Intermediate Spanish (4) *or*
 - SPA 207 Spanish for International Professions II (8)
- 12 additional hours at the 300 or 400 level, chosen in consultation with an academic advisor.

Integrative Studies

Chair: Linda Stryker, Ph.D.
Location: FAB N279
(602) 543-6003

The Department of Integrative Studies faculty offers an interdisciplinary Bachelor of Arts degree program in Integrative Studies,

Minors in Mathematics and Philosophy, and courses in a number of areas that contribute to General Studies program requirements.

Bachelor of Arts Degree in Integrative Studies

Nature of program

The Bachelor of Arts degree in Integrative Studies enables students to design individualized programs of study for their academic, personal, and professional pursuits.

Integrative Studies emphasizes focused study in the liberal arts, the development of critical thinking skills, and the capacity to synthesize problem-solving strategies for life in the 21st century. In this program, students will work closely with dedicated faculty who have scholarly training and teaching interests in the sciences, social sciences, mathematics, arts, and humanities. Students learn from one another's life experiences and from the professional expertise of their faculty.

Career outlook

The Integrative Studies curriculum emphasizes advanced, interdisciplinary study combined with a concentration in a traditional disciplinary or professional area (e.g. English, communication studies, gerontology, history, psychology, prelaw, pre-MBA etc.). Students can tailor their academic programs to meet their individualized career goals. A capstone internship program prepares students to make the transition smoothly to post-baccalaureate employment in business, cultural, educational, community, and human service settings, as well as to graduate school. Students planning graduate or professional degrees in law, business, helping professions, or in traditional disciplinary areas will benefit from the flexibility of this program for a broad range of future academic and career pursuits.

Major requirements

The Integrative Studies major consists of 39-45 semester hours with a grade of "C" or better.

Core courses

Twenty-one semester hours of course work are required.

1. IAS 300 Adult Career Development (L/SB)
2. IAS 420 Multicultural Autobiographies (L/HU, C) *or*
IAS 422 Women and Science (L/HU, H)
3. IAS 484 Internship
4. IAS ___ Elective
5. IAS 406 Moral Dilemmas (L/HU) *or*
IAS 407 Environmental Philosophy and Policy (L/HU)
6. IAS 323 History of Science (HU, H) *or*
IAS 330 History and Philosophy of Biology (H) *or*
IAS 410 Evolution of Ideas (L/HU, H) *or*
IAS 411 History and Philosophy of Mathematics (HU, H) *or*
IAS 412 History and Philosophy of the Social Sciences (HU, H)
7. One additional course from 2, 5, or 6.

Concentration

Working with the Integrative Studies faculty advisor, students will select either a minor available at ASU West or an individualized concentration.

Approved ASU West minor. Working with the Integrative Studies faculty advisor, students will select one of the minors available at ASU West (see page 78). Specific requirements for these minors are described in this catalog under the major field departments and are available from the IAS faculty advisor. The credits required in a minor vary by department. The courses taken to fulfill the concentration requirement may not be used to simultaneously fulfill the requirements of a minor.

Individualized concentration. Working with the Integrative Studies advisor, students may construct an individualized concentration of 18 upper division semester hours that has a coherent theme or purpose and fulfills

intended general learning outcomes. Other options are a concentration of six literacy and critical inquiry General Studies (L) courses and the ASU West Writing Certificate Program.

Minor in Mathematics

Nature of program

The minor in Mathematics explores the study of higher mathematics. It is designed to enable the student to understand the mathematics most commonly used in science, economics, and business. It is expected that students in the minor will be able to reason, and to find creative solutions to problems that were either presented to them or meaningfully formulated by them. The minor is recommended for students who plan to major in integrative studies, life sciences, and business, as well as those who prepare for further graduate study.

Requirements

The minor in Mathematics consists of a minimum of 27 semester hours, of which nine semester hours must be taken in the Integrative Studies Department.

Required courses:

MAT 270 Calculus with Analytic Geometry I
 MAT 271 Calculus with Analytic Geometry II
 MAT 272 Calculus with Analytic Geometry III
 MAT 300 Mathematical Structures
 MAT 342 Linear Algebra

Electives

Select three courses in consultation with a mathematics advisor from:

MAT 310 Introduction to Geometry
 MAT 371 Advanced Calculus I
 MAT 411 History and Philosophy of Mathematics
 MAT 443 Abstract Algebra
 MAT 445 Theory of Numbers
 Other approved course

B.A.E. in Secondary Education

Mathematics specialization

The requirements for the Bachelor of Arts in Secondary Education with a specialization in Mathematics consist of the Professional Teacher Preparation Program for secondary majors (see the “College of Education” section of this catalog) and 39 semester hours in mathematics, of which 24 must be upper division.

	Semester Hours
Required lower division courses	15
Choose one computer course (open entry-open exit courses are not acceptable):	
CIS 200 Computer Applications and Information Technology*	

CSE 100 Principles of Programming*
 CSE 180 Computer Literacy
 CSE 181 Applied Problem Solving with Visual Basic*
 MAT 270 Calculus with Analytic Geometry I
 MAT 271 Calculus with Analytic Geometry II
 MAT 272 Calculus with Analytic Geometry III

Required upper division courses	24
MAT 300 Mathematical Structures	
MAT 310 Introduction to Geometry	
MAT 342 Linear Algebra	
MAT 371 Advanced Calculus I	
MAT 411 History and Philosophy of Mathematics	
MAT 443 Abstract Algebra or	
MAT 445 Theory of Numbers	
STP 420 Introductory Applied Statistics	

Total	<u>39</u>
*Complete this ASU Main course or transfer equivalent.	

Nature of program

The minor is designed to provide students with an understanding of central philosophical issues. The minor provides students with:

- a knowledge of the most important problems and ideas in the philosophical areas studied;
- a capacity for critical thinking and analytical reasoning; and
- the ability to present one's positions effectively through oral and written communication.

The Minor in Philosophy with a concentration in the history and philosophy of science is attractive to students from Life Sciences, American Studies, and Social and Behavioral Sciences Departments. The minor with a concentration in ethics should appeal to majors in Politics, Social and Behavioral Sciences, Life Sciences, Global Business, Administration of Justice, and others.

Program requirements

The Minor in Philosophy consists of 21 semester hours of Philosophy coursework, of which 15 must be upper division hours. Fifteen semester hours of campus resident credit is required. Only courses in which the student earns a grade of "C" or better will fulfill requirements for the minor. Courses are to be selected with a Philosophy advisor to create a coherent and complete program of study for the Minor. Optionally, students may wish to add either a Philosophy Senior Thesis, written under the supervision of a faculty member, or an appropriate Internship.

Requirements

At least one course from the following:

PHI 306	Applied Ethics
PHI/IAS 406	Moral Dilemmas
PHI/IAS 407	Environmental Philosophy and Policy
PHI 360	Business and Professional Ethics

At least one course from the following:

HPS/IAS 323	History of Science
HPS/IAS 330	History of Biology: Conflicts and Controversies
HPS/IAS/MAT 411	History and Philosophy of Mathematics
HPS/IAS 412	History and Philosophy of the Social Sciences
HPS/IAS 422	Women and Science

At least one Special Topics Course or three semester hours of Individualized Instruction

Capstone course (optional):

IAS 484	Internship
IAS 499	Senior Thesis

Interdisciplinary Arts and Performance

Chair: Robert Taylor, Ph.D.
Location: FAB N205
(602) 543-6057

The Department of Interdisciplinary Arts and Performance (IAP) offers courses and activities that can develop practicing artists for the 21st century, provide for the aesthetic education of the general student body, and serve as a cultural resource for the community.

The department offers specialized Interdisciplinary Arts and Performance courses with concentrations in Media Arts, Music, Performance Studies, Theatre/Performance, and Visual Arts. The IAP faculty also offers courses in Art, Art History, Dance, Dance History, Humanities, Music, and Theatre.

Bachelor of Arts Degree in Interdisciplinary Arts and Performance

Nature of program

The Bachelor of Arts in Interdisciplinary Arts and Performance (IAP) focuses on integrated study of all the arts. It encourages practical application of theory and content-area knowledge with the integration of skills and performance. Emphasis is placed on creativity, innovation, integration, and presentation.

Student outcomes

The IAP program provides graduates with the knowledge and skills needed to:

- understand the inter-relationship among the art forms of music, dance, theater, visual art, performance, and media arts;
- develop creative work independently;
- illustrate practical knowledge of the collaborative process in the arts;
- continue self-development in the arts beyond the program itself;
- engage in current levels of technology in the arts;

- exhibit a historical awareness of artistic works, particularly of the 20th century and contemporary practices; and
- demonstrate an understanding of artistic practices within cultural contexts.

Career outlook

This interdisciplinary training can be the basis for a variety of personal and career pursuits. Students who major in the program will receive practical professional training and solid academic skills. They will gain in-depth preparation necessary for careers as creators and performers. They will also develop critical backgrounds useful for future teachers and scholars in the arts. Graduates of the program will be prepared for advanced study in the performing arts or arts-related professions in education, art and cultural journalism, government and community arts administration, media services, and production.

Admission requirements

Admission to the Interdisciplinary Arts and Performance program requires completion of at least 15 semester hours of course work from any single or combination of arts discipline with a grade of “C” or better. Students with specialized training in a single art form may be admitted to the program based on portfolio assessment or audition and personal interviews.

Major requirements

The Bachelor of Arts in Interdisciplinary Arts and Performance consists of at least 45 semester hours of Interdisciplinary Arts and Performance course work of which three semester hours may be lower division.

Program requirements include:

- Interdisciplinary core courses that focus on the applied nature of the arts
- Course work in one concentration that provides a developmental sequence in a particular arts discipline
- Topics course work focusing on applied practice
- Studies course work emphasizing theoretical, historical, and/or analytical aspects of the arts
- Elective course
- Senior Project intended to focus the body of IAP course work in an original creative work or comparable experience

Semester
Hours
15

Core courses

Media

IAP 361 Digital Editing and Media Literacy (CS)

Music

IAP 325 Sound Performance: Exploring Alternative Performance Groups

Performance Studies

IAP 305 The Avant-Garde and Experimental Arts, WW II to Present (L/HU)

Theater/Performance

IAP 334 Writing/Performance Seminar

Visual Art

IAP 354 Visual Representations

Concentration

Select one of the following:

Media

IAP 363 Sound, Image, and Media

IAP 364 Documentaries

IAP 365 Authoring CD Roms

IAP 465 Media Technologies and the Arts

Music

IAP 321 Music Composition I

IAP 421 Music Composition II

IAP 322 Multitrack Digital Recording

IAP 323 Music and the Visual Arts (HU)

IAP 422 Contemporary Orchestration Practices

Performance Studies

IAP 371 Verbal Art (L/HU, C)

IAP 375 Introduction to Performance Theory (L/HU)

IAP 472 20th Century Theories of Arts and Performance (L/HU)

IAP 473 Aesthetic Research (L/HU)

Theater/Performance

IAP 333 Directing for Performance

IAP 431 Perspectives on Performance and Acting

IAP 434 Production Laboratory

IAP 441 Dance-Drama

Visual Art

Select at least two courses from the following (6-9):

IAP 355 Illusion and Vision

IAP 356 Spatial Impressions

IAP 457 Urban Narrative

Select at least one course from the following (3-6):

IAP 353 Contemporary Figure Drawing I

IAP 452 Elements of Painting

Studies in the Arts

Select two courses from:

IAP 301 Energetic Systems of Art: Collaboration in the Arts

IAP 302 Cross-Cultural Perspectives on the Arts (L/HU)

IAP 303 Artists and the Contemporary American Experience (HU)

IAP 304 The Avant-Garde to WW II (HU)

IAP 336 Career Skills for the Artist (L/HU)

IAP 373 The Critical Artist (HU)

IAP 471 Language, Culture, and Performance (L/HU)

12

6

	Semester Hours
Topics in the Arts	6
Select two courses from:	
IAP 324 The Voice and Performance	
IAP 331 Performance, Acting and the Individual	
IAP 332 Technical Production for Interdisciplinary Arts	
IAP 335 Vocalization and Movement	
IAP 341 Movement Technique	
IAP 351 Concept, Image, and Text	
IAP 352 Seeing and Drawing	
IAP 366 Acoustic Ecology	
IAP 433 Directing Workshop	
IAP 442 Movement and Music	
IAP 464 Media and Diversity	
IAP 466 Authoring CD Roms, Advanced	
Electives	3
Elective hours may be fulfilled by courses with the following prefixes at the upper division: ART, DAN, IAP, MUS, MUP, THE, THP or any lower division applied arts course with departmental approval.	
IAP 480 Senior Project	<u>3</u>
Total	45

Senior Project. The goal of any senior project should be to focus the body of course work undertaken in the IAP curriculum in an original creative work or comparable experience. This work may take the form of a performance (with the student as creator/producer and/or performer), or a written thesis, gallery exhibition, internship, media work or some other acceptable format.

Successful completion of a more demanding senior project for six semester hours is required for the student to graduate with departmental distinction.

Minor in Interdisciplinary Arts and Performance

The minor consists of 24 semester hours in the arts. Twelve of these must be at the upper division (IAP prefix). Six of the 12 upper division credits must be selected from a single concentration offered by the department. The other six credits must be from the IAP core courses. Twelve additional semester hours in applied arts are required.

The Minor and Certificate in Film and Video Studies explore theory and practice in the general field of the moving image. These interdisciplinary programs provide students the opportunity to develop interests, skills, and knowledge of the forms, channels, technologies, and histories of the media arts. Students may pursue focused interests in film studies or adopt a more generalized approach to visual media through television, film, and video. The Minor or Certificate Program is useful to students who may pursue careers in broadcasting, writing, and public relations, as well as degrees in production, film studies, media studies, performance studies, and communication studies.

Courses in the Minor/Certificate in Film and Video Studies are designed to:

- develop astute and discriminating critics and analysts of film and media arts;
- strengthen critical thinking through an awareness of the philosophical, aesthetic, political, and technological debates in film, media, and video studies;
- develop knowledge of the history of film, television, and the video arts as dynamic forces of social, cultural, and political expression; and
- develop practical skills that will enable students to be competitive in film, video, television, and media-related production industries.

Minor in Film and Video Studies

For the minor, students will select one of two areas of emphasis: Films Studies and Media and Video Studies. The Film Studies emphasis focuses on the impact of film and video. The Media and Video Studies emphasis is concerned with the rendering of film and video.

The Minor consists of 21 semester hours, 15 of which must be at the upper division level. A maximum of six semester hours of lower division coursework may be applied to the non-foundation coursework. Both emphases identify foundational courses and available elective courses as listed below. Students are required to include courses drawn from two or more different prefixes and complete IAP 480 which requires a capstone project.

Film Studies emphasis

Course work requirements

Select two of the following foundational courses:

ENG 451 History of Film
IAP 351 Concept, Image, and Text
SOC 366 Film and Society

Select two courses from the following theoretical, conceptual, or historical courses:

ENG 451 History of Film
ENG 452 Sound Film Genres
IAP 351 Concept, Image, and Text
IAP 364 Documentaries
IAP 465 Media Technologies and the Arts
SOC 364 Popular Culture
SOC 365 Sociology of Mass Communication
SOC 366 Film and Society
THE 300 Film: The Creative Process
THE 400 Focus on Film

Other approved course

Select two courses from the following applied, practical courses:

- COM 329 Persuasion
- COM 421 Rhetoric of Social Issues
- COM 429 Semiotics and Visual Communication
- ENG 451 History of Film
- ENG 452 Sound Film Genres
- IAP 322 Multitrack Digital Recording
- IAP 334 Writing/Performance Seminar
- IAP 361 Digital Editing and Media Literacy
- IAP 363 Sound, Image, and Media
- IAP 364 Documentaries
- IAP 365 Authoring CD ROMS
- IAP 366 Acoustic Ecology
- IAP 465 Media Technologies and the Arts
- IAP 466 Authoring CD ROMS, Advanced
- SOC 364 Popular Culture
- SOC 365 Sociology of Mass Communication
- SOC 366 Film and Society
- THE 300 Film: The Creative Process
- THE 394 ST: Acting for the Camera
- THE 394 ST: Television Production
- THE 400 Focus on Film

Other approved course
Capstone project:
IAP 480 Senior Project

Media and Video Studies emphasis

Course work requirements

Select two of the following foundational courses:

- COM 324 Rhetoric and Media Criticism
- IAP 351 Concept, Image, and Text
- IAP 465 Media Technologies and the Arts
- SOC 365 Sociology of Mass Communication

Select four courses from the following theoretical, critical, performance, and/or production courses:

- COM 324 Rhetoric and Media Criticism
- COM 329 Persuasion
- COM 421 Rhetoric of Social Issues
- COM 429 Semiotics and Visual Communication
- ENG 451 History of Film
- ENG 452 Sound Film Genres
- IAP 322 Multitrack Digital Recording
- IAP 334 Writing/Performance Seminar
- IAP 351 Concept, Image, and Text
- IAP 361 Digital Editing and Media Literacy
- IAP 363 Sound, Image, and Media
- IAP 364 Documentaries
- IAP 365 Authoring CD ROMS
- IAP 366 Acoustic Ecology
- IAP 465 Media Technologies and the Arts
- IAP 466 Authoring CD ROMS, Advanced
- SOC 364 Popular Culture
- SOC 365 Sociology of Mass Communication
- SOC 366 Film and Society
- THE 300 Film: The Creative Process
- THE 394 ST: Acting for the Camera
- THE 394 ST: Television Production
- THE 400 Focus on Film
- WST 431 Women and Film

Other approved course
Capstone project:
IAP 480 Senior Project

Senior Project. The project should reflect the integration of coursework with creative initiative to generate a product that stands alone as a piece of original work. For the Film Studies emphasis the project will focus on an intellectual analysis of some dimension of film products, reception, institutions, economics, and so forth. In the Media and Video Studies emphasis, the project may be intellectual or creative (performance/production) in nature. Projects will be examined and evaluated by at least one faculty member involved in the Film and Video Studies minor.

Certificate in Film and Video Studies

The Certificate Program is recommended for graduate students, nondegree students, and students with majors in professional programs. A certificate of concentration in Film and Video Studies is awarded for the successful completion of the 21 semester hours required for the minor.

The Department of Life Sciences offers an interdisciplinary Bachelor of Arts degree program in Life Sciences, including a

premedical track, a minor in Life Sciences, and teacher training in the biological sciences.

Bachelor of Science Degree in Life Sciences

Nature of program

The intricate connections among environment, medicine, and human culture form the basis of the Life Sciences curriculum at ASU West. The Life Sciences major integrates traditionally separate areas within biological sciences, such as environmental biology and medicine, while drawing on the rich heritage of the American Southwest to illustrate the importance of cultural perspectives in science.

The Life Sciences major provides opportunities for students who wish to enhance their employment opportunities at the level of a Bachelor of Science degree, as well as for students who plan graduate training for careers in human or veterinary medicine, dentistry, biotechnology, and academic or environmental biology. Courses include a blend of basic and applied topics.

The Life Sciences Department has developed alliances with the Sun Health Research Institute, the Arizona Department of Game & Fish, Bolin Laboratories, Maricopa Environmental Health Services Department, Arizona Department of Environmental Quality, the Phoenix Zoo, and the Salt River Project which allow students to work with practicing scientists from those organizations. Students can work with faculty in the department to arrange volunteer or paid internships with these and other organizations in the

community, tailored to the student's needs and interests.

A series of practicum courses focuses on areas of applied biology and are taught by professional biologists from the community. These courses provide the background information and specific skills valued by employers and give students an opportunity to develop contacts in areas of potential employment. The Life Sciences Department encourages undergraduate students to gain research experience in faculty laboratories, and full time students enrolled for at least three credits of individualized instruction may apply for Salt River Project Science Scholarships.

Environmental Specialist program. The Department of Life Sciences has developed a curriculum articulation with the Maricopa Community Colleges for students interested in employment in environmental biology. This articulation is a highly-structured eight-semester sequence (four semesters at a Maricopa Community College and four semesters at ASU West) leading to the Bachelor of Science degree in Life Sciences. A required internship is included, as are courses in Geology, Computer Science, Communication, and Ethics. For information call (602) 543-6050 to make an appointment with a Life Sciences advisor.

Premedical course articulations to medical degrees.

Medical colleges base admission decisions on a variety of factors, including GPA, the courses a student has taken, scores in required national exams, extracurricular activities, and hands-on experience. All medical colleges in the United States have extensive science course prerequisites, including lower division courses in chemistry, physics, and biology. Many medical colleges have additional course requirements, often including courses in psychology, communication, or math as well as upper division biology or biochemistry courses.

The Department of Life Sciences has worked with local medical colleges, other departments in the College of Arts and Sciences, the College of Human Services, and the Maricopa Community Colleges to develop articulations of lower and upper division courses that satisfy the requirements of specific postbaccalaureate medical programs. Articulations are in place with two masters' level programs (Physician Assistant and Occupational Therapy) and one doctoral program (Physical Therapy) at the Arizona School of Health Sciences, with the Doctor of Osteopathic Medicine program at the Arizona College of Osteopathic Medicine (Midwestern University), and with the Doctor of Naturopathic Medicine program at the Southwest College of Naturopathic Medicine and Health Sciences. Students who complete the specified courses and satisfy admissions requirements receive preferred admission to these programs. For more information, make an appointment to talk with a Life Sciences advisor (602) 543-6050.

Career outlook

A degree in Life Sciences provides broad training in laboratory, data-gathering, writing, communication, quantitative, problem-solving, and critical thinking skills that prepare students for a wide variety of

careers. Life Sciences students may enter careers in laboratory or field research, business, scientific journalism, publishing, teaching, and medicine.

Laboratory technician or research associate positions are available in university and government research laboratories, hospital and diagnostic laboratories, and pharmaceutical, biotechnology, agricultural, and food processing companies. Laboratory experience at the undergraduate level, available in laboratories on and off campus, will enhance employability in these areas.

Students who emphasize field studies may prepare themselves for entry level positions in private companies as well as state and federal agencies. These positions include wildlife biologist, environmental consultant, conservation officer, and pest control officer. Participation in volunteer or paid internships in government agencies or private companies as an undergraduate will provide the student with experience valuable to potential employers.

The Bachelor of Science degree is appropriate for students who wish to enter Master's and Doctoral programs in basic or applied areas of biology.

Major requirements

The Bachelor of Science in Life Sciences requires a minimum of 31 semester hours of upper division course work in the major (plus BIO 181 and 182), as well as a minimum of 19 semester hours of course work in Chemistry, Physics, and Mathematics with a grade of "C" or better.

All students will complete one of the following emphases, which require a minimum of 21 semester hours of upper division courses:

Cell Biology and Physiology Emphasis
Ecology & Organismal Biology Emphasis
Human Biology and Environment Emphasis

	Semester Hours		Semester Hours
Required lower division courses:			
Biology (8 hours)		<i>Anatomy and Physiology</i>	
BIO 181 General Biology (SQ)	4	BIO 351 Developmental Anatomy (3)	
BIO 182 General Biology (SG)	4	BIO 385 Invertebrate Zoology (4)	
Chemistry (12-17 hours)		BIO 370 Vertebrate Zoology (4)	
At least two semesters of inorganic chemistry with lab and at least one semester of organic chemistry with lab.		BIO 465 Neurophysiology (3)	
Mathematics (3 hours)		<i>Topics</i>	
MAT 210 Brief Calculus (MA) <i>or</i> any calculus course	3	LSC 430 Environmental and Human Toxicology (4)	
Physics (4-8 hours)		LSC 484 Internship (1-12)	
PHY 101 Introduction to Physics* (SQ) <i>or</i>	4	LSC 499 Individualized Instruction (1-3)	
PHY 111 General Physics <i>and</i>	3	Elective	3
PHY 113 General Physics Laboratory (SQ) <i>and</i>	1	One upper division course with a BCH, BIO, LSC, MIC, or PLB prefix approved by the student's advisor. A Special Problems and Techniques (BIO 310), Internship (LSC 484), or Individualized Instruction (LSC 499) course may be used to fill this requirement.	
PHY 112 General Physics <i>and</i>	3		
PHY 114 General Physics Laboratory (SQ)	1	Total	<u>22</u>
Required upper division courses:			
Degree Core Courses			
BIO 340 General Genetics	4		
BIO 445 Organic Evolution	3		
LSC 300 Modes of Biological Thought (L)	3		

*Complete this ASU Main course or transfer equivalent.

Cell Biology and Physiology emphasis

The Cell Biology and Physiology emphasis is especially appropriate for students who plan careers in any area of molecular biology, medicine, or biotechnology. It emphasizes courses that are traditionally part of biomedical preparation, including biochemistry, physiology, and immunology, and combines these with the environmental perspective provided by environmental toxicology and the evolutionary framework of vertebrate zoology.

	Semester Hours		Semester Hours
Core courses			
BIO 353 Cell Biology	3	Core courses	
BIO 360 Animal Physiology	4	BIO 320 Fundamentals of Ecology	3
LSC 429 Capstone Course in Cell Biology and Physiology	3	BIO 415 Biometry (CS)	4
		LSC 439 Capstone Course in Ecology & Organismal Biology	3
Cluster options			
(three courses chosen from at least two of the following three groups)	minimum of 9	Cluster options	minimum of 9
<i>Cellular and Molecular</i>		(three courses chosen from at least two of the following three groups)	
BCH 361 Principles of Biochemistry (3)		<i>Organisms and Behavior</i>	
BIO 443 Molecular Genetics (3)		BIO 370 Vertebrate Zoology (4)	
LSC 342 Hormones and Behavior (3)		BIO 385 Invertebrate Zoology (4)	
MIC 420 Introductory Immunology (3)		BIO 386 General Entomology (4)	
		BIO 471 Ornithology (3)	
		BIO 473 Ichthyology (L) (3)	
		BIO 474 Herpetology (3)	

	Semester Hours
LSC 340 Behavioral Biology (3)	
LSC 342 Hormones and Behavior (3)	
PLB 300 Comparative Plant Diversity (L/SG) (4)	
<i>Ecological Systems</i>	
LSC 434 Marine Ecology (3)	
LSC 438 Landscape Ecology (3)	
<i>Topics</i>	
BIO 410 Techniques in Wildlife Conservation Biology (L) (3)	
LSC 346 Zoo Biology (3)	
LSC 405 Simulation Modeling (CS) (4)	
LSC 430 Environmental and Human Toxicology (4)	
LSC 484 Internship (1-12)	
LSC 499 Individualized Instruction (1-3)	
Elective	3
One upper division course with a BCH, BIO, LSC, MIC, or PLB prefix approved by the student's advisor. A Special Problems and Techniques (BIO 310), Internship (LSC 484), or Individualized Instruction (LSC 499) course may be used to fill this requirement.	
Total	<u>22</u>

Human Biology and Environment emphasis

Human Biology and Environment is the most interdisciplinary of the three emphases, and will draw students with wide-ranging interests. It is particularly appropriate for those planning careers in education in the broadest sense, including scientific journalism and interpretation of science for the public, as well as for classroom teachers. Furthermore, the broadly integrative nature of the human biology emphasis makes it an appropriate specialization for pre-medical students.

	Semester Hours
Core courses	
LSC 360 The Biology of Human Experience	3
LSC 362 The Human Environment	3
LSC 469 Capstone Course in Human Biology and Environment	3
Cluster options	minimum of 9
(one course from each of the following three groups)	
<i>Physiology/Ecology/Behavior</i>	
BIO 320 Fundamentals of Ecology (3)	
BIO 360 Animal Physiology (4)	
LSC 340 Behavioral Biology (3)	
LSC 342 Hormones and Behavior (3)	
LSC 430 Environmental and Human Toxicology (4)	
<i>Human Biology and Environment</i>	
LSC 438 Landscape Ecology (3)	
<i>Society and Philosophy</i>	
HPS 323 History of Science (HU, H) (3)	
HPS 330 History of Biology (H) (3)	
PHI 407 Environmental Philosophy and Policy (L/HU) (3)	
Elective	3
One upper division course with a BCH, BIO, LSC, MIC, or PLB prefix approved by the student's advisor. A Special Problems and Techniques (BIO 310), Internship (LSC 484), or Individualized Instruction (LSC 499) course may be used to fill this requirement.	
Total	<u>21</u>

Other options for electives in any emphasis. For any area of emphasis, Special Topics (LSC 394/494) and Practicum courses (LSC 480) can be used in a column deemed appropriate, with prior approval of the Life Sciences advisor. In each case, at least three credits must be taken. For individualized instruction or internships, at least three credits must also be taken.

Other courses may be used to fulfill the cluster options requirements with the approval of the program advisor. Courses may be added to or deleted from the cluster options selections by the department to meet curricular needs. See the program advisor for possible additions or substitutions.

Minor in Life Sciences

The minor consists of 23 hours in the life sciences, including BIO 181 General Biology and BIO 182 General Biology, LSC 300 Modes of Biological Thought, and

12 additional hours of courses with the prefixes BCH, BIO, LSC, MIC, or PLB offered by the Department of Life Sciences.

B.A.E. in Secondary Education

Biological Sciences specialization

The requirements for the Bachelor of Arts in Secondary Education with a specialization in the Biological Sciences consist of the Professional Teacher Preparation Program for Secondary majors. (See the “College of Education” section of this catalog.)

The program requires forty-two (42) semester hours in Life Sciences, of which 34 hours must be upper division. All academic specialization courses must be completed prior to student teaching. A grade of “C” or better is required in all academic specialization courses.

Most of the courses included in the specialization are offered only once a year, and some are offered only in alternate years. Students are advised to plan their entire schedule when they begin the program.

Required lower division courses:

- Life Sciences courses (8 hours)
1. BIO 181 General Biology
 2. BIO 182 General Biology
- Support courses (16-20 hours)
1. CHM 113 General Chemistry
 2. CHM 115 General Chemistry w/ Quantitative Analysis
 3. MAT 170 Precalculus
 4. PHY 101 Introduction to Physics* *or*
PHY 111, 112, 113, 114 General Physics

Required upper division courses:

1. LSC 300 Modes of Biological Thought
2. BIO 320 Fundamentals of Ecology
3. BIO 340 General Genetics
4. BIO 445 Organic Evolution
5. PLB 300 Comparative Plant Diversity
6. BIO 370 Vertebrate Zoology *or*
BIO 385 Invertebrate Zoology
7. BIO 360 Animal Physiology
8. BIO 353 Cell Biology *or*
CHM 361 Principles of Biochemistry
9. LSC 360 The Biology of Human Experience *or*
LSC 362 The Human Environment
10. LSC 434 Marine Ecology *or*
LSC 438 Landscape Ecology *or*
LSC 363 Genes, Race, and Society
11. BIO 480 Methods of Teaching Biology (PTPP Course)

Total in Life Sciences

Semester
Hours
24-28

34

42

*Complete this ASU Main course or transfer equivalent.

Social and Behavioral Sciences

Chair: Paul Miller, Ph.D.
Location: FAB N250-1
(602) 543-6061

The Department of Social and Behavioral Sciences offers students the opportunity to enroll in traditional social science courses (Anthropology, Family Studies, Geography, Politics, Psychology, and Sociology), as well as interdisciplinary courses. The faculty

offers interdisciplinary Bachelor of Arts and Bachelor of Science degree programs in Social and Behavioral Sciences and Bachelor of Arts and Bachelor of Science degree programs in Politics, Psychology, and Sociology.

Bachelor of Arts and Bachelor of Science Degrees in Social and Behavioral Sciences

Nature of program

The Bachelor of Arts and Bachelor of Science programs in Social and Behavioral Sciences provide an interdisciplinary foundation in the social and behavioral science disciplines. The objective of the Social and Behavioral Sciences degree program is to:

1. provide a basic understanding of the assumptions underlying the social and behavioral sciences;
2. develop the research skills necessary for the analysis of complex social issues;
3. offer a flexible program tailored to the career goals of the individual student; and
4. offer both individual and group experiences in working with faculty on concrete intellectual and policy issues.

The interdisciplinary program is designed to provide students with a substantive understanding of the theoretical assumptions and methodological techniques underlying the latter. Students can choose either a social science (ISS) or a behavioral science (IBS) emphasis. Each contains a number of course clusters: in the ISS emphasis they are titled

Identity/Difference, Power/Knowledge and Local/Global; in the IBS emphasis they are titled Biological Foundations, The Individual and the Family, and The Individual and the Group. All courses provide students with knowledge about the biological and/or social principles related to the behavior of individuals across multiple social contexts and institutions (family, community, society, and culture). For further details, please contact the department.

Career outlook

The interdisciplinary degrees are an excellent means of creating a degree program that both matches the individual's interests and fulfills many employers' expectations of a baccalaureate degree, namely that it should expose the student to varied outlooks and challenges. Such a degree will be competitive in most situations where the disciplinary social and behavioral degrees are accepted and is advantageous when seeking entry to broad professional programs such as regional planning or urban studies.

Major requirements

The Bachelor of Arts or Bachelor of Science in Social and Behavioral Sciences consists of 45 hours of required course work.

Students must select one of two emphases: Interdisciplinary Social Sciences or Interdisciplinary Behavioral Sciences. Each emphasis consists of:

- Required interdisciplinary core in theory and methodology
- Cluster requirements
- Electives

Interdisciplinary Social Sciences emphasis

		Semester Hours	
		B.A.	B.S.
Core requirements			
SBS	300	Interdisciplinary Approaches to Social and Behavioral Sciences (SB)	3 3
SBS	301	Cultural Diversity (L/SB, C)	3 3
SBS	302	Qualitative Methods (SB)	3 3
<i>or</i>			
SBS	303	Quantitative Methods	3 3
SBS	304	Social Statistics I (CS)	3 3
SBS	404	Social Statistics II (CS)	- 3
Cluster requirements			
Required topics courses:			
SBS	410	Topics in Identity/Difference	3 3
SBS	430	Topics in Power/Knowledge (SB)	3 3
SBS	450	Topics in Local/Global (SB, G)	3 3
Plus any three courses selected from among the following clusters:			
		<i>Identity/Difference</i>	9 9
		<i>Power/Knowledge</i>	
		<i>Local/Global</i>	
Electives			
Choose courses with prefixes: ASB, FAS, GCU, POL, POS, PGS, SBS, or SOC.			
Total			45 45

Interdisciplinary Behavioral Sciences emphasis

		Semester Hours	
		B.A.	B.S.
Core requirements			
SBS	300	Interdisciplinary Approaches to Social and Behavioral Sciences (SB)	3 3
—	—	Global Awareness <i>or</i> Cultural Diversity (courses from the department)	3 3
SBS	302	Qualitative Methods (SB)	3 3
SBS	303	Quantitative Methods	3 3
SBS	304	Social Statistics I (CS)	3 3
SBS	404	Social Statistics II (CS)	- 3
Cluster requirements			
Select courses from each cluster as indicated:			
		<i>Biological Foundations</i>	6 9
		<i>The Individual and the Family</i>	6 3
		<i>The Individual and the Group</i>	6 3
Electives			
Choose courses with prefixes: ASB, FAS, GCU, POL, POS, PGS, PSY, SBS, or SOC.			
Total			45 45

Alternative options for electives in either emphasis.

All course substitutions must be appropriately related to the student's interdisciplinary program of study within the major, as determined in consultation with and approved by a faculty advisor. A grade of "C" or better is required of all substitutions. The student may elect to combine options.

- Up to six credits of lower division courses in any of the social sciences for the ISS emphasis, or the behavioral sciences for the IBS emphasis.
- Up to six credits of upper division courses taken in related fields outside the SBS department.
- Senior Thesis: (a two-course sequence, six credits: SBS 490, SBS 491) Under the supervision of an SBS faculty member, students conduct research and write up the results as the Senior Thesis. The Senior Thesis is optional but strongly encouraged. For students who complete a thesis, the degree will be posted on the transcript with the notation "with Senior Thesis."

Minor in Social and Behavioral Sciences

The minor offers students an interdisciplinary focus across several fields of the social and behavioral sciences, including sociocultural anthropology, geography, politics, psychology, and sociology.

The minor consists of 18 credit hours, at least 12 hours of which must be in upper division courses. Two courses are required:

1. SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences
2. SBS 302 Qualitative Methods *or*
SBS 303 Quantitative Methods

The remaining courses must be drawn from at least two of the fields of social and behavioral sciences (including the SBS interdisciplinary prefix). Internships or individualized instruction/research may not be applied to the minor. All courses must be passed with a minimum grade of “C.” Students wishing to pursue a minor must meet with an SBS faculty advisor to construct a minor that reflects a particular area of specialty and interest.

Bachelor of Arts and Bachelor of Science Degrees in Politics

Nature of program

The Politics major provides students with the background and skills necessary to gain employment in a relevant profession or to continue their studies in graduate degree programs in political science, social science disciplines, or professional schools. The program is designed to help the student gain a basic understanding of the assumptions underlying political science as well as to help the student develop research skills necessary for analysis of complex sociopolitical issues. These are accomplished by offering a flexible program and by providing the student with both individual and group experiences in working with faculty on concrete intellectual and policy issues.

Career outlook

The baccalaureate degree in politics is a good precursor to a staff or management position in local, state, and federal agencies. Some graduates also work in Congress or assist state legislatures; some are elected to these bodies. Alternate careers are to be found in linking business interests and legislators or in commenting on the political scene as a journalist. In addition, a politics degree is a recognized qualification for many careers in business and industry, particularly as these become more global in scope. Some students view a degree in politics as a valuable gateway to law school; many use it as a basis for further study in fields such as planning or community development.

Major requirements

The Bachelor of Arts and the Bachelor of Science degrees in Politics each consist of 45 semester hours, 21 hours of which must be in POL courses and at least 21 hours must be in upper division courses.

The following courses are required for a B.A. or B.S. degree:

1. POS 101 Political Ideologies (SB) *or*
POL 340 Political Theory (L/HU, H)
2. POS 110 Government and Politics* (SB) *or*
POL 310 American National Government:
Ideas and Institutions (SB, H)
3. POS 160 Global Politics* (SB, G) *or*
POL 360 World Politics Theory (SB, G)
4. SBS 302 Qualitative Methods (SB) *or*
SBS 303 Quantitative Methods
5. SBS 304 Social Statistics I (CS) (B.S. only)

**Complete this ASU Main course or transfer equivalent.*

The Politics major is divided into three clusters: (1) Political Economy and Inequality; (2) Politics and Ideas in the Americas; and (3) Global Studies and International Relations. A total of 18 credits are required

from the clusters as follows: three POL courses, one from each cluster (nine credits) and three additional courses (nine credits) from any of the three clusters. Courses may not be counted for more than one cluster. See the department advisor for the approved list of cluster courses.

For the B.A., 15 semester hours of electives are required. For the B.S., 12 semester hours of electives are required. Electives may be taken from among other POL courses or from courses in the following related fields: Administration of Justice, American Studies, Anthropology, Communication Studies, Economics, Geography, History, Psychology, Sociology, and Women's Studies. Up to six credits of lower division courses in Politics or the above-listed fields may be used to fulfill electives. One to six credits of POL internship may also be taken to fulfill the electives. No more than six hours of internship may be applied toward the major.

Minor in Politics

The minor in Politics consists of 18 semester hours in POL courses, 12 hours of which must be in upper division courses. The following courses are required for a Minor in Politics:

1. POS 101 Political Ideologies *or*
POL 340 Political Theory
2. POS 110 Government and Politics* *or*
POL 310 American National Government:
Ideas and Institutions
3. POS 160 Global Politics* *or*
POL 360 World Politics Theory

**Complete this ASU Main course or transfer equivalent.*

Three additional Politics (POL) courses (nine credits) are required and must be selected from among the POL courses listed in the course clusters. No more than three hours of internship and three hours of individualized instruction may be applied to the minor.

Nature of program

Psychology is the scientific study of the behavior and mental processes of individuals and groups. The ASU West program provides a diverse curriculum of basic and applied courses in various perspectives of the psychology field, including clinical, cognitive systems/behavioral neuroscience, cross-cultural, developmental, organizational, and social psychology. Courses are presented in the context of cultural, sociohistorical, and transnational issues, enabling the student to understand the relationship between psychology and other social and behavioral sciences.

Students may add practical experiences to enrich their program of study through service learning, internships, and research with individual faculty members. A strong emphasis is placed on developing skills in critical thinking and reasoning, quantitative and qualitative research methods, and writing to round out the student's preparation for a career or graduate studies.

Career outlook

A baccalaureate degree in psychology is a logical choice for careers in the mental health professions, the social services, education, government, and many areas of business, (e.g., sales and marketing, human services management). It is also an excellent foundation for graduate study in fields such as public administration, law, family studies, communication, and the various programs of psychology such as clinical and counseling, developmental, environmental, experimental, physiological, and social.

Major requirements

The Bachelor of Arts and the Bachelor of Science programs in Psychology consist of 31 semester hours in psychology and 18 semes-

ter hours of related course work, including at least 15 upper division hours. Required course work in the major, or the equivalent, which must be passed with a minimum grade of "C."

Required lower division courses

PGS 101 Introduction to Psychology (SB)
PSY 230 Introduction to Statistics (CS)
PSY 290 Research Methods (SG)

Required upper division psychology courses

One course from the following:

PGS 315 Personality Theory and Research (SB)
PGS 341 Developmental Psychology (SB)
PGS 350 Social Psychology (SB)

One course from the following:

PSY 323 Sensation and Perception
PSY 324 Memory and Cognition (SB)
PSY 325 Physiological Psychology

Additional required psychology courses

1. one additional upper division PSY course (excluding PSY 494 Special Topics and PSY 499 Individualized Instruction);
2. two additional upper division psychology courses (PGS or PSY); and
3. two additional psychology courses (excluding PGS 270 Psychology of Adjustment).

No more than a total of three hours in PGS 399 Supervised Research and PGS/PSY 499 Individualized Instruction combined may be used to complete the 15 hours of upper division requirements. Students may take a maximum of six hours of PGS 399 Supervised Research and six hours of PGS/PSY 499 Individualized Instruction combined. PGS 484 Internship may be taken for elective credit only.

Related Course Work Requirements. Eighteen hours in courses related to psychology must be passed with a minimum grade of "C." They must be approved by an advisor and include:

One course from among:

CSE 180 Computer Literacy (CS)
CSE 185 Internet and the World Wide Web*

For the Bachelor of Arts in Psychology:

MAT 119 Finite Mathematics (MA)
(or higher level math course)

For the Bachelor of Science in Psychology:

1. MAT 210 Brief Calculus (MA)
2. one life science lab course from Biology, Microbiology, or Zoology
3. one physical science lab course from Astronomy, Chemistry, Geology, or Physics

The lab science courses taken to satisfy the Bachelor of Arts and the Bachelor of Science requirements (including PSY 290) are in addition to the lab science courses used to meet the University General Studies requirements.

**Complete this ASU Main course or transfer equivalent.*

Minor in Psychology

The minor consists of 22 hours in psychology, including the following:

Required lower division courses

PGS 101 Introduction to Psychology
PSY 230 Introduction to Statistics
PSY 290 Research Methods

Required upper division courses

One from the following:

PGS 315 Personality Theory and Research
PGS 341 Developmental Psychology
PGS 350 Social Psychology

One from the following:

PSY 323 Sensation and Perception
PSY 324 Memory and Cognition
PSY 325 Physiological Psychology

Two additional upper division psychology courses are required (PGS or PSY). A maximum of three hours of research (PGS 399 Supervised Research and PGS/PSY 499 Individualized Instruction) may be used to meet the minor requirements. Students with an appropriate equivalent course may exclude PSY 230 Introduction to Statistics and PSY 290 Research Methods from the requirements. PGS 484 Internship may be taken for elective credit only. All courses must be passed with a minimum grade of "C."

Bachelor of Arts and Bachelor of Science Degrees in Sociology

Nature of program

The Sociology major provides students with the background and skills necessary to gain employment in corporate or governmental organizations or to continue their studies in graduate degree programs in sociology, social science disciplines, or professional schools.

The program is designed to help the student gain a basic understanding of the assumptions underlying the discipline of sociology as well as to help the student develop research skills necessary for analysis of complex social issues. These are accomplished by offering a flexible program and by providing the student with both individual and group experiences in working with faculty on concrete intellectual and policy issues.

Career outlook

Graduates with a baccalaureate degree in sociology apply the sociological perspective to a wide variety of jobs in such sectors as business, the health professions, the criminal justice system, social services, and government. The discipline also offers valuable preparation for careers in journalism, politics, public relations, or public administration, all fields that involve investigative skills and an ability to work with diverse groups.

Graduates with an advanced degree in sociology may become research analysts, survey researchers, gerontologists, statisticians, urban planners, community developers, criminologists, or demographers.

Major requirements

The Sociology major consists of 45 semester hours, of which 30-33 must be in sociology and 12-15 in closely related fields approved by the faculty advisor in consultation with the student. At least 18 semester hours must be in upper division courses. The 30 hours must include:

		Semester Hours	
		B.A.	B.S.
Required core			
SOC	101 Introductory Sociology (SB)	3	3
		<i>or</i>	<i>or</i>
SOC	301 Principles of Sociology (SB)	3	3
SBS	302 Qualitative Methods (SB)	3	3
		<i>or</i>	
SBS	303 Quantitative Methods	3	3
SBS	304 Social Statistics I (CS)	3	3
SOC	486 Contemporary Theory (SB)	3	3

Semester Hours
B.A. B.S.
 18 18

Cluster requirements

Students are required to take one course from three of the four clusters (nine credits) and three additional courses (nine credits) from any of the four clusters:

Culture and Power
Social Conflict and Change
Family, Work, and Community
Social Inequality: Race, Class, and Gender

Electives

The remaining 12-15 hours may be taken from other courses in Sociology or from courses in related fields: Administration of Justice, Anthropology, American Studies, Geography, Integrative Studies, Politics, Psychology, and Women's Studies.

15 12

Minor in Sociology

The minor in Sociology requires 18 hours in sociology, nine of which must be upper division, including:

1. SOC 101 Introductory Sociology *or* SOC 301 Principles of Sociology
2. SBS 303 Quantitative Methods *or* SOC 486 Contemporary Theory
3. Four additional sociology courses to be selected in consultation with the student's advisor in sociology.

Social Studies specialization

The requirements for the Bachelor of Arts in Secondary Education with a specialization in Social Studies consist of the Professional Teacher Preparation Program for Secondary majors (see the “College of Education” section of this catalog) and 60 semester hours in social and behavioral sciences course work, of which 40 hours must be upper division. Students must distribute their courses according to one of three options.

Option A

- 30 hours in a primary discipline
- 18 hours in a secondary discipline
- 12 hours in a third discipline

Option B

- 30 hours in a primary discipline
- 15 hours in each of two secondary disciplines

Option C

- 30 hours in a primary discipline
- 12 hours in each of two secondary disciplines
- six hours in a fourth discipline

The disciplines from which students must choose their courses at ASU West include Administration of Justice, Anthropology, Geography, History, Politics, Psychology, and Sociology.

Minor in Sociocultural Anthropology

The Sociocultural Anthropology minor focuses on sociocultural anthropology with an interdisciplinary social science component. The minor requires 18 semester hours, at least 12 hours of which must be in upper division courses. Two courses, ASB 311 and SBS 302, are required. The other 12 hours may be drawn from ASB courses and from several key SBS courses in the interdisciplinary social science degree at ASU West. All courses must be passed with a minimum grade of “C.”

Upper division ASB courses offered at ASU Main may be applied toward the Minor in Sociocultural Anthropology. Up to six hours of lower division ASB credit and three hours of Individualized Instruction (ASB 499) may also be applied toward the Minor.

Required upper division courses:

- ASB 311 Principles of Social Anthropology
- SBS 302 Qualitative Methods

Select 12 hours from the following:

- ASB 319 Indigenous Peoples of North America
- ASB 340 Migration and Culture
- ASB 346 Marriage and Family Diversity
- ASB 350 Anthropology and Art
- ASB 353 Death and Dying in Cross-Cultural Perspective
- ASB 440 Women and the Global Factory
- ASB 441 Sexuality and Culture
- ASB 442 Urban Anthropology
- ASB 394/494 Special Topics
- ASB 499 Individualized Instruction (3 hours maximum)
- SBS 301 Cultural Diversity
- SBS 410 Topics in Identity/Difference
- SBS 430 Topics in Power/Knowledge
- SBS 440 Family Studies
- SBS 450 Topics in Local/Global
- SBS 460 Urban Studies
- Other approved course

Nature of program

Women's Studies is an interdisciplinary program with strong cross-cultural, national, and global perspectives at the center of the curriculum. Both curriculum transformation and social change are central to the program. The curriculum includes courses offered by the Women's Studies Program and by other academic programs and departments throughout the university. Women's Studies courses can be used to fulfill the requirements of the Bachelor of Arts, Bachelor of Science, Minor, and Certificate in Women's Studies. The courses also fulfill General Studies requirements and serve as electives. Following are the goals of the Women's Studies Program:

- To provide the university and the community with academic programs of study and research that place women at the center of the university curriculum.
- To provide a model for interdisciplinary teaching and research with cross-cultural, national, and global perspectives on women.

- To generate and facilitate research on women's experience and the social construction of gender.
- To stand as a visible example of the university's commitment to improve the status of women.

Women's Studies offers the following academic programs:

B.A., B.S. Women's Studies
Certificate in Women's Studies

Career outlook

Women's Studies majors receive a valuable educational background that provides the knowledge and critical thinking skills needed to deal with changing gender roles in our society. A major, minor, or certificate in Women's Studies prepares students for opportunities in many settings: business and professional schools, education and training, health care services, human resources development, public and business administration, social services, and graduate study in the humanities and social sciences.

Bachelor of Arts or Bachelor of Science Degrees in Women's Studies

Major requirements

The major consists of 45 semester hours, 30 in Women's Studies and 15 in a coherent set of related courses. At least 30 of the 45 semester hours required for the major must be completed in upper division courses. In addition, for the B.S. degree, students must complete six hours of statistics, computer science, or quantitative research methods. This sequence must be approved by the Women's Studies advisor.

B.S. degree students must complete six hours of statistics, computer science, or quantitative research methods. This sequence must be approved by the Women's Studies advisor.

Core requirements. (21 hours)

1. WST 100 Women and Society (SB, C) *or*
WST 300 Women in Contemporary Society (L/SB, C)
2. WST 350 Race, Class, and Gender (SB, C)
3. WST 457 Women, Cultures, and Societies (SB, G)
4. WST 498 Proseminar: Theory and Method in Women's Studies (L)

5. One course with a *global perspective* selected from the following:
 - WST 390 Women and World Religions (L/SB, G)
 - WST 461 Contemporary Latin American Women Writers (L/HU, G)
 - WST 475 Women of the Diaspora Across Cultures (HU, G)
 - WST 483 Contemporary Women Writers (HU, G)
 - WST 487 Gender and International Development (SB, G)
 or other approved course
6. One course with a *focus on representation* selected from the following:
 - WST 370 Chronicling Women's Lives (HU, H)
 - WST 376 Feminist Theory (L, C)
 - WST 467 Ethnic Women Writers (L/HU, C)
 - WST 473 Latina/Chicana Representation (SB, C)
 - WST 480 Gender Issues in Education (SB, C)
 or other approved course
7. One course with *focus on culture studies* selected from the following:
 - WST 312 Language, Gender, and Society (HU, C)
 - WST 320 Women in Popular Culture (HU, C, H)
 - WST 431 Women and Film (L, G)
 or other approved course

No course may be used to satisfy more than one of these seven core requirements. Students must complete all course work in the major with a grade of "C" or better. No

pass/fail credit may be used for major requirements.

Electives. In addition to the 21 hours of core requirements, students must complete an additional nine hours of courses from those offered by the Women's Studies Program and fifteen hours of work in related courses. The plan for completing the related courses requirement must be worked out with and approved in writing by the Women's Studies advisor.

Internships. Women's Studies offers internships with business and nonprofit organizations that are designed to enable students to balance theory with practice, to gain valuable training, and to serve as potential placement opportunities. Women's Studies students at their own initiative have the opportunity to work with organizations as varied as Planned Parenthood, the Women's Studies Resource Center-ASU West, the Center for New Directions, Motorola, and Viad.

Certificate Program in Women's Studies

A Certificate in Women's Studies is awarded for the successful completion of all 21 hours of core requirements. The Certificate

Program is recommended for graduate students, non-degree students, and students with majors in professional programs.

Minor in Women's Studies

The Women's Studies minor consists of 18 semester hours. Required courses consist of WST 100 (or WST 300), WST 350, WST 457, WST 498, and one course each in *two*

of the following three areas: global, representation, culture studies.

Ethnic Studies Program

Director: Gloria H. Cuádriz, Ph.D.
Program Coordinator: Hortencia Gutierrez
Location: FAB N204
(602) 543-6007

Nature of program

The Minor and Certificate in Ethnic Studies explore the study of ethnicity within the United States. The program is designed to foster direct linkages between the university and community through student participation in community based internships that are a keystone to the program. With an emphasis on service learning that combines the acquisition of analytical skills from classroom instruction and work experience gained through community-based organization internships, students are placed at a significant advantage in acquiring jobs in the state and local labor market.

Courses in the Ethnic Studies minor and certificate are designed to:

1. address theoretical, analytical, and practical issues relevant to understanding race, culture, and ethnicity in American society from a comparative and interdisciplinary perspective;
2. enhance the student's critical thinking and writing skills through the study of ethnicity in the United States;

3. develop more effective skills for working in diverse communities through integration of service-learning experiences in course content; and

4. create collaborations among faculty, students, and community members to address concrete issues facing racial and ethnic groups in the United States.

This minor/certificate is designed for students who plan to work and live in ethnically diverse communities and seek to acquire the skills for understanding the complexities of race, class, and gender at a local or national level. It is expected that students in the minor/certificate program will be able to think both analytically and creatively about ethnicity in the United States. The minor or certificate is strongly recommended for students who plan to enter a wide variety of jobs in such sectors as business, the health professions, the criminal justice system, social services, education, public relations, community development, public policy, or government. It is also valuable for students preparing for further graduate study.

Minor in Ethnic Studies

The minor consists of 21 semester hours, 15 of which must be at the upper division level. Students are encouraged to take courses that develop breadth rather than limiting their selection to courses in one particular discipline. Up to three semester hours of individualized instruction may be applied toward the minor. All courses must be passed with a minimum grade of "C."

Required courses

ETH 300 Principles of Ethnic Studies (C)
ETH 484 Ethnic Studies Internship

Electives

Five courses selected from the approved Ethnic Studies course list in consultation with the Ethnic Studies advisor.

Semester
Hours
6

15

Certificate in Ethnic Studies

The Certificate Program is recommended for graduate students, non-degree students, and students with majors in professional pro-

grams. A certificate in Ethnic Studies is awarded for the successful completion of the 21 semester hours required for the minor.

Religious Studies Minor

Minor in Religious Studies

Interim Director: Linda Stryker
Location: FAB N277
 (602) 543-6024

The Minor in Religious Studies consists of 21 semester hours of Religious Studies coursework, of which 18 must be upper division hours. Fifteen hours of campus resident credit is required. Only courses in which the student earns a minimum grade of “C” can be counted toward the minor. Courses are to be selected in consultation with a Religious Studies advisor to create a coherent and complete program of study for the minor. Optionally, students may wish to include in their program of study either 1) a Religious Studies Senior Thesis, written with the supervision of a faculty member or 2) an appropriate internship.

Required courses

At least one course from the following:

- AMS 417 Religious Traditions of the American Southwest
- REL 320 Religion in America (to Civil War)
- REL 321 Religion in America (after Civil War)
- REL 420 Religion in American Life and Thought

At least two courses from the following:

- REL 305 Ritual, Symbol, and Myth
- REL/WST 390 Women and World Religions
- ENG 475 Milton
- HIS 363 The Reformation
- IAS/REL 494 Science and Religion
- AMS/REL 494 Psychology of Religion

At least one Special Topics Course:

AMS/COM/IAS/REL/WST 394/494

Examples of topics may include: Spiritual Narratives, Communication as Theology, Testimony in a Post-Metaphysical World, The Goddess Religions, Gender and the Environment

One capstone course (optional)

AMS/IAS/WST 484 Internship

AMS/COM/IAS/REL/WST 499 Individualized Instruction or Senior Thesis

Master of Arts Degree in Interdisciplinary Studies

Master of Arts Degree in Interdisciplinary Studies

Director: Andrew Kirby, Ph.D.
Location: FAB N201F
 (602) 543-6241

Nature of program

The Master of Arts Degree in Interdisciplinary Studies is a graduate program designed to respond to the needs of postbaccalaureate students who wish to pursue an advanced degree for (1) job advancement or redirection, (2) personal development and intellectual growth, or (3) preparation for further graduate study. Prospective students include those working in the public educational system, particularly secondary education teachers who intend to increase and integrate their knowledge in content areas; those employed in the corporate sector and social service system; and professionals

who wish to return to the university and pursue enrichment in liberal arts areas.

The Master of Arts degree in Interdisciplinary Studies will comprise 30 hours of coursework. Two required core courses will develop advanced critical thinking skills and knowledge of current research tools, technologies, and methodologies in a variety of fields. Students will then choose a minimum of two foundation courses that expand on the broad interdisciplinary themes of the core through in-depth study of culture, change, mind, contemporary issues, and models of inquiry. Working with a faculty mentor, each student will plan a set of emphasis courses to meet

their educational goals. Emphasis courses may be selected from graduate course offerings from departments throughout the College of Arts and Sciences as well as from other colleges and schools. Examples include a plan to study ethics and environment, media and ethnicity, urban studies, and the arts. The program of study may include one elective course and will conclude with a capstone experience requiring a written or applied project.

Admission

Admission to the master's program is open to:

1. holders of baccalaureate degrees from institutions with regional accreditation;
2. those who show promise of success as demonstrated by previous schooling and experience;
3. those who have academic and career goals that are compatible with the educational objectives of the program; and
4. those who have taken the Graduate Record Examination (GRE) or Miller Analogies Test or completed a graduate degree.

Application. Application packets are available from the Office of Graduate Studies and the Master of Arts in Interdisciplinary Studies Program Office. The Office of Graduate Studies at ASU West must receive the application, application fee and an official transcript from every university or institution attended before an application can be considered. GRE or MAT scores must be sent directly to ASU. On the appropriate program forms, letters of recommendation, a resume, a writing sample, and a personal statement must be sent to the program office. The suggested application deadlines are June 1 for fall semester and November 1 for the spring semester.

Students may elect to take the degree in conjunction with the Graduate Certificate in Gerontology (see page 218), with the 21 hours of study for the latter constituting the

core of the program of study for the M.A. Contact either program for details.

The application, application fee, and transcripts should be sent to:

Graduate Studies
Arizona State University West
P.O. Box 37100
Phoenix, AZ 85069-7100

All other information for admission processing should be sent to:
M.A. in Interdisciplinary Studies Program
College of Arts and Sciences
P.O. Box 37100
Phoenix, AZ 85069-7100

Admission process. Each application is reviewed by a faculty committee. The candidate will be selected after consideration of the undergraduate grade point average, GRE or MAT scores, academic and work experiences, letters of recommendation*, personal statement*, and writing sample*. (**As specified by program application forms.*)

Program requirements

The M.A. in Interdisciplinary Studies is a 30 semester hour degree program that includes:

	Semester Hours
Required courses	
MAS 501 Models of Inquiry for Contemporary Issues	3
MAS 505 20th Century Thought: Concepts of Change, Culture, Mind	3
MAS 585 Capstone Course	3
Foundation courses	
At least two courses from the following:	
MAS 510 Science and Religion: Cosmologies and Worldviews	
MAS 511 Technology, Environment and Humanity	
MAS 512 History and Philosophy of the Social Sciences	
MAS 513 Sociology of Everyday Life	
MAS 553 Latin American Cities	
Other approved courses	12
Emphasis area	12
Elective	0-3

Emphasis area. Working with a faculty mentor, students will select 12 semester hours of graduate level coursework that reflect a particular area of specialty or interest.

American Studies

AMS 301 Introduction to American Studies (3)

fall only

Introduction to the interdisciplinary study of American culture. Course emphasizes critical reading and writing skills. Cross-listed as HIS 301. Prerequisite: ENG 101 (or 105). General studies: L.

AMS 310 American Systems (3)

fall only

First of a two-part survey of political, legal, and economic institutions, placed in the context of a dynamic industrialist capitalist society. Cross-listed as HIS 305. Prerequisite: ENG 101 (or 105). General studies: L, C, H.

AMS 311 American Systems (3)

spring only

Second in a two-part survey of political, legal, and economic institutions, placed in the context of a dynamic industrialist capitalist society. Cross-listed as HIS 306. Prerequisite: ENG 101 (or 105). General studies: L, C, H.

AMS 314 Military Studies (3)

not regularly offered

Topics in the history of the American military. May be repeated for credit when topics vary.

AMS 316 American Religious Systems (3)

not regularly offered

Topics in American religion. May be repeated for credit when topics vary. Topics may include Hispanic missions of the Southwest.

AMS 320 American Cultures (3)

fall only

First of a two-part survey of American culture, broadly defined as historically transmitted patterns of meaning expressed in symbolic forms, i.e., in philosophy, science, art, literature, and religion. Cross-listed as HIS 303. General studies: SB, H.

AMS 321 American Cultures (3)

spring only

Second of a two-part survey of American culture, broadly defined as historically transmitted patterns of meaning expressed in symbolic forms, i.e., in philosophy, science, art, literature, and religion. Cross-listed as HIS 304. General studies: SB, H.

AMS 322 Studies in American Literature (3)

not regularly offered

Topics in American literature. May be repeated for credit when topics vary.

AMS 323 Studies in American Art and Architecture (3)

not regularly offered

Topics in the visual arts and material culture. May be repeated for credit when topics vary.

AMS 326 Popular Culture (3)

not regularly offered

Topics in American popular culture, including theories of popular culture, the history and analysis of mass media including television, film, and the music industry, and vernacular art and the “folk” tradition. May be repeated for credit when topics vary.

AMS 327 Regional Cultures (3)

not regularly offered

Examination of the concept of regionalism and regional cultures in America with a special emphasis on the Southwest/Borderlands.

AMS 330 Introduction to American Lives (3)

fall and spring only

An examination of American society through the study of autobiography and ethnography.

General studies: C.

AMS 332 Studies in Race and Ethnicity (3)

not regularly offered

Topics relating to issues of race and ethnicity in American life. May be repeated for credit when topics vary.

AMS 334 The American Class System (3)

not regularly offered

Studies in social classes and their function within American society. May be repeated for credit when topics vary.

AMS 335 American Biography (3)

not regularly offered

Topics in biographies of individuals, comparative biographies, the art of biography, and the function of autobiography. May be repeated for credit when topics vary.

AMS 342 Writing about American Culture (3)

not regularly offered

This course is designed to teach students methods of writing cultural criticism. Emphasis is on the essay form.

AMS 344 Creative Writing (3)

not regularly offered

Emphasizes the study and practice of creative nonfiction. May be repeated for credit when topics vary.

AMS 345 Reporting (3)

not regularly offered

Fundamentals of news gathering, interviewing, and in-depth reporting.

AMS 346 Editing (3)

not regularly offered

Theory and practice of editing.

AMS 350 Writing Consultation (1)

fall, spring, summer

One-on-one consulting and practice in expository writings, drafting, revising, critiquing, and collaborative methods. Corequisite: core writing course in Writing Certificate Program.

AMS 351 Technical Writing (3)

fall only

Computer-based instruction in writing documents for on-line, oral, and print formats, focusing on audience-centered rhetoric. Hand-on lab. Prerequisite with a grade of “C” or higher: ENG 102 (or 105).

AMS 412 Studies in American Politics and Law (3)

not regularly offered

Topics in American political and legal systems. May be repeated when topics vary. Topics may include social movements in the United States and women and the law.

AMS 414 Military Studies (3)

not regularly offered

Topics in the history of the American military. May be repeated for credit when topics vary.

AMS 417 Religious Traditions of the American Southwest (3)

spring only

Examines the sacred traditions that have evolved within the North American Southwest context. General studies: H, C.

AMS 422 Studies in American Literature (3)

not regularly offered

Topics in American literature. May be repeated for credit when topics vary. Topics may include contemporary American comic fiction, literature of the American South, the literature of American wars, Hispanic chronicles of the Southwest, literature of la Chicana, and American rhetoric. Prerequisite: ENG 101 (or 105). General studies: L/HU.

AMS 426 Popular Culture (3)

not regularly offered

Topics in American popular culture, including theories of popular culture, the history and analysis of mass media including television, film, and the music industry, and vernacular art and the “folk” tradition. May be repeated for credit when topics vary.

AMS 427 Regional Cultures (3)

not regularly offered

Examination of the concept of regionalism and regional cultures in America with a special emphasis on the Southwest/Borderlands. Prerequisite: ENG 101 (or 105). General studies: L.

AMS 428 Chicano Cultures in the Southwest (3)

fall only

This course examines and explores Chicana/o culture as place and sentiment. The physical place and space and the sentiment related to Chicanas/os. General studies: SB, H.

AMS 429 Interdisciplinary Topics (3)

not regularly offered

Senior-level seminar that examines issues relevant to two or more American cultures’ fields. May be repeated for credit when topics vary. Topics may include Southwest/border Hispanic folklore, Southwestern corridors, American art and the city, and the West of the imagination.

AMS 431 Gender Studies (3)

not regularly offered

Topics relating to issues of gender in American life. May be repeated for credit when topics vary.

AMS 432 Studies in Race and Ethnicity (3)

not regularly offered

Topics relating to issues of race and ethnicity in American life. May be repeated for credit when topics vary.

AMS 490 Writing Certificate Portfolio (1)

fall, spring, summer

Preparing a portfolio demonstrating advanced writing skills. Limited to and required of students in the Writing Certificate Program. Prerequisite: completion of course work for Writing Certificate Program.

AMS 494 Special Topics (3)

fall and spring only

Senior-level seminar exploring issues or topics from the perspective of each of the three tracks in American Studies. Topics may include American environment, exploration of America, modernism and modernity, the 1920s: age of experiment.

AMS 498 Proseminar (3)

spring only

Senior-level exit seminar for American Studies majors.

Anthropology

ASB 102 Introduction to Cultural and Social Anthropology (3)

spring only

Principles of cultural and social anthropology, with illustrative materials from a variety of cultures. The nature of culture. Social, political, and economic systems; religion, aesthetics, and language. General Studies: SB, G.

ASB 311 Principles of Social Anthropology (3)

fall only

Comparative analysis of domestic groups and economic and political organizations in primitive and peasant societies. Prerequisite: ENG 101 (or 105). General studies: L/SB, G, H.

Key to General Studies

Credit Abbreviations

L Literacy and critical inquiry core courses

MA Mathematics core courses

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, and / or

ASB 319 Indigenous Peoples of North America (3)
spring only

Ethnology of the range of Native North American Indian cultural history. Comparative analysis of historical and contemporary issues.

ASB 340 Migration and Culture (3)

not regularly offered

Examines migration and culture embedded in a transnational field of social, economic, and political processes. General studies: SB.

ASB 346 Marriage and Family Diversity (3)

fall and spring only

Social, economic, and cultural factors that shape family diversity in relation to generational and gender dynamics within the family. General studies: SB, C.

ASB 350 Anthropology and Art (3)

spring only

Art forms of people in relationship to their social and cultural setting. Prerequisite: ASB 102 or instructor approval. General studies: HU.

ASB 353 Death and Dying in Cross-Cultural Perspective (3)

fall and spring only

Humanistic and scientific study of aging, sickness, dying, death, funerals, and grief and their philosophy and ecology in non-Western and Western cultures. Cross-listed as SOC 353. General studies: HU/SB, G.

ASB 394 Special Topics (3)

fall and spring only

Topics may include anthropology of gender, cross-cultural perspectives on art.

ASB 440 Women in the Global Factory (3)

not regularly offered

Examines the impact of Third World women's incorporation into the new global division of labor in the late 20th century. General studies: SB, G.

ASB 441 Sexuality and Culture (3)

not regularly offered

This course uses a global, comparative approach to examine the cultural and historical construction of sexualities. General studies: SB, G.

ASB 442 Urban Anthropology (3)

not regularly offered

Issues in understanding urban culture and social space from interdisciplinary anthropological perspective. May involve fieldwork. May be repeated for credit when topics vary. General studies: SB.

Art**ART 301 Photography II (3)**

not regularly offered

Photography as an art medium with additional exploration into personal photographic aesthetics. 6 hours a week. Fee or deposit. Prerequisites: ART 113 and 115 and 201 or instructor approval.

ART 304 Advanced Photography (3)

not regularly offered

Interpretation and manipulation of light as a tool in the performance of expressive photography. 6 hours a week. Fee or deposit. Prerequisite: ART 301 or instructor approval.

ART 314 Life Drawing II (3)

not regularly offered

Drawing from the model with greater reference to structural, graphic, and compositional concerns. 6 hours a week. Fee or deposit. Prerequisite: ART 214 or instructor approval.

ART 315 Life Drawing III (3)

not regularly offered

The human figure as the subject for drawing. Emphasis on conceptual alternatives and management of materials. 6 hours a week. Fee or deposit. Prerequisite: ART 314 or instructor approval.

ART 323 Painting II (3)

not regularly offered

Development of competency in skills and expression. Assigned problems involve light, space, color, form, and content. 6 hours a week. Prerequisite: ART 223 or instructor approval.

ART 324 Painting III (3)

not regularly offered

Continuation of ART 323. 6 hours a week. Prerequisite: ART 323 or instructor approval.

ART 325 Figure Painting (3)

fall only 2002

The human figure clothed and nude as the subject for painting in selected media. 6 hours a week. Fee or deposit. Prerequisites: ART 314 and 323.

ART 394 Special Topics (3)

not regularly offered

Topics may include music videos, rock culture and the avant garde, aesthetics of visual perception.

ART 414 Advanced Life Drawing (3)

not regularly offered

Various media and techniques on an advanced level. The human figure as an expressive vehicle in various contexts. 6 hours a week. May be repeated for credit. Fee or deposit. Prerequisite: ART 315 or instructor approval.

ART 425 Advanced Figure Painting (3)

not regularly offered

Continuation of ART 325, 6 hours a week. May be repeated for credit. Fee or deposit. Prerequisites: ART 315 and 324 and 325.

ART 598 Special Topics (3)

not regularly offered

Topics may include problem painting, problem life drawing, life drawing.

Art Auxiliary

ARA 460 Gallery Exhibitions (3)

not regularly offered

Practical experience in all phases of department gallery operations and preparation of gallery publications. May be repeated once for credit. Prerequisite: instructor approval.

ARA 488 Understanding Art (3)

not regularly offered

Understanding art as an emergent cultural phenomenon with an emphasis on a critical examination of conceptual issues in art. Writing required.

Prerequisites: ARS 101 and 102 or instructor approval. General studies: HU.

Art History

ARS 101 Art of the Western World I (3)

fall only

History of Western art from the Paleolithic period through the Middle Ages. General Studies: HU, H.

ARS 102 Art of the Western World II (3)

spring only

History of Western art from the Renaissance to the present. General Studies: HU, H.

ARS 300 Introduction to Art (3)

not regularly offered

Development of understanding and enjoyment of art and its relationship to everyday life through the study of painting, sculpture, architecture, and design. May not be taken for credit by student who has completed ARS 100 (available at ASU Main). General studies: HU.

ARS 340 Art in America (3)

not regularly offered

American art from colonial times through the Second World War. Not available to students who have had ARS 444 (available at ASU Main). Prerequisites: ARS 101 and 102 or instructor approval. General studies: HU.

ARS 438 Art of the 20th Century I (3)

not regularly offered

Developments and directions in art between 1900 and World War II. Prerequisites: ARS 101 and 102 or instructor approval. General studies: HU.

ARS 439 Art of the 20th Century II (3)

not regularly offered

Art since World War II, with consideration of new concepts and experimentation with media and modes of presentation. Prerequisites: ARS 101 and 102 and 438 or instructor approval. General studies: HU, H.

ARS 494 Special Topics (3)

not regularly offered

Topics may include art of the Southwest.

Astronomy

AST 301 Discovering the Sun and its Planets (3)

not regularly offered

Comprehensive course in astronomy for non-science majors. Course will include lectures, written assignments, and hands-on work. Not open to students with credit in AST 111 or equivalent.

AST 302 Modern Astronomy (3)

not regularly offered

Comprehensive course in astronomy for non-science majors. Covers achievements and controversies of 20th century astronomy through lectures, written assignments, and hands-on work. Not open to students with credit in AST 112 (available at ASU Main) or equivalent.

AST 315 The Solar System (4)

not regularly offered

Introduction to the solar system for non-science majors, emphasizing physical concepts, scientific method, astronomical research. Telescope observing, data-gathering and analysis, computer laboratory. Not open to students with credit in AST 111 (available at ASU Main) or 301. General studies: SQ.

AST 316 The Universe, Stars, Galaxies (4)

not regularly offered

Introduction to the universe, stars, galaxies for non-science majors, emphasizing physical concepts, scientific method, astronomical research. Telescope observing, data gathering and analysis, computer laboratory. Not open to students with credit in AST 112 (available at ASU Main) or 302. General studies: SQ.

AST 494 Special Topics (1-4)

not regularly offered

Topics may include modern topics in astronomy and astrophysics. Prerequisite: at least one astronomy course.

Biochemistry

BCH 361 Principles of Biochemistry (3)

fall and spring only

Structures, properties, and functions of proteins, enzymes, nucleic acids, carbohydrates, and lipids; the utilization and synthesis of these materials by living systems, and the relationship of these processes to energy production and utilization. Not open to students who have taken BCH 461 (available at ASU Main).

Prerequisite: an organic chemistry course.

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, and
/ or

Biology

BIO 100 The Living World (4)

spring only

Principles of biology. Cannot be used for major credit in the biological sciences. 3 hours lecture, 3 hours lab. Fee or deposit. General Studies: SQ.

BIO 181 General Biology (4)

fall only

Biological concepts emphasizing fundamental principles and the interplay of structure and function at the molecular, cellular, organismal, and population levels of organization. 3 hours lecture, 3 hours lab. Fee or deposit. Prerequisite: secondary school chemistry strongly recommended; biological sciences major or preprofessional student in health-related sciences. General Studies: SQ.

BIO 182 General Biology (4)

spring only

Continuation of BIO 181. Fee or deposit. Prerequisite: secondary school chemistry strongly recommended; BIO 181. General Studies: SG.

BIO 300 Natural History of Arizona (3)

fall and spring only

Plant and animal communities of Arizona. Cannot be used for major credit in the biological sciences. General studies: SG (if credit also earned in BIO 301).

BIO 301 Field Natural History (1)

fall and spring only

Organisms and their natural environment. Weekly field trips, field project. Cannot be used for major credit in the biological sciences. Fee or deposit. Pre or corequisite: BIO 300. General studies: SG (if credit also earned in BIO 300).

BIO 310 Special Problems and Techniques (1-3)

not regularly offered

Qualified undergraduates may investigate a specific biological problem under the direction of a faculty member. May be repeated for a total of 6 semester hours. Fee or deposit. Prerequisites: formal conference with the instructor; approval of the problem by the instructor and department chair.

BIO 319 Ecology and Conservation (3)

not regularly offered

Ecological and biological concepts of conservation used to understand ecological problems caused by humans. Cannot be used for major credit in the biological sciences. General studies: G.

BIO 320 Fundamentals of Ecology (3)

fall and spring only

Organization, functioning, and development of ecological systems; energy flow; biogeochemical cycling; environmental relations; population dynamics. Prerequisite: BIO 182 or instructor approval.

BIO 340 General Genetics (4)

fall and spring only

Science of heredity and variation. 3 hours lecture, 1 hour recitation. Prerequisite: BIO 182.

BIO 351 Developmental Anatomy (3)

spring only

General developmental biology (embryology) and comparative structure of organ systems, illustrated mainly by vertebrate examples. Prerequisite: BIO 182.

BIO 353 Cell Biology (3)

fall only

Survey of major topics in cell biology, including structural, biochemical, and molecular aspects of cell function. Prerequisite: BIO 182.

BIO 360 Animal Physiology (4)

fall and spring only

Physiological mechanisms of the higher vertebrates. 3 hours lecture, 3 hours lab. Fee or deposit.

Prerequisites: BIO 182; CHM 115; MAT 117 or equivalents.

BIO 370 Vertebrate Zoology (4)

not regularly offered

Characteristics, classification, evolution, and natural history of the major groups of vertebrate animals.

3 hours lecture, 3 hours lab. Fee or deposit.

Prerequisite: BIO 182.

BIO 385 Invertebrate Zoology (4)

not regularly offered

Characteristics, life cycles, adaptations, and evolution of invertebrate animals. 3 hours lecture, 3 hours lab.

Fee or deposit. Prerequisite: BIO 182 or instructor approval.

BIO 386 General Entomology (4)

not regularly offered

Form, activities, and classification of insects. 3 hours lecture, 3 hours lab. Fee or deposit. Prerequisite:

BIO 182.

BIO 410 Techniques in Wildlife Conservation Biology (3)

not regularly offered

Field and analytical techniques used in evaluating population structure, viability and environmental impacts. Lecture, lab. Prerequisites: ENG 101 (or 105); BIO 182; BIO 320 and 340 recommended.

General studies: L.

BIO 415 Biometry (4)

not regularly offered

Statistical methods applied to biological problems, design of experiments, estimation, significance, analysis of variance, regression, correlation, chi square, and bioassay; the use of computers. 3 hours lecture, 3 hours lab. Prerequisite: MAT 210 or equivalent. General studies: CS.

BIO 443 Molecular Genetics (3)

not regularly offered

Nature and function of the gene; emphasis on the molecular basis of inheritance and gene expression in prokaryotes and eukaryotes. Prerequisites: BIO 340; a course in organic chemistry.

BIO 445 Organic Evolution (3)

fall and spring only

Processes of adaptive change and speciation in sexual populations. Prerequisite: BIO 241 or 340.

BIO 465 Neurophysiology (3)

summer only, not regularly offered

Detailed treatment of cellular and organismal neurophysiology and nervous system functioning. Prerequisite: BIO 360 or instructor approval.

BIO 471 Ornithology (3)

summer only, not regularly offered

The biology of birds. 2 hours lecture, 3 hours lab, weekend field trips. Fee or deposit. Prerequisite: BIO 370 or instructor approval.

BIO 473 Ichthyology (3)

summer only, not regularly offered

Systematics and biology of recent and extinct fishes. 2 hours lecture, 3 hours lab or field trip, weekend field trips required. Fee or deposit. Prerequisites: ENG 101 (or 105); BIO 370 or instructor approval. General studies: L.

BIO 474 Herpetology (3)

summer only, not regularly offered

Systematics and biology of recent and extinct reptiles and amphibians. 2 hours lecture, 3 hours lab or field trip. Fee or deposit. Prerequisite: BIO 370 or instructor approval.

BIO 480 Methods of Teaching Biology (3)

fall only

Methods of instruction, experimentation, organization, and presentation of appropriate content in biology. Fee or deposit. Prerequisite: 20 hours in the biological sciences.

Chemistry

CHM 113 General Chemistry (4)

fall only

Principles of chemistry. Adapted to the needs of students in the physical, biological, and earth sciences. 3 hours lecture, 1 hour discussion, 2 hours lab. Credit is allowed for only CHM 113 or CHM 101, 107, 114, or 117 (available at ASU Main). Fee or deposit. Prerequisite: 1 year of high school chemistry recommended; MAT 106 or 3 semesters of high school algebra. General Studies: SQ.

CHM 115 General Chemistry with Qualitative Analysis (5)

spring only

Continuation of CHM 113. Equilibrium theory, chemistry of metals, nonmetals, and metalloids and the introduction to organic chemistry. Laboratory includes qualitative analysis. 3 hours lecture, 2 hours discussion, 4 hours lab. Credit is allowed for only CHM 115 or CHM 114, 116, or 118 (available at ASU Main). Fee or deposit. Prerequisite: CHM 113 or 2 years of high school chemistry. General Studies: SQ.

Computer Science

CSE 180 Computer Literacy (3)

fall and spring only

Introduction to personal computer operations and their place in society. Problem-solving approaches using databases, spreadsheets, and word processing. Lecture, demonstration. General studies: CS.

Dance

DAN 330 Dance (1)

not regularly offered

Advanced levels. Continuation of DAN 230. 2 hours weekly. May be repeated for credit.

DAN 394 Special Topics (1-4)

not regularly offered

Topics may include character dance, dance and culture, composition, improvisation and new works.

Dance History

DAH 300 Introduction to Dance (3)

not regularly offered

Orientation to the field of dance, focusing on history, styles, cultural and theatrical aspects of the art form. May not be taken for credit by student who has completed DAH 100. General studies: HU, H.

DAH 301 Philosophy and Criticism of Dance (3)

not regularly offered

Philosophical issues in dance and dance criticism, with emphasis on written analysis and interpretation. Prerequisite: ENG 101 (or 105). General studies: L/HU.

English

ENG 101 First-Year Composition (3)

fall and spring only

Discovering, organizing, and developing ideas in relation to the writer's purpose, subject, and audience. Emphasis on modes of written discourse and effective use of rhetorical principles.

ENG 102 First-Year Composition (3)

fall and spring only

Critical reading and writing; emphasis on strategies of academic discourse. Research paper required. Prerequisite with a grade of "C" or higher: ENG 101.

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/ or

ENG 105 Advanced First-Year Composition (3)*not regularly offered*

A concentrated composition course for students with superior writing skills; intensive reading; research papers; logical and rhetorical effectiveness. Not open to students with credit in First-Year Composition.

ENG 213 Introduction to the Study of Language (3)*not regularly offered*

Language as code; phonetics, phonology, morphology, and syntax; the lexicon; language acquisition; sociolinguistics. Prerequisite with a grade of "C" or higher: ENG 102 (or 105).

ENG 221 Survey of English Literature (3)*not regularly offered*

Medieval, Renaissance, and 18th-century literature. Emphasis on major writers and their works in their literary and historical contexts. Prerequisite: ENG 102 (or 105). General studies: HU, H.

ENG 222 Survey of English Literature (3)*not regularly offered*

Romantic, Victorian, and 20th-century literature. Emphasis on major writers and their works in their literary and historical contexts. Prerequisite: ENG 102 (or 105). General studies: HU, H.

ENG 241 American Literature (3)*not regularly offered*

From colonial times to the Civil War, including the growth of nationalism and romanticism. Prerequisite with a grade of "C" or higher: ENG 102 (or 105). General studies: HU.

ENG 242 American Literature (3)*not regularly offered*

From the Civil War to the present. Development of realism, naturalism, and modernism, and contemporary trends in prose and poetry. Prerequisite: ENG 102 (or 105). General studies: HU.

ENG 311 Persuasive Writing (3)*fall and spring only*

An advanced writing course that focuses on persuasive writing for diverse audiences. Cross-listed as HIS 301. Prerequisite: ENG 102 (or 105). General studies: L.

ENG 315 Writing for the Professions (3)*fall and spring only*

Advanced practice in writing and editing expository prose. Primarily for preprofessional majors. Prerequisite: ENG 102 (or 105). General studies: L.

ENG 316 Writing and Arguing Politics (3)*not regularly offered*

A course in logical argumentation and writing, enabling students to analyze and construct arguments. Prerequisite: ENG 102 (or 105). General studies: L.

ENG 323 Rhetoric and Grammar for Writers and Teachers (3)*fall and spring only*

A practical course taught in the computer lab. Emphasizes rhetorical strategies and grammar for writers. Prerequisite: ENG 102 (or 105). General studies: L.

ENG 331 British Literature to 1800 (3)*fall only*

A study of British literature to 1800 focused on specific writers, themes, and works in literary and historical contexts. Not open to students who have credit for ENG 221. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 333 British Literature since 1800 (3)*spring only*

A study of British literature since 1800 focused on specific writers, themes, and works in literary and historical contexts. Not open to students who have credit for ENG 222. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 337 Major American Short Novels (3)*not regularly offered*

Short novels from the 19th century to the present studied in their historical and cultural contexts. Cross-listed as AMS 322. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 341 American Literature to 1865 (3)*fall only*

From Colonial times to the Civil War, including the growth of nationalism and romanticism. Not open to students who have credit for ENG 241. General studies: HU.

ENG 342 American Literature since 1865 (3)*spring only*

From the Civil War to the present. Development of realism, naturalism and modernism, and contemporary trends in prose and poetry. Not open to students who have credit for ENG 242. General studies: HU.

ENG 352 Short Story (3)*fall and spring only*

Development of the short story as a literary form; analysis of its technique from the work of representative authors. Cross-listed as AMS 322. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 384 Science Fiction and Fantasy (3)*not regularly offered*

Development of science fiction and fantasy literature. Cross-listed as AMS 322. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 386 American Gothic (3)*not regularly offered*

The development of modern American Gothic as a literary form from Poe to Oates. Emphasis on the short story. Cross-listed as AMS 322. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 394 Special Topics (3)*not regularly offered*

Topics may include writing and American culture.

ENG 400 History of Literary Criticism (3)*once a year*

Major critics and critical traditions in the western world. Prerequisite: 6 hours of literature or instructor approval. General studies: HU.

ENG 412 Writing for Publication (3)*fall and spring only*

Lectures and conferences concerning techniques of writing for publication.

ENG 420 Multicultural Autobiographies (3)*fall, spring, summer*

Examination of the human experience via autobiographies and personal narratives. Multicultural, literary, and psychological perspectives on individual lives. Cross-listed as IAS 420. Prerequisite: ENG 102 (or 105). General studies: L/HU, C.

ENG 421 Western American Literature (3)*not regularly offered*

Critical examination of ideas and traditions of the literature of the western United States. Cross-listed as AMS 422. Prerequisite: ENG 102 (or 105). General studies L/HU.

ENG 422 Southern Writers (3)*once a year*

An analysis of Southern culture through the eyes of the region's novelists, short story writers, poets, filmmakers, photographers, and song writers. Cross-listed as AMS 422.

ENG 428 European Renaissance Literature and Society (3)*not regularly offered*

Prose, poetry, and drama of Europe and England from 1492-1660 with an emphasis on cultural history. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 430 Renaissance Literature (3)*not regularly offered*

Drama, poetry, and prose from the period 1485-1660. Less than one-fourth of the readings by Shakespeare and/or Milton. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 431 Whitman and Dickinson (3)*not regularly offered*

Evaluation of the 19th century "American Literary Renaissance" through the specialized examination of its poetry and authors in their historical context. General studies: HU.

ENG 432 The American Renaissance (3)*not regularly offered*

Novels, poetry, short fiction, and criticism of the major literary figures of the early to mid-nineteenth century. Cross-listed as AMS 422. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 433 American Realism, 1860-1900 (3)*not regularly offered*

Writers and influences that shaped the development of literary realism. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 434 Literature in the TV Age: American Culture since 1945 (3)*not regularly offered*

This course will assess the status of literature and culture since the rise of television. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 440 American Poetry: Survey (3)*not regularly offered*

The course will scan American poetry from its beginnings to the contemporary period. General studies: HU.

ENG 441 Romantic Poetry (3)*not regularly offered*

Poetry of Wordsworth, Coleridge, Shelley, Keats, and Byron. General studies: HU.

ENG 445 The American Novel, 1900 - 1960 (3)*not regularly offered*

Developments in theory and practice of major novelists. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 446 American Novel since 1960 (3)*fall only*

Major novelists of the period. Developments in theory and practice. Cross-listed as AMS 422. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 451 History of Film (3)*not regularly offered*

Emphasis on American film, with some study of European film. 3 hours lecture, 4 hours of screening. General studies: HU.

ENG 452 Sound Film Genres (3)*not regularly offered*

Examination of the western, the horror film, the comedy, and other genres. 3 hours lecture, screenings. General studies: HU.

ENG 453 Erotic Writing in the Renaissance (3)*not regularly offered*

A course addressing the relation between erotic representation, gender, and sexuality in early modern Europe and England. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 454 Women and Literature (3)*once a year*

Selected topics in literature by or about women. May be repeated for credit when topics vary. General studies: HU.

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ENG 455 Contemporary Women Writers (3)*not regularly offered*

Critical examination of literature by contemporary women writers. May be repeated for credit when topics vary. General studies: HU.

ENG 463 African-American Literature (3)*not regularly offered*

Thematic and cultural study of African-American literature. Prerequisite: ENG 102 (or 105). General studies: L/HU, C.

ENG 464 American Indian Literature (3)*once a year*

Selected oral traditions of American Indians and their influences on contemporary Native American literary works. General studies: HU, C.

ENG 466 Chicano Literature (3)*not regularly offered*

Development of Chicano literature; study of genres and themes; attention to literary antecedents. Prerequisite: ENG 102 (or 105). General studies: L/HU, C.

ENG 467 Ethnic Women Writers (3)*not regularly offered*

Concentrates on selected women writers of the U.S. who are Native American, black, Hispanic, and Asian-American. Cross-listed as AMS 422, WST 467. Prerequisite: ENG 102 (or 105). General studies: L/HU, C.

ENG 473 Shakespeare (3)*fall and spring only*

A selection of comedies, histories, and tragedies. May be repeated for credit when topics vary. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 475 Milton (3)*not regularly offered*

Selected prose and poetry, emphasizing *Paradise Lost*, *Paradise Regained*, and *Samson Agonistes*. Prerequisite: ENG 221 or instructor approval. General studies: HU.

ENG 477 World Literature (3)*spring only*

Introduces students to world literature, mostly outside the United States and England. Cross-listed as IAS 477. Prerequisite: ENG 102 (or 105). General studies: L/HU, G.

ENG 481 Comedy (3)*not regularly offered*

Addresses comedy, humor, laughter and related subjects through readings and close analysis of material in a variety of media and genres.

ENG 494 Special Topics (3)*not regularly offered*

Topics may include writing practicum.

Ethnic Studies

ETH 100 Introduction to Ethnic Studies (3)*fall only*

This course undertakes an introductory comparative analysis of ethnic groups to understand cultural diversity within the United States. General studies: SB, C.

ETH 300 Principles of Ethnic Studies (3)*fall only*

The objective of this course is to familiarize students with a range of analytical and theoretical frameworks in the field of ethnic studies. General studies: C.

ETH 484 Ethnic Studies Internship (3)*fall, spring, summer*

Seminar with structured practical experience in the field and/or in community organizations.

Family Studies

FAS 301 Introduction to Parenting (3)*summer only*

Integrated approach to understanding parenting and parent-child interactions. Prerequisites: ENG 101 (or 105); PGS 101, SOC 101 or equivalent. General studies: L/SB.

FAS 330 Personal Growth in Human Relationships (3)*fall, spring, summer*

Personal development and behavior as related to competency in interpersonal relationships with the family. Processes of family interaction. Prerequisites: PGS 101, SOC 101 or equivalent. General studies: SB.

FAS 331 Marriage and Family Relationships (3)*fall and spring only*

Issues, challenges, and opportunities relating to present day marriage and family living. Factors influencing interrelations within the family. Prerequisite: course in psychology or sociology. General studies: SB, C.

FAS 332 Human Sexuality (3)*spring only*

Relationship of sexuality to family life and to major societal issues. Emphasis on developing healthy, positive, responsive ways of integrating sexual and other aspects of human living. Prerequisite: PGS 101.

FAS 431 Adolescence and Family Relationships (3)*fall only*

Coverage of functional and dysfunctional family dynamics involving adolescents, siblings, parents, and extended family members. Prerequisite: PGS 101.

Cultural Geography

GCU 352 Political Geography (3)*spring only*

Relationship between the socio-physical environment and the state. General studies: SB, G.

GCU 357 Social Geography (3)*not regularly offered*

Environmental perception of individuals and groups. The spatial aspect of social and physical environments is stressed. General studies: SB.

GCU 361 Urban Geography (3)*not regularly offered*

External spatial relations of cities, internal city structure, and spatial aspects of urban problems in various parts of the world, particularly in the United States. General studies: SB.

GCU 373 Introduction to Geographic Information Science (4)

fall only

Introduction to theoretical and computer based aspects of Geographic Information Systems, involving data analysis and map generation. General studies: SG.

Geology

GLG 110 Geological Disasters and the Environment (3)

fall only

Geological studies as they apply to interactions between humans and earth. Includes geological processes and hazards, resources, and global change. General studies: G, SG (if credit also earned in GLG 111).

GLG 111 Geological Disasters and the Environment Laboratory (1)

fall only

Basic geological processes and concepts. Emphasis on geology-related environmental problems concerning Arizona. Case histories and field studies. Fee or deposit. General studies: SG (if credit also earned in GLG 110).

History

HIS 101 Western Civilization (3)

fall only

Traces origin and development of Western societies and institutions from the Renaissance and Reformation through Age of Enlightenment. General studies: SB, H.

HIS 102 Western Civilization (3)

spring only

Traces origin and development of Western societies and institutions from the French Revolution to the present. General studies: SB, G, H.

HIS 103 The United States (3)

fall only

Growth of the Republic from colonial times through the Civil War period. General studies: SB, H.

HIS 104 The United States (3)

spring only

Growth of the Republic from the Civil War period to the present day. General studies: SB, H.

HIS 300 Historical Methods (3)

fall only

An introduction to the methodological and theoretical tools of history as a scholarly discipline for history majors. Prerequisite: ENG 102 (or 105). General studies: L, H.

HIS 301 Writing in History (3)

once a year

Focuses on methods of writing, reasoning, and arguing in American Studies. Emphasizes the drafting of summaries and short arguments. Cross-listed as AMS 340, ENG 311. Prerequisite: ENG 101 (or 105). General studies: L.

HIS 303 American Cultural History (3)

fall only

Culture in a broad connotation, including ideas, ideals, the arts, and social and economic standards from the nation's colonial background and early national period. Cross-listed as AMS 320. General studies: SB, H.

HIS 304 American Cultural History (3)

spring only

Culture in a broad connotation, including ideas, ideals, the arts, and social and economic standards from the age of industrialism and modern America. Cross-listed as AMS 321. General studies: SB, H.

HIS 305 History of American Systems to 1865 (3)

fall only

Survey of political, legal, and economic institutions, placed in the context of a dynamic industrial society. Cross-listed as AMS 310. Prerequisite: ENG 101 (or 105). General studies: L, C, H.

HIS 306 History of American Systems since 1865 (3)

spring only

Survey of political, legal, and economic institutions, placed in the context of a dynamic industrial society. Cross-listed as AMS 311. Prerequisite: ENG 101 (or 105). General studies: L, C, H.

HIS 320 19th Century West (3)

not regularly offered

Social, political, and economic development of trans-Mississippi West beginning with Louisiana Purchase and ending in 1900. General studies: SB, H.

HIS 331 American Indians (3)

fall only

History of the American Indian with emphasis on the government's Indian policy and the impact of the white man on tribal culture.

HIS 340 American Military History (3)

not regularly offered

A study of the role of the military in American life during war and peace from colonial times to the present day. General studies: SB, H.

HIS 355 Europe and the World I (3)

fall only

A survey of early-modern European history (1400-1800), with an emphasis on European relations with the non-European world. Prerequisite: ENG 102 (or 105). General studies: G, H.

Key to General Studies

Credit Abbreviations

L Literacy and critical inquiry core courses

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, and
/ or

HIS 356 Europe and the World II (3)*spring only*

A survey of modern European history (1789-present), with an emphasis on European relations with the non-European world. Prerequisite: ENG 102 (or 105). General studies: G, H.

HIS 363 Reformation (3)*fall only*

The Protestant and Catholic Reformations in the 16th century. Prerequisite: ENG 101 (or 105). General studies: L/SB, H.

HIS 377 Women in Europe, 1700-Present (3)*not regularly offered*

A historical survey of European women's lives, emphasizing the impact of gender on social, political, economic, and cultural experience. Prerequisite: ENG 102 (or 105). General studies: H.

HIS 378 20th Century Europe at War, 1900-1945 (3)*fall only*

A survey of the history of the World Wars in Europe, emphasizing the relationship between military developments, culture, and society. General studies: H.

HIS 394 Special Topics in History (3)*fall and spring only*

A full description of topics for any semester is available in the American Studies office. May be repeated for credit.

HIS 406 Civil War and Reconstruction (3)*spring only*

Causes and development of the war; political, constitutional, and social issues of Reconstruction and their effects on postwar America. Prerequisite: ENG 101 (or 105). General studies: L/SB, H.

HIS 411 Contemporary America (3)*fall only*

The United States from 1945 to the present. Prerequisite: ENG 101 (or 105). General studies: L/SB, H.

HIS 419 Topics in American Historical Periods (3)*spring only*

Courses under this title focus on specific periods in American history. May be repeated for credit when topics vary.

HIS 423 Mexico (3)*not regularly offered*

Political, economic, social, and cultural developments from 1810 to the present. General studies: SB, H.

HIS 424 The Hispanic Southwest (3)*fall only*

Development of the Southwest in the Spanish and Mexican periods to 1848. General studies: SB, H.

HIS 429 Topics in American Regional History (3)*fall only*

Courses under this title focus on the history of specific geographic regions within North America. May be repeated for credit when topics vary.

HIS 430 20th Century Chicano/a History (3)*not regularly offered*

Historical development of the Chicano community in the 20th century. General studies: SB, H.

HIS 431 Social History of American Women (3)*fall only*

Examination of women's social position in America. In-depth analysis of specific women's issues in terms of change over time. Prerequisite: ENG 101 (or 105). General studies: L/SB, H.

HIS 439 Topics in American Race, Class, Gender, and Ethnicity (3)*fall and spring only*

Courses under this title emphasize the use of race, class, gender, and/or ethnicity as categories of historical analysis.

HIS 443 Constitutional History of the United States (3)*spring only*

Origin and development of the American constitutional system, from Reconstruction to the present. Prerequisite: HIS 104 or instructor approval. General studies: SB, H.

HIS 444 American Urban History (3)*spring only*

The history of the city in American life from the 19th century to the present. General studies: SB, H.

HIS 449 Topics in American Themes and Issues (3)*fall only*

Courses under this title focus on significant themes and issues in American history. May be repeated for credit when topics vary.

HIS 450 Topics in Comparative History (3)*not regularly offered*

Comparative history with reference to one or more themes. May be repeated for credit when topics vary.

HIS 451 Topics in Global History (3)*spring only*

Global history with reference to one or more themes. May be repeated for credit when topics vary.

HIS 467 Topics in European Historical Periods (3)*not regularly offered*

Courses under this title focus on specific periods in European history. May be repeated for credit when topics vary.

HIS 469 Modern Germany (3)*spring only*

Germany since 1840. General studies: SB, G, H.

HIS 475 Topics in European Regional/National History (3)*not regularly offered*

Courses under this title focus on the history of specific geographic regions or nations in Europe. May be repeated for credit when topics vary.

HIS 482 Topics in European Gender, Ethnicity, and Class (3)
not regularly offered
 Courses under this title emphasize the use of gender, ethnicity and/or class as categories of historical analysis. May be repeated for credit when topics vary.

HIS 487 Topics in European Themes and Issues (3)
fall only
 Courses under this title focus on significant themes and issues in European history. May be repeated for credit when topics vary.

HIS 489 Thesis (3)
not regularly offered
 Supervised research culminating in an original thesis written on a historical topic.

HIS 498 History Pro-Seminar (3)
fall and spring only
 Required course for majors on topic selected by instructor; introduction to historical research and writing; writing intensive course related to the development of research skills and writing tools used by historians. Prerequisite: ENG 101 (or 105). General studies: L.

History and Philosophy of Science

HPS 323 History of Science (3)
spring only
 Development and application of scientific thinking from the 18th century to the present. Cross-listed as IAS 323. General studies: HU, H.

HPS 330 History of Biology: Conflicts and Controversies (3)
spring only
 Focuses on the 19th and 20th centuries, considering biology as a discipline, evolution, and problems of heredity, development, and cell theory. General studies: H.

HPS 411 History and Philosophy of Mathematics (3)
fall only
 Examines nature of mathematics from origins to present, revealed by its history and philosophy. Strong background in mathematics not required. Cross-listed as IAS 411, MAT 411. General studies: HU, H.

HPS 412 History and Philosophy of the Social Sciences (3)
spring only
 Development of the social sciences (economics, psychology, sociology, anthropology, history, political science) from the 17th century to the present. Cross-listed as IAS 412. General studies: HU, H.

HPS 422 Women and Science (3)
spring only
 Examines the role of women in science, the construction of gender in science, and the impact of science on women. Cross-listed as IAS 422, WST 422. Prerequisite: ENG 101 (or 105). General studies: L/HU, H.

Integrative Studies

IAS 300 Adult Career Development (3)
fall, spring, summer
 Analysis of sociological and economic factors of 21st century work environments, integrated with a psychological understanding of adult development. Prerequisite: ENG 101 (or 105). General studies: L/SB.

IAS 323 History of Science (3)
spring only
 Development and application of scientific thinking from 18th century to the present. Cross-listed as HPS 323. General studies: HU, H.

IAS 330 History and Philosophy of Biology (3)
spring only
 Examines the development of biological thought in its social context and the philosophical foundations of scientific inquiry. Cross-listed as HPS 330. General studies: H.

IAS 406 Moral Dilemmas (3)
fall and spring only
 Philosophical analysis of moral dilemmas arising in professional and public settings. Ethical decision making in business, educational, human service, and scientific communities. Cross-listed as PHI 406. Prerequisite: ENG 101 (or 105). General studies: L/HU.

IAS 407 Environmental Philosophy and Policy (3)
fall only
 Ethical concepts and theories applied to environmental issues: biotic community, biodiversity, ecofeminism, ecology, economics, population, property rights, and wilderness. Not open to students with credit in PHI 310 (available at ASU Main). Cross-listed as PHI 407. Prerequisite: ENG 101 (or 105). General studies: L/HU.

IAS 410 Evolution of Ideas (3)
fall only
 Investigates ideas (paradigms) and revolutions (paradigm shifts). Examines several topics from perspectives of science, arts, humanities, social sciences. Prerequisite: ENG 101 (or 105). General studies: L/HU, H.

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IAS 411 History and Philosophy of Mathematics (3)
fall only

Examines nature of mathematics from origins to present, revealed by its history and philosophy. Strong background in mathematics not required. Cross-listed as HPS 411, MAT 411. General studies: HU, H.

IAS 412 History and Philosophy of the Social Sciences (3)*spring only*

Development of the social sciences (economics, psychology, sociology, anthropology, history, political science) from the 17th century to the present. Cross-listed as HPS 412. General studies: HU, H.

IAS 420 Multicultural Autobiographies (3)*fall, spring, summer*

Examination of the human experience via autobiographies and personal narratives. Multicultural, literary, and psychological perspectives on individual lives. Cross-listed as ENG 420. Prerequisite: ENG 101 (or 105). General studies: L/HU, C.

IAS 422 Women and Science (3)*spring 2002 only*

Examines the role of women in science, the construction of gender in science, and the impact of science on women. Cross-listed as HPS 422, WST 422. Prerequisite: ENG 101 (or 105). General studies: L/HU, H.

IAS 477 World Literature (3)*spring only*

Introduces students to world literature, mostly outside the United States and England. Cross-listed as ENG 477. Prerequisite: ENG 101 (or 105). General studies: L/HU, G.

IAS 484 Internship (1-12)*fall, spring, summer*

Structured practical experience supervised in the field by practitioners with parallel, on-campus seminar held with program faculty.

IAS 499 Individual Research or Creative Project (1-3)*fall, spring, summer*

Application of interdisciplinary methods of inquiry to a problem identified by student and supervised by faculty.

Interdisciplinary Arts and Performance**IAP 101 Art, Artist, and Culture (3)***spring only*

Provides students with an approach to art, creativity, and culture in global, historical, and contemporary contexts. General studies: HU.

IAP 300 Introduction to Interdisciplinary Arts (3)*not regularly offered*

Interdisciplinarity considered in practical terms in all art forms. Antecedents and cross-cultural issues will also be considered. General studies: HU.

IAP 301 Energetic Systems of Art: Collaboration in the Arts (3)*not regularly offered*

Identification and exploration of the energetic systems at work in the creation, performance, and perception of art.

IAP 302 Cross-Cultural Perspectives on the Arts (3)*not regularly offered*

Social and cultural perspectives of art and performance through a survey of historical and contemporary attitudes. Prerequisite: ENG 101 (or 105). General studies: L/HU.

IAP 303 Artists and the Contemporary American Experience (3)*not regularly offered*

Exploration into the life of the contemporary American artist with respect to individuality, pluralism, gender, race, and ethnicity, regionalism, etc. General studies: HU.

IAP 304 The Avant-Garde to WW II (3)*not regularly offered*

Survey of movements and trends from late 19th century to World War II, including symbolism, surrealism, the Bauhaus, atonality, etc. General studies: HU.

IAP 305 The Avant-Garde and Experimental Arts, WW II to Present (3)*spring only*

Survey of movements and trends from World War II to the present, including abstract expressionism, musique concrete, minimalism, etc. General studies: L/HU.

IAP 306 Extended Traditions in Drawing (3)*not regularly offered*

Exploring alternative methods of rendering the drawn image. Emphasis on incorporating other art forms to inform students' individual work.

IAP 321 Music Composition I (3)*fall in odd years only*

Study and implementation of specific compositional theories and procedures. May be repeated for credit as topics vary.

IAP 322 Multitrack Digital Recording (3)*fall in even years only*

Introduces students to theory and practice of Musical Instrument Digital Interface (M.I.D.I.) technology.

IAP 323 Music and the Visual Arts (3)*spring in odd years only*

Histories and theories of music and visual arts with particular attention paid to convergences within 20th century avant-garde traditions. General studies: HU.

IAP 324 The Voice and Performance (3)*not regularly offered*

This course will involve all aspects of the human voice, including research, creation, and performance.

IAP 325 Sound Performance: Exploring Alternative Performance Groups (3)*spring only*

Utilizes innovative sound ensembles to explore all aspects of sound and its place in various art forms.

IAP 331 Performance, Acting, and the Individual (3)
fall only

Designed to explore the concepts of the “self,” the “subject,” and the “author” as each pertain to the solo artist.

IAP 332 Technical Production for Interdisciplinary Arts (3)
not regularly offered

Development of basic technical knowledge and application of fundamental stagecraft techniques used in the creation and presentation of performance works.

IAP 333 Directing for Performance (3)
fall in even years only

This course is designed to explore various strategies for performance. Emphasis will be on non-traditional staging and performance.

IAP 334 Writing/Performance Seminar (3)
fall only

Developing original text into rehearsal-ready script. Text, design, acting style, music, and movement are developed in a workshop setting.

IAP 335 Vocalization and Movement (3)
spring only

Study, application, and coordination of vocal projection techniques with bodily movement competencies in presenting original and existing contemporary performance works.

IAP 341 Movement Technique (3)
not regularly offered

Designed to enhance bodily awareness through the study of movement technique ranging from Yoga to Classical, Modern Dance.

IAP 347 Movement in Education (3)
fall only

Theory and practice of teaching dance and creative movement in schools, K-12. Open to all students.

IAP 351 Concept, Image, and Text (3)
not regularly offered

This course will engage the student in the generation of images and metaphors using various media and visual stimuli.

IAP 352 Seeing and Drawing (3)
fall only

Developing drawing and seeing skills that are important not only to visual arts but also to music, dance, and theatre. Studio: 6 hours per week. Fee or deposit.

IAP 353 Contemporary Figure Drawing I (3)
fall in even years only

A look at life through drawing of the human figure. Concerns: composition, anatomy. Useful in other art forms. Studio: 6 hours per week. Fee or deposit. Prerequisite: ART 314 or IAP 352 or ART 311 (available at ASU Main) or instructor approval.

IAP 354 Visual Representation (3)
fall only

Exploring materials, processes, and aesthetic concepts of art making through various media with readings on cultural perspectives and contemporary theory. Lecture and studio.

IAP 355 Illusion and Vision (3)
spring in odd years only

Inquiry into 2D surfaces for visual representation and personal expression including readings on color theory, visual perception, and historical/cultural patterns. Lecture and studio.

IAP 356 Spatial Impressions (3)
fall in even years only

Investigating 3D forms, the processes and concepts of physicality, and the environment with readings on spatial perception and cultural objects. Lecture and studio.

IAP 361 Digital Editing and Media Literacy (3)
fall only

An investigation of the approaches used in digital editing with a focus on interactivity, graphics, audio, and desktop video. General studies: CS.

IAP 363 Sound, Image, and Media (3)
fall 2001 only

Interdisciplinary arts projects for experimental approaches to relating sound and visual image, accompanied by survey of historical and contemporary material.

IAP 364 Documentaries (3)
spring 2001 only

Media arts projects exploring new and experimental forms of visualization based upon an interdisciplinary survey of historical and contemporary examples. Recommended: IAP 361.

IAP 365 Authoring CD ROMS (3)
fall only

Students learn to combine multi-media, graphics, and programming skills specific to the program “Director” to create their own CD-ROMS. Pre or corequisite: IAP 361.

IAP 366 Acoustic Ecology (3)
not regularly offered

An investigation into the relationship between sound art, music, and ecology, including labs on making and deploying microphones in the field. Prerequisites: IAP 361; admission is also by consent of instructor for students in Life Sciences and Communication Studies.

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IAP 371 Verbal Art (3)*fall in even years only*

Course examines varieties of verbal art in: everyday life, literature, oral and literate cultures. Considers diverse cultural forms and values. Prerequisite: ENG 101 (or 105). General studies: L/HU, C. L/HU.

IAP 373 The Critical Artist (3)*not regularly offered*

This course will focus on artists' critical thought, theorizing, and representation of art across disciplines and genres. General studies: HU.

IAP 421 Composition: Process, Technique, and Style II (3)*fall 2001 only*

Advanced study of specific compositional theories and procedures; in-depth analysis of individual work. Repeatable for credit as topics vary. Prerequisite: IAP 321.

IAP 422 Contemporary Orchestration Practices (3)*spring 2002 only*

Traditional and experimental scoring techniques for small and large ensembles using MIDI technology, digital samplers, and traditional instruments.

IAP 431 Perspectives on Performance and Acting (3)*spring 2001 only*

This course focuses on the interaction of the performer with media, alternative stagings, and collaboration with other performers.

IAP 433 Directing Workshop (3)*spring only*

Application of experimental directorial techniques to presentations and deconstruction of classical works including European and cross-cultural traditions. Prerequisite: IAP 333.

IAP 434 Production Laboratory (3)*spring 2002 only*

Develop original scripts into showcase productions. Students function as theatrical ensemble, participate in all phases of performance and production values.

IAP 441 Dance-Drama (3)*fall 2001 only*

This course explores the relationship between and the interdisciplinarity of dance and drama, both historically and cross-culturally.

IAP 442 Movement and Music (3)*spring only*

This course surveys ways artists have brought together movement and music in artistic creations in various disciplinary and interdisciplinary contexts.

IAP 452 Elements of Painting (3)*spring in odd years only*

Will develop painting skills and also develop personal artistic vision through projects that will be stimulated by other art forms. Studio: 6 hours per week. Prerequisite: ART 323 or IAP 352 or ART 311 (available at ASU Main) or instructor approval.

IAP 453 Contemporary Figurative Painting (3)*not regularly offered*

Painting the human form from observation; will perfect painting skills; stimulate an interdisciplinary awareness through exposure of other art forms. Studio: 6 hours per week. Fee or deposit. Prerequisite: IAP 353 or instructor approval.

IAP 454 New Directions in Painting (3)*not regularly offered*

Will develop painting skills and personal artistic vision, through projects that will be stimulated by other art forms. Studio: 6 hours per week. Fee or deposit. Prerequisite: IAP 452 or instructor approval.

IAP 455 Contemporary Figure Drawing II (3)*not regularly offered*

Extension of Contemporary Figure Drawing I. More development of expressive uses of the human figure in contemporary visual and media arts settings. Studio: 6 hours per week. Fee or deposit. Prerequisite: IAP 353.

IAP 457 Urban Narrative (3)*spring 2002 only*

Conceptually based studio focusing on artists' voices in contemporary urban environment with readings on spatial perception and cultural objects. Lecture and studio. Prerequisite: instructor approval.

IAP 464 Media and Diversity (3)*not regularly offered*

Interdisciplinary art projects exploring identity, perception and technologies from a basis of class, race, ethnicity, gender, sexuality, and ecology.

IAP 465 Media Technologies and the Arts (3)*spring 2002 only*

Practical explorations of media arts inter related with cultures, society, and technology, addressed through readings, discussion research and student arts projects.

IAP 466 Authoring CD ROMS, Advanced (3)*not regularly offered*

Students learn more advanced programming skills specific to the program "Director" to create their own multi-media pieces and CD ROMS. Prerequisite: IAP 365 or instructor approval.

IAP 471 Language, Culture, and Performance (3)*not regularly offered*

This course offers an in-depth examination of language in myth, poetry, social and aesthetic performance genres. Prerequisites: ENG 101 (or 105); IAP 371 or instructor approval. General studies: L/HU.

IAP 472 20th Century Theories of Arts and Performance (3)*fall in odd years only*

This course will orient students toward key texts, thinkers, concepts, and approaches to the arts and performance. Prerequisites: ENG 101 (or 105); IAP 372 or 375. General studies: L/HU.

IAP 473 Aesthetic Research (3)*spring 2002 only*

This course investigates how artists, in all disciplines and from different historical periods, conduct or participate in research. Prerequisites: ENG 101 (or 105); IAP 373. General studies: L/HU.

IAP 480 Senior Project (3-6)

fall and spring only

Capstone Course. Students develop an exit project for the IAP degree under the guidance of an advisor.

Prerequisites: IAP major, senior standing, or advisor approval.

Life Sciences

LSC 264 The Biology of Humans (3)

spring only

Human anatomy, physiology, and behavior are analyzed in an ecological and evolutionary context with the methods of comparative biology.

LSC 300 Modes of Biological Thought (3)

fall and spring only

Lecture course involving students in the process of biological discovery to examine how we identify truth in biological science. Prerequisites: ENG 101 (or 105); BIO 182. General studies: L.

LSC 301 Life Sciences: History and Method (4)

summer only

Lecture/laboratory integrating philosophy, history, and methods of the life sciences and includes issue of underrepresentation of minorities in science. General studies: SG, C.

LSC 321 General Physiology (3)

not regularly offered

A comparison of physiological mechanisms by which diverse lineages carry out biological functions. Same lectures as in BIO 360. Prerequisites: BIO 182, CHM 115, MAT 117.

LSC 330 Pollution vs. Protection: Counting the Cost (3)

fall and spring only

A comparison of the economic costs and global consequences of permitting versus preventing pollution. General studies: G.

LSC 340 Behavioral Biology (3)

not regularly offered

An interdisciplinary consideration of proximate and ultimate variables affecting animal and human behavior. Prerequisite: BIO 182 or instructor approval. Not open to students with credit in BIO 280.

LSC 342 Hormones and Behavior (3)

spring only

An examination of the short-term and long-term effects of hormones on the behavior of animals, including humans. Prerequisite: BIO 182.

LSC 346 Zoo Biology (3)

not regularly offered

The roles of zoos in society. Overview of the operation of zoos, including hands-on experience at local zoos.

Emphasis on conservation management. Field trips required. Fee or deposit.

LSC 350 Premedical Professional Seminar (3)

fall and spring only

An opportunity for students who anticipate a career in any area of medicine to explore the realities of the field. Prerequisite: instructor approval.

LSC 360 The Biology of Human Experience (3)

spring only

An introduction to the evolutionary origins and characteristics of humans as they are reflected in morphology, physiology, ecology, and behavior. Prerequisite: BIO 182.

LSC 361 Human Sexual Biology (3)

not regularly offered

Human sexuality from a biological and integrative perspective, including comparisons to other vertebrates and examination of social, behavioral, and physiological factors. Cannot be used for major credit in the biological sciences. General studies: SB.

LSC 362 The Human Environment (3)

fall only

Evolution of humans' physiological, ecological, and behavioral interaction with their environment. Saturday field trip required.

LSC 363 Genes, Race, and Society (3)

not regularly offered

Examines biological theories of "race" and their impact on human society.

LSC 365 The Human Organism (4)

fall and spring only

Human anatomy, physiology, and behavior are analyzed in an ecological and evolutionary context with the methods of comparative biology. General studies: SG.

LSC 405 Simulation Modeling (4)

not regularly offered

Lecture/lab course focusing on principles and methods of systems modeling and computer simulation in ecology and environmental science. Prerequisite: BIO 320 and MAT 210 (or higher), or instructor approval. General studies: CS.

LSC 425 Medical Epidemiology (3)

not regularly offered

The origin, spread, and control of contagious disease including zoonoses. Prerequisite: upper division biology course and instructor approval.

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LSC 429 Capstone Course in Cell Biology and Physiology (3)*fall and spring only*

Student-generated group projects focusing on the interface of biology and health issues. Prerequisite: major status or instructor approval.

LSC 430 Environmental and Human Toxicology (4)*fall in odd years only*

Lecture/fieldwork course investigating toxic substances in the environment and their effect on the health of organisms, including humans. Prerequisite: BIO 182, CHM 113, 115; or equivalents.

LSC 432 Basic Pharmacology (4)*fall in even years only*

Aspects of pharmacology using an integrated approach to familiarize students with natural and synthetic therapeutic agents used in medicine. Prerequisite: BIO 353 or BIO 360 or instructor approval.

LSC 434 Marine Ecology (3)*not regularly offered*

An examination of ecological processes in oceans, seas, and estuaries that emphasizes species- and community-level phenomena. Prerequisite: an upper division biology course.

LSC 438 Landscape Ecology (3)*spring only*

Perspectives from comprehensive views of ecology studying how landscape patterns affect distribution of individuals, energy, and materials. Prerequisite: BIO 320 or instructor approval.

LSC 439 Capstone Course in Ecology and Organismal Biology (3)*fall and spring only*

Student-generated projects focusing on biodiversity. Prerequisite: major status or instructor approval.

LSC 450 Premedical Externship (3)*fall and spring only*

This course provides hands-on experience in a hospital setting for premedical students. Pre or corequisite: LSC 350 and instructor approval.

LSC 469 Capstone Course in Human Biology and Environment (3)*fall and spring only*

Student-generated group projects focusing on humans and their environment. Prerequisite: major status or instructor approval.

LSC 480 Practicum (1-4)*not regularly offered*

Applied biological topics. Taught by staff from environmental and biomedical organizations. Topics change each semester. Prerequisite: instructor approval.

LSC 484 Internship (1-12)*fall, spring, summer*

Opportunities for students to pursue interests they develop in courses at ASU West. Especially appropriate for applied aspects of biology. Prerequisite: instructor approval.

Master of Arts in Interdisciplinary Studies**MAS 501 Models of Inquiry for Contemporary Issues (3)***fall, spring, summer*

This course provides students with a critical survey of current models of inquiry, tools, processes, and methods in different fields.

MAS 505 20th Century Thought: Concepts of Change, Culture and Mind (3)*fall, spring, summer*

This course introduces students to graduate-level interdisciplinary study of key thinkers, movements, theories and paradigms in 20th century thought.

MAS 510 Science and Religion: Cosmologies and Worldviews (3)*once a year*

This course will examine science and religion, stressing modern scientific findings and philosophical/ historical debates and dialogues.

MAS 511 Technology, Environment and Humanity (3)*once a year*

This course will critically analyze technology in relation to human and environmental issues.

MAS 512 History and Philosophy of the Social Sciences (3)*once a year*

Examines the development, historical context, and long-term importance of major theories of human nature from the 17th century until today.

MAS 513 Sociology of Everyday Life (3)*once a year*

Examination of institutional ethnography, a way of exploring the particular and generalized social relations that shape people's everyday experiences. Prerequisite: graduate standing or instructor approval.

MAS 553 Latin American Cities (3)*once a year*

An interdisciplinary study of Latin American world cities (Mexico City, Santiago, etc.) emphasizing integration with U.S. cities, including Los Angeles and Phoenix.

MAS 585 Capstone Course (3)*fall, spring, summer*

This course is designed to assist students in preparing their Capstone Project, which represents the culmination of their study for the M.A. in Interdisciplinary Studies.

Mathematics

MAT 106 Intermediate Algebra (3)

fall and spring only

Topics from basic algebra such as linear equations, polynomials, factoring, exponents, roots, and radicals. Prerequisite: 1 year of high school algebra.

MAT 114 College Mathematics (3)

fall and spring only

Applications of basic college-level mathematics to real-life problems. Appropriate for students whose major does not require MAT 117 or 170. Prerequisite: MAT 106 or 2 years of high school algebra. General studies: MA.

MAT 117 College Algebra (3)

fall and spring only

Linear and quadratic functions, systems of linear equations, logarithmic and exponential functions, sequences, series, and combinatorics. Prerequisite: MAT 106 or 2 years of high school algebra. General studies: MA.

MAT 119 Finite Mathematics (3)

spring only

Topics from linear algebra, linear programming, combinatorics, probability, and mathematics of finance. Prerequisite: MAT 117 or equivalent. General studies: MA.

MAT 170 Precalculus (3)

fall only

Intensive preparation for calculus (MAT 270). Topics include functions (including trigonometric), matrices, polar coordinates, vectors, complex numbers, and mathematical induction. Prerequisite with a grade of "B" or higher: MAT 106. Prerequisite with a grade of "C" or higher: MAT 117 or two years of high school algebra. General studies: MA.

MAT 210 Brief Calculus (3)

fall only

Differential and integral calculus of elementary functions with applications. Not open to students with credit in MAT 270 or MAT 260 or 290 (available at ASU Main). Prerequisite: MAT 117 or equivalent. General studies: MA.

MAT 270 Calculus with Analytic Geometry I (4)

spring only

Real numbers, limits and continuity, and differential and integral calculus of functions of 1 variable. Not open to students with credit in MAT 290 (available at ASU Main). Prerequisite with a grade of "C" or higher: MAT 170 or satisfactory score on placement examination. General studies: MA.

MAT 271 Calculus with Analytic Geometry II (4)

not regularly offered

Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, sequences, and series. Not open to students with credit in MAT 291 (available at ASU Main). Prerequisite with a grade of "C" or higher: MAT 270 or equivalent. General studies: MA.

MAT 272 Calculus with Analytic Geometry III (4)

not regularly offered

Vector-valued functions of several variables, multiple integration, and introduction to vector analysis. Prerequisite with a grade of "C" or higher: MAT 271 or equivalent. General studies: MA.

MAT 300 Mathematical Structures (3)

fall only

Introduction to rigor and proof in mathematics. Basic logic, set theory, mathematical induction, combinatorics, functions, relations, and problem solving. Prerequisites: ENG 101 (or 105) and one semester of calculus or instructor approval. General studies: L.

MAT 310 Introduction to Geometry (3)

spring only

Congruence, area, parallelism, similarity and volume, and Euclidean and non-Euclidean geometry. Prerequisite: MAT 272 or equivalent.

MAT 342 Linear Algebra (3)

fall and spring only

Linear equations, matrices, determinants, vector spaces, bases, linear transformations and similarity, inner product spaces, eigenvectors, orthonormal bases, diagonalization, and principal axes. Prerequisite: MAT 272 or equivalent.

MAT 362 Advanced Mathematics for Engineers and Scientists I (3)

not regularly offered

Vector analysis, Fourier analysis, and partial differential equations. Prerequisites: MAT 272 and 274 or equivalent.

MAT 371 Advanced Calculus I (3)

fall only

Continuity, Taylor's theorem, partial differentiation, implicit function theorem, vectors, linear transformations and norms in R^n , multiple integrals, and power series. Prerequisite: MAT 300 and 342.

MAT 411 History and Philosophy of Mathematics (3)

fall only

Examines nature of mathematics from origins to present, revealed by its history and philosophy. Strong background in mathematics not required. Cross-listed as HPS 411, IAS 411. General studies: HU, H.

Key to General Studies

Credit Abbreviations

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HU Humanities and fine arts core courses

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H Historical awareness courses

, and / or

MAT 443 Abstract Algebra (3)*spring only*

Introduction to the most important algebraic structures, including groups, rings, integral domains, and fields. Prerequisites: MAT 300 and 342 or instructor approval.

MAT 445 Theory of Numbers (3)*spring only*

Prime numbers, unique factorization theorem, congruences, Diophantine equations, primitive roots, and quadratic reciprocity theorem. Prerequisites: MAT 300 and 342 or instructor approval.

Microbiology**MIC 380 Medical Parasitology (3)***not regularly offered*

Parasitic diseases of humans, including life cycle events and clinical manifestations. Prerequisite: BIO 353 or BIO 385 or instructor approval.

MIC 420 Introductory Immunology (3)*summer only, not regularly offered*

Fundamental concepts in research and medicine. Cellular immunity, antibody and antigen, immunogenetics, immunoregulation, hypersensitivity, clinical immunology, and nervous-immune system interactions. Prerequisites: CHM 231 (or 331 available at ASU Main) and MIC 205 (or 220) or instructor approval.

Music**MUS 340 Listening to Music (3)***not regularly offered*

Major periods, composers, and compositions in the history of music. General studies: HU, H.

MUS 347 Music in America (3)*not regularly offered*

Current styles of American music including jazz, popular, and folk music. General studies: HU.

MUS 354 Popular Music (3)*not regularly offered*

Emphasis on historical, cultural, and performance patterns in a variety of popular idioms such as, but not limited to, rock, folk, jazz, and Afro-American music. General studies: HU.

MUS 355 Survey of American Music (3)*not regularly offered*

Growth and development of American music. General studies: HU.

MUS 356 Survey of the Musical Theatre (3)*not regularly offered*

Music's place in the theatre, viewed in terms of historical importance and relative function. General studies: HU.

Philosophy**PHI 101 Introduction to Philosophy (3)***fall and spring only*

Exploration of issues that philosophers have traditionally considered, including morality, reality, and knowledge. General studies: HU.

PHI 103 Principles of Sound Reasoning (3)*not regularly offered*

Fallacies, validity, and soundness of arguments. May include syllogistic, elementary symbolic, inductive logic, and scientific method. Prerequisite: ENG 101 (or 105). General studies: L/HU.

PHI 105 Introduction to Ethics (3)*not regularly offered*

Philosophical examination of such questions as, How should we live? Is morality a social invention? Does anything matter? General studies: HU.

PHI 306 Applied Ethics (3)*fall, spring, summer*

Philosophical techniques are used to elucidate such vital moral issues as sexual perversion, civil disobedience, abortion, punishment, violence and pacifism, suicide, and euthanasia. General studies: HU.

PHI 360 Business and Professional Ethics (3)*fall, spring, summer*

Examines moral theories applied to cases of corporate responsibility, property rights, environment, fairness, profit, employee rights, and responsibilities. General studies: HU.

PHI 406 Moral Dilemmas (3)*fall and spring only*

Philosophical analysis of moral dilemmas arising in professional and public settings. Ethical decision making in business, educational, human service, and scientific communities. Cross-listed as IAS 406. Prerequisite: ENG 101 (or 105). General studies: L/HU.

PHI 407 Environmental Philosophy and Policy (3)*fall only*

Ethical concepts and theories applied to environmental issues: biotic community, bio-diversity, degradation, ecofeminism, ecology, economics, population, property rights, and wilderness. Not open to students with credit in PHI 310 (available at ASU Main). Cross-listed as IAS 407. Prerequisite: ENG 101 (or 105). General studies L/HU.

Physics**PHY 111 General Physics (3)***not regularly offered*

Noncalculus treatment of the principles of physics for nonphysics majors. Students whose curricula require a laboratory course must also register for PHY 113. 3 hours lecture, 1 hour recitation. Prerequisite: trigonometry. General studies: SQ (if credit also earned in PHY 113).

PHY 112 General Physics (3)

not regularly offered

Continuation of PHY 111. Students whose curricula require a laboratory course must also register for PHY 114. Prerequisite: PHY 111. General studies: SQ (if credit also earned in PHY114).

PHY 113 General Physics Laboratory (1)

not regularly offered

Elementary experiments in physics. 2 hours lab. Outside preparation for experiments and report writing are required. May be taken concurrently with, or subsequent to, PHY 111. General studies: SQ (if credit also earned in PHY 111).

PHY 114 General Physics Laboratory (1)

not regularly offered

See PHY 113. May be taken concurrently with, or subsequent to, PHY 112. General studies: SQ (if credit also earned in PHY 112).

Plant Biology

PLB 300 Comparative Plant Diversity (4)

not regularly offered

Systematic and evolutionary survey of the plant kingdom, emphasizing diversity of gross and cellular structure, reproduction, life cycles, and habitat. 3 hours lecture, 3 hours lab. Fee or deposit. Prerequisites: ENG 101 (or 105); BIO 100 or 182 or equivalent. General studies: L/SG.

Political Science

POS 101 Political Ideologies (3)

fall and spring only

Leading political ideas and belief systems, e.g., Marxism, liberalism, conservatism, theories of democracy, and alternative futures. Not open to students with credit for POL 340. General studies: SB.

Politics

POL 310 American National Government: Ideas and Institutions (3)

fall, spring, summer

Historical, analytic context of constitutionalism and citizenship vis-a-vis social, economic, and political institutions. Meets the federal government requirement for teacher certification. Not open to students with credit for POS 110 (available at ASU Main). General studies: SB, H.

POL 313 The Congress (3)

spring only

The modern American Congress: Its role, power and interrelationship in the American political system. General studies: SB.

POL 314 The American Presidency (3)

fall only

Office, role, and power of the American presidency in the American political system. General studies: SB.

POL 320 Latino Politics (3)

once a year

Examination of contemporary political issues in the diverse Latino community. General studies: SB, C.

POL 331 Public Opinion (3)

spring only

Examination of U.S. public opinion, the diversity of its cultural sources, and political influence. General studies: SB.

POL 336 Electoral Behavior (3)

not regularly offered

Voting behavior and the attitudes, perceptions, and activities of the citizenry in the political process. General studies: SB

POL 340 Political Theory (3)

fall only

Survey of ancient, modern, and contemporary political theorists and ideas in European and American contexts. Not open to students with credit for POS 101. Prerequisite: ENG 101 (or 105). General studies: L/HU, H.

POL 350 Comparative Politics (3)

spring only

Theoretical approaches and political institutions, such as parties, pressure groups, legislatures, and executives, from a cross-national perspective. General studies: SB, G.

POL 360 World Politics Theory (3)

fall only

Theoretical examination of one or more aspects of international politics, e.g., foreign policy, negotiations, alliances, crises, wars, and international systems. Not open to students with credit for POS 160 (available at ASU Main). General studies: SB, G.

POL 361 American Foreign Policy (3)

fall only

United States in world affairs; foreign policy since World War I. Techniques in formulating American foreign policies. General studies: SB, G.

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POL 417 The Arizona Political System (3)*once a year*

Contemporary political problems within the context of Arizona's political, social, and constitutional frameworks. Meets the Arizona Constitution requirement for teacher certification.

POL 430 Race and Politics in the Americas (3)*once a year*

The study of racial politics in North, Central, and South America with a focus on the United States. General studies: SB, G.

POL 434 Media and Politics (3)*fall and spring only*

The study of mass media and politics in the United States, e.g., media and elections, media and government. General studies: SB.

POL 435 Women, Power, and Politics (3)*once a year*

The roles and treatment of women within various political contexts. Specific focus may vary with instructor. General studies: SB, C.

POL 436 Gender, Sexuality, Nation-States (3)*not regularly offered*

Issues and problems related to the interface of gender, sexualities, nationalisms and states in various world contexts. General studies: SB, G.

POL 440 Political Futures through Science Fiction (3)*not regularly offered*

Examination of the relationship between politics and science fiction literature and film. Prerequisite: ENG 101 (or 105). General studies: L/HU.

POL 446 Democracy (3)*spring only*

Issues and problems in democratic theory, e.g., the nature of democracy, majority rule, representation, equality, and the value of political participation. General studies: HU.

POL 453 Latin American Cities (3)*spring only*

Urban studies of Latin American world cities, e.g., Mexico City, Santiago, emphasizing integration with U.S. cities, including Los Angeles, Phoenix. General studies: SB, G.

POL 454 Mexico: Politics, Economy, Cultures (3)*fall and spring only*

Politics, economy, and cultures in Mexico in historical and contemporary perspective. General studies: SB, G.

POL 460 Politics of Globalization (3)*spring only*

Theories and analysis of the politics of economic and technological globalization in the contemporary world. General studies: SB, G.

POL 470 Law and the Political Order (3)*spring only*

Investigation of concepts of justice, political rights, adjudication and legislation, legal ordering, constitutional law, law as an instrument of change. General studies: SB, H.

POL 484 Internship (1-6)*fall, spring, summer*

Structured practical experience supervised in the field by practitioners and overseen by the departmental internship coordinator. Prerequisite: prior approval of internship coordinator and department chair.

POL 486 Global Political Economy (3)*fall and spring only*

Contending approaches to historical and contemporary issues of international political economy, including global welfare, equality, ecology, and peace. General studies: SB, G.

Psychology (Social & Behavioral)

PGS 101 Introduction to Psychology (3)*fall and spring only*

Major areas of theory and research in psychology. Participation in department-sponsored research or an educationally equivalent alternative activity is required. General studies: SB.

PGS 304 Effective Thinking (3)*fall, spring, summer*

Understanding and improving your intellectual and behavioral skills; information analysis, inference, logic, problem solving, and decision making. Prerequisites: ENG 101 (or 105); MAT 119 or PSY 230 or equivalent. General studies: L.

PGS 306 Environmental Psychology (3)*not regularly offered*

Concepts and research strategies in the study of behavior in interaction with physical environment. Prerequisite: PGS 101. General studies: SB.

PGS 315 Personality Theory and Research (3)*not regularly offered*

Definition and description of personality in terms of theoretical and methodological approaches. Prerequisites: PGS 101; PSY 290. General studies: SB.

PGS 341 Developmental Psychology (3)*fall and spring only*

Behavior development analyzed in terms of psychological principles. Current research in human development. Prerequisites: PGS 101; PSY 290. General studies: SB.

PGS 344 Directed Child Study (3)*fall and spring only*

Theories and methods of intervention with pre-school children and supervised practicum in the Child Study Laboratory. 1 hour lecture, 6-8 hours practicum. Prerequisites: ENG 101 (or 105); PGS 101. General studies: L/SB.

PGS 350 Social Psychology (3)*fall, spring, summer*

Human social behavior, including such concepts as aggression, attraction, attribution, conformity, groups, helping, person perception, and persuasion. Prerequisite: PGS 101. General studies: SB.

PGS 370 Interpersonal Relationships (3)*fall and spring only*

Development of personal skills for competent functioning in interpersonal relationships across multiple social contexts. Principles of mental health adjustment. Prerequisite: PGS 101 or equivalent. General studies: SB.

PGS 399 Supervised Research (1-3)*fall, spring, summer*

Experience within the context of current faculty research projects. Student is assigned responsibility depending on qualifications. "Y" grade only. May be repeated for a total of 6 hours. Prerequisites: approval of faculty member prior to registration; "B" average in major. Pre or corequisite: PSY 230 or equivalent.

PGS 414 History of Psychology (3)*not regularly offered*

Historical development of psychology from its philosophical beginnings to the present. Prerequisites: PGS 101; PSY 230, 290. General studies: L/SB.

PGS 427 Psychology of Aging (3)*spring only*

Behavioral, experiential, and emotional phenomena associated with aging. Analysis of retained abilities and resources as well as losses and stresses. Prerequisites: PGS 101, 341. General studies: L/SB.

PGS 430 Industrial Psychology (3)*once a year*

Organizations and management systems: motivation and work performance; human factors in systems design and evaluation; personnel selection and testing. Prerequisite: MGT 301 or PGS 350.

PGS 442 Life Span Development (3)*spring only*

Methods and findings of recent studies of the development, growth, and problems of adolescents and adults, with implications for education. Prerequisite: PGS 341. General studies: SB.

PGS 443 Abnormal Child Psychology (3)*spring only*

The major disorders of childhood and adolescence (e.g., autism, hyperactivity, phobias, and delinquency) are covered, including cause, diagnosis, treatment, and prevention. Prerequisites: ENG 101 (or 105); PGS 101 and one course from among PGS 315, 341, 350 or instructor approval. General studies: L/SB.

PGS 444 Adolescent Psychology and Psychopathology (3)*fall only*

An advanced level survey of normal adolescent psychological development and psychological disorders of this age period. Lecture, discussion. Prerequisites: PGS 101, 341; PSY 290.

PGS 446 Social Development (3)*fall only*

Theory, research, and issues regarding social development are discussed. Example topics: formation of attachments, prosocial development, and gender-role development. Lecture, seminar. Prerequisite: PGS 341. General studies: L/SB.

PGS 453 Organizational Behavior (3)*spring only*

A survey of psychological theory and research as applied to the behavior of individuals in organizational settings. Lecture, discussion. Prerequisites: PGS 101, 350 or instructor approval. General studies: SB.

PGS 458 Group Dynamics (3)*once a year*

Theories and methods of group leadership, group effectiveness, communication within groups, and relations between groups and individual members. Prerequisite: PGS 350. General studies: SB.

PGS 462 Health Psychology (3)*not regularly offered*

Contributions of psychology to health promotion and illness prevention, adaptation to acute and chronic illness, and to the health care system. Prerequisites: PSY 230, 290.

PGS 465 Psychology of Stress and Coping (3)*not regularly offered*

Readings in theory and research in the area of stress and coping. Lecture, discussion, class presentations. Prerequisites: PGS 315 or 350; PSY 290. General studies: L/SB.

PGS 466 Abnormal Psychology (3)*fall and spring only*

Historical and current definitions, theory, and research concerning abnormal behavior. Major categories of psychopathology, including related treatment approaches. Prerequisites: PGS 101; PSY 290. General studies: SB.

PGS 468 Psychology and Law (3)*spring only*

Theories, research, and practice in psychology as related to law, including criminal, civil, domestic relations, and professional issues. Prerequisite: PGS 101.

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,
and
/ or

PGS 472 Clinical Psychology (3)*spring only*

Clinical psychology as a science and profession. Historical development, methods of interviewing, assessment, and therapeutic intervention. Prerequisite: PGS 466.

PGS 480 Cross-Cultural Social Psychology (3)*once a year*

Focuses on patterns of social behavior in individualistic and collectivistic cultures. Includes multi-disciplinary research using qualitative and quantitative methodologies. Prerequisite: PGS 101 and 350. General studies: SB, G.

PGS 481 Psychology of Social Issue (3)*not regularly offered*

Focuses on how theory and research from psychology and other social sciences contribute to an understanding of contemporary social issues. Prerequisites: ENG 101 (or 105); PGS 101. General studies: L/SB.

PGS 482 Social Influence and Consumer Behavior (3)*once a year*

Discusses social influence principles, emphasizing strategies employed by professionals that affect consumer behavior. Analyzes consumer defenses against manipulations. Prerequisite: PGS 350. General studies: SB.

PGS 483 Cross-Cultural Child Development (3)*not regularly offered*

Covers similarities and differences in children's development from infancy through adolescence across world cultures. Prerequisite: PGS 341 or equivalent or instructor approval. General studies: SB, G.

PGS 485 Development of Children's Ethnic Identity (3)*not regularly offered*

Course examines the influence of individual socio-historical, and cultural factors on the development of ethnic identity. Prerequisite: PGS 101.

PGS 494 Special Topics (3)*fall, spring, summer*

Topics may include theoretical and applied areas of psychology (e.g., infant development).

Psychology (Science & Mathematics)

PSY 230 Introduction to Statistics (3)*spring only*

Basic concepts in descriptive and inferential statistics, emphasizing applications to psychology. Prerequisites: MAT 117; PGS 101. General studies: CS.

PSY 290 Research Methods (4)*spring only*

Planning, execution, analysis, and reporting of experiments. Literature, procedures, and instruments in representative areas of psychological research. 3 hours lecture, 3 hours lab. Prerequisites: ENG 101 (or 105); PSY 230. General studies: L/SG.

PSY 323 Sensation and Perception (3)*fall and spring only*

Underlying processes of vision, audition, and the other senses. Application of current research and theory in a laboratory environment. Prerequisite: PSY 290 or instructor approval.

PSY 324 Memory and Cognition (3)*fall and spring only*

Processes underlying information storage and retrieval, including different kinds of memory, forgetting, depth of processing, and control processes. Prerequisite: PSY 290. General studies: SB.

PSY 325 Physiological Psychology (3)*fall only*

Relationships of physiological processes to behavior. Emphasis is on nervous system functioning. Prerequisites: PSY 290 or two courses in biological science; instructor approval.

PSY 330 Statistical Methods (3)*spring only*

Advanced application of statistics to psychology. Highly recommended for students interested in attending graduate school. 3 hours lecture, 1 hour lab. Prerequisite: PSY 230. General studies: CS.

PSY 425 Biological Bases of Behavior (3)*spring only*

Critical study of physiological psychology; brain mechanisms underlying motivation, learning, etc. ENG 101 (or 105); PSY 325. General studies: L.

PSY 433 Human Psychophysiology (3)*not regularly offered*

Emphasis on human physiological-behavioral relationships. Topics include physiological change associated with imagery, stress, attention, skill learning, lying, and biofeedback. Prerequisite: PSY 325.

Religious Studies

REL 100 Religions of the World (3)*fall only*

An introduction to the history of religious traditions of the world, including Buddhism, Christianity, Hinduism, Islam, Judaism, and others. Not open to students who have completed REL 200 (available at ASU Main). General studies: HU, G.

REL 305 Ritual, Symbol, and Myth (3)*fall and spring only*

Ritual, symbol, and myth as types of religious expression, with examples selected from the non-literate religions of the world. Prerequisite: ENG 101 (or 105). General studies: L/HU.

REL 320 Religion in America (3)*fall only*

The emergence of religious ideas and institutions up to the Civil War. General studies: HU, H.

REL 321 Religion in America (3)*spring only*

The emergence of religious ideas and institutions from the Civil War to the present. Prerequisite: ENG 101 (or 105). General studies: L/HU, H.

REL 390 Women and Religion (3)

not regularly offered

The role of women in several organized religions and/or religious sects, including a study of myth and symbols as they are used to establish, maintain, and enforce sex-roles within specific religions. Prerequisite: ENG 101 (or 105). General studies: L/SB, G.

REL 420 Religion in American Life and Thought (3)

fall only

The influence of religion on American society, culture, and ideas; the distinctive character of religion in America. Prerequisite: REL 321 recommended.

Social and Behavioral Sciences

SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences (3)

once a year

The interdisciplinary approach to the study of social life. General studies: SB.

SBS 301 Cultural Diversity (3)

fall and spring only

Socially structured differences in historical and cross-cultural perspective. Prerequisite: ENG 101 (or 105). General studies: L/SB, C.

SBS 302 Qualitative Methods (3)

spring only

Basic methodological issues in the systematic application of qualitative analysis of human social life. Surveys range of qualitative methods used by social and behavioral scientists. General studies: SB.

SBS 303 Quantitative Methods (3)

fall only

Concepts underlying design and implementation of quantitative research methods.

SBS 304 Social Statistics I (3)

fall and spring only

Statistical techniques of the social and behavioral sciences. General studies: CS.

SBS 404 Social Statistics II: Multivariate Analysis (3)

not regularly offered

Analysis of variance, multiple regression, dummy variable regression, path analysis, and related topics. Computer application to problem solving. Prerequisites: SBS 303 and 304 or instructor approval. General studies: CS.

SBS 410 Topics in Identity/Difference (3)

fall and spring only

Topics which focus on race/ethnic, gender, sexual or cultural identity/difference. May be repeated for credit when topics vary. General studies: SB.

SBS 430 Topics in Power/Knowledge (3)

fall and spring only

Discussion of selected topics concerning the effects of political and social institutions on perceptions of politics and political culture. May be repeated for credit when topics vary. General studies: SB.

SBS 440 Family Studies (3)

once a year

Theoretical frameworks for analyzing the development of family systems. Impact of social and economic conditions on family forms. May be repeated for credit when topics vary. General studies: SB.

SBS 450 Topics in Local/Global (3)

fall and spring only

Examines links between social, political, economic changes at local, national, global levels. May be repeated for credit when topics vary. General studies: SB, G.

SBS 460 Urban Studies (3)

fall and spring only

Study of local/global urban issues like social geography, political economy, culture and social space, urban social diversity. May be repeated for credit when topics vary. General studies: SB.

SBS 484 Internship (1-6)

fall, spring, summer

Structured practical experience supervised in the field by practitioners and overseen by the departmental internship coordinator. Prerequisite: prior approval of internship coordinator and department chair.

SBS 490 Senior Thesis I (3)

fall, spring, summer

Supervised, independent, interdisciplinary research and writing on an intellectual issue or social problem chosen by the student. First part of a six-credit sequence, followed by SBS 491. Prerequisite: approval of departmental advisor and department chair.

SBS 491 Senior Thesis II (3)

fall, spring, summer

Supervised, independent, interdisciplinary research and writing on an intellectual issue or social problem chosen by the student. Second part of a six-credit sequence. Prerequisite: SBS 490; approval of departmental advisor and department chair.

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Sociology

SOC 101 Introductory Sociology (3)

fall and spring only

Fundamentals of sociology, organization of human groups and society, processes of interaction, and social change. Not open to students who have credit for SOC 301. 2 hours lecture, 1 hour discussion. General studies: SB.

SOC 301 Principles of Sociology (3)

spring only

Intensive and critical analysis of the concepts of sociology. Not open to students who have credit for SOC 101. General studies: SB.

SOC 315 Courtship and Marriage (3)

fall and spring only

An overview of courtship, marriage, and related processes, focusing on problematical aspects of these institutions from the sociological perspective. Prerequisite: SOC 101 (or 301) or instructor approval. General studies: SB.

SOC 324 Work and the Workplace (3)

not regularly offered

Historical and comparative examination of changes in the structure and meaning of work and current shifts in people's work lives. General studies: SB, H.

SOC 331 Migration (3)

not regularly offered

Introduction to the definition and analysis of migration in all forms. General studies: SB, G.

SOC 332 The Modern City (3)

once a year

Growth, characteristics, and problems of the modern city. Prerequisite: SOC 101 (or 301). General studies: SB.

SOC 340 Sociology of Deviant Behavior (3)

once a year

A sociological analysis of stigmatized behaviors and conditions, including the causes, effects, and management of stigma. Prerequisite: SOC 101 (or 301) or instructor approval. General studies: SB.

SOC 341 Modern Social Problems (3)

once a year

Race relations, poverty, unemployment, and other current issues. Prerequisite: ENG 101 (or 105). General studies: L/SB.

SOC 352 Social Change (3)

fall and spring only

Patterns of social change, resistance to change, and change-producing agencies and processes. Prerequisite: SOC 101 (or 301). General studies: SB, G, H.

SOC 353 Death and Dying in Cross-Cultural Perspectives (3)

fall and spring only

Humanistic and scientific study of aging, sickness, dying, death, and grief and their philosophy and ecology in non-Western and Western cultures. Cross-listed as ASB 353. General studies: HU/SB, G.

SOC 354 Popular Music and Society (3)

summer only

This class places contemporary music in its social, economic and political context; usually offered with MUS 354. General studies: HU.

SOC 360 Sociological Psychology (3)

not regularly offered

Interaction patterns between the sociocultural order and individuals; socialization process; norms, roles, and statuses; collective behavior. Prerequisite: SOC 101 (or 301). General studies: SB.

SOC 364 Popular Culture (3)

fall and spring only

Study of the social approaches to popular culture, focusing on the function of various forms (literature, film, theatre, and music). General studies: SB, G.

SOC 365 Sociology of Mass Communication (3)

not regularly offered

A sociological exploration of the major mass media as a communicative process in American society. General studies: SB.

SOC 366 Film and Society (3)

fall only

Study of the social approaches to film as an art form, mass medium, and ideological construct. General studies: SB.

SOC 370 Racial and Ethnic Minorities (3)

spring only

Problems of minorities in the United States and in other racially and ethnically heterogeneous societies. Evaluation of theories of prejudice and of research dealing with discrimination, desegregation, and assimilation. Prerequisites: SOC 101 (or 301). General studies: SB, C.

SOC 394 Special Topics (3)

fall, spring, summer

Topics may include film and society, women, work and the border economy, sports and society, women and religion.

SOC 400 Aging in the New Millennium (3)

fall and spring only

Multidisciplinary introduction to the study of aging in individuals, families, and society. Cross-listed as GRN 400. General studies: SB.

SOC 418 Aging and the Life Course (3)

once a year

Examines aging as a process of change and adaptation over the lifespan, patterned by social, cultural, and historical forces. Prerequisite: SOC 101 (or 301). General studies: SB, H.

SOC 419 Organizations and Technological Change (3)

spring only

Explores the increasing impact of information technology on corporate, governmental, and private organizations. May involve fieldwork.

SOC 424 Social Inequality (3)

once a year

Examines stability and change in social inequality based on age, class, ethnicity, gender, and race. General studies: SB.

SOC 429 Sociology of Law (3)

not regularly offered

Examination of law as an institution; its origins, operations, and consequences. Emphasis on contemporary legal issues and problems. Prerequisite: SOC 101 (or 301). General studies: SB.

SOC 456 Political Sociology (3)

spring only

Social factors associated with voting; nature and structure of the electorate and political parties and the nature of national and international power structure. Prerequisite: SOC 101 (or 301) or instructor approval. General studies: SB, G.

SOC 457 Social Movements and Social Change (3)

once a year

The processes by which groups mobilize and collectively pursue social goals such as equality, justice, peace, and salvation. Prerequisite: ENG 101 (or 105). General studies: SB, G.

SOC 484 Internship (1-6)

fall, spring, summer

Structured practical experience supervised in the field by practitioners and overseen by the departmental internship coordinator. Prerequisite: prior approval of internship coordinator and department chair.

SOC 486 Contemporary Theory (3)

fall and spring only

Contemporary issues and crises in social theory with major focus on particular theorists. Ideological factors in theory, philosophical issues, the nature of theory, and its relationship with methodology. Prerequisite: SOC 101 (or 301) or instructor approval. General studies: SB.

Spanish

SPA 101 Elementary Spanish (4)

fall only

Fundamentals of the language. Emphasis on listening, speaking, reading, and writing. Not open to students with credit in SPA 111 (available at ASU Main). 4 hours lecture, 1 hour lab.

SPA 102 Elementary Spanish (4)

spring only

See SPA 101. Not open to students with credit in SPA 111 (available at ASU Main). Prerequisite: SPA 101 or equivalent.

SPA 107 Spanish for International Professions I (8)

not regularly offered

Accelerated program alternative to SPA 101 and 102 sequence. Functional approach to needs of international professions.

SPA 201 Intermediate Spanish (4)

not regularly offered

Continuation of fundamentals. Emphasis on the development of the skills of reading, listening comprehension, speaking, writing, and culture. 4 hours lecture, 1 hour lab. Prerequisite: SPA 102 or equivalent. General studies: G.

SPA 202 Intermediate Spanish (4)

not regularly offered

See SPA 201. Prerequisite: SPA 201 or equivalent. General studies: G.

SPA 207 Spanish for International Professions II (8)

not regularly offered

Continuation of SPA 107, alternative to SPA 201 and 202 sequence. Expansion of communicative proficiency in specific areas of international professions. Prerequisite: SPA 107 or instructor approval.

SPA 311 Spanish Conversation (3)

fall only

Designed primarily for nonmajors to promote vocabulary building and communicative expression in Spanish through discussions based on cultural readings. Prerequisite: SPA 202 or equivalent.

SPA 312 Spanish Conversation (3)

spring only

See SPA 311. Prerequisite: SPA 202 or equivalent.

SPA 313 Spanish Conversation and Composition (3)

not regularly offered

Designed to develop skill and accuracy in spoken and written Spanish. Required of majors; SPA 313 and 314 must be taken in sequence. Prerequisite: SPA 202 or equivalent. General studies: G.

SPA 314 Spanish Conversation and Composition (3)

not regularly offered

See SPA 313. Prerequisite: SPA 202 or equivalent. General studies: G.

SPA 325 Introduction to Hispanic Literature (3)

not regularly offered

A critical approach to and analysis of literary types, including poetry, drama, short story, and novel. Required of all majors. Prerequisite: SPA 202. General studies: HU.

Key to General Studies

Credit Abbreviations

L Literacy and critical inquiry core courses

MA Mathematics core courses

CS Computer/statistics/quantitative applications core courses

HU Humanities and fine arts core courses

SB Social and behavioral sciences core courses

SG Natural sciences-general core courses

SQ Natural sciences-quantitative core courses

C Cultural diversity in the United States courses

G Global awareness courses

H Historical awareness courses
, and
/ or

SPA 412 Advanced Conversation and Composition (3)*not regularly offered*

Oral and written Spanish communication skills, with particular attention given to developing fluency and facility. Required of majors. Prerequisite: SPA 314 or instructor approval. General studies: G.

SPA 413 Advanced Spanish Grammar (3)*not regularly offered*

Intensive analysis of the Spanish language. Required of teaching majors. Prerequisite: SPA 314 or instructor approval. General studies: G.

SPA 425 Spanish Literature (3)*not regularly offered*

Survey of Spanish literature from its beginning to the present. Prerequisite: SPA 325. General studies: HU.

SPA 426 Spanish Literature (3)*not regularly offered*

Survey of Spanish literature from 1700 to the present. Prerequisite: SPA 325. General studies: HU.

SPA 427 Spanish-American Literature (3)*not regularly offered*

Survey of major works, figures, and movements from Colonial period to 1880. Prerequisite: SPA 325.

SPA 428 Spanish-American Literature (3)*not regularly offered*

Survey of major works, figures, and movements from 1880 to the present. Prerequisite: SPA 325.

SPA 464 Mexican American Literature (3)*not regularly offered*

Representative literature in Spanish and English by Mexican Americans, emphasizing sociocultural as well as literary values. Prerequisite: SPA 325. General studies: HU, C.

SPA 472 Spanish-American Civilization (3)*not regularly offered*

Growth of the institutions and cultures of Spanish-American people. Prerequisite: SPA 314 or instructor approval. General studies: HU.

Statistics and Probability**STP 420 Introductory Applied Statistics (3)***not regularly offered*

Introductory probability, descriptive statistics, sampling distributions, parameter estimation, tests of hypotheses, chi-square tests, regression analysis, analysis of variance, and nonparametric tests. Prerequisite: MAT 117 or equivalent. General studies: CS.

Theatre**THE 100 Introduction to Theatre (3)***fall and spring only*

Survey of theatre production from the Greeks to contemporary theatre. Taught in conjunction with distance learning. Lecture, discussion, guest artists. Prerequisite: Non-major. General studies: HU.

THE 300 Film: The Creative Process (3)*not regularly offered*

Elements of the theatrical film: cinematography, sound, editing, directing, acting, scriptwriting, producing, and criticism. 3 hours lecture, 2 hours lab. General studies: HU.

THE 320 History of the Theatre (3)*fall only*

Traces major developments in theatre production from its beginning to the 17th century. General studies: HU, H.

THE 321 History of Theatre (3)*spring only*

Traces major developments in theatre production from the 17th century to modern times. General studies: HU, H.

THE 400 Focus on Film (3)*not regularly offered*

Specialized study of prominent film artists, techniques and genres. Emphasis is on the creative process. May be repeated once for credit. Prerequisite: ENG 101 or 105.

THE 494 Special Topics (3)*not regularly offered*

Topics may include film and society, women in film, experimental film.

Theatre Performance and Production**THP 301 Theatre Production (1 4)***not regularly offered*

Participation in university theatre productions. May be repeated for credit. Prerequisite: written instructor approval.

THP 394 Special Topics (3)*not regularly offered*

Topics may be selected from the following:

- Acting for Non-Majors
- Acting for the Camera
- Theatre Studio/Workshop I
- Television Production

THP 494 Special Topics (3)*not regularly offered*

Topics may be selected from the following:

- Acting for Non-Majors
- Acting for the Camera
- Storytelling and Poetry
- Theatre Studio/Workshop II

Writing Across the Curriculum

WAC 101 Introduction to Academic Writing (3)

fall and spring only

Combines classroom and supplemental instruction to teach academic genres of writing, including definition, summary, and analysis.

Women's Studies

WST 100 Women and Society (3)

spring only

Interdisciplinary introduction examining critical issues in women's studies. Not open to students who have credit for WST 300. General studies: SB, C.

WST 300 Women in Contemporary Society (3)

fall and spring only

Interdisciplinary examination of such topics as gender roles, work, education, sexuality, politics, health, and law. Not open to students who have credit for WST 100. Prerequisite: ENG 101 (or 105). General studies: L/SB, C.

WST 312 Language, Gender, and Society (3)

spring only

The linguistic and cultural heterogeneity of U.S. society will be examined with respect to race, ethnicity, class and gender. General studies: HU, C.

WST 320 Women in Popular Culture (3)

fall only

Analyzes from a historical perspective the images of women in magazines, films, advertising, toys, and other popular culture forms. General studies: HU, C, H.

WST 350 Race, Class, and Gender (3)

fall and spring only

Explores the intersections of race, class, and gender in the U.S. and world, as forces of social control, oppression, and liberation. General studies: SB, C.

WST 370 Chronicling Women's Lives (3)

once a year

Explores the lives of a selected group of American women as a point of departure for the chronicling of contemporary women's lives. General studies: HU, C, H.

WST 376 Feminist Theory (3)

once a year

Exploration of feminist theories and the intersection of gender, race, ethnicity, and class through critical analyses. Prerequisite: ENG 101 (or 105). General studies: L, C.

WST 390 Women and World Religions (3)

once a year

A comparative examination of vital issues about women and religions in different places of the world and different historical periods. Prerequisite: ENG 101 (or 105). General studies: L/SB, G.

WST 394 Special Topics (3)

fall and spring only

Selected topics in women's studies, such as:

- a) Cultural Diversity
- b) Gender and Sexuality

WST 422 Women and Science (3)

not regularly offered

Examines the role of women in science, the construction of gender in science, and the impact of science on women. Cross-listed as HPS 422, IAS 422.

Prerequisite: ENG 101 (or 105). General studies: L/HU, H.

WST 431 Women and Film (3)

once a year

Comparative international course explores ways feminist directors have broken the Hollywood mold in films focusing on women. Prerequisite: ENG 101 (or 105). General studies: L, G.

WST 457 Women, Cultures, and Societies (3)

fall only

Examines issues such as poverty, dependency, interdependency, race, class, and gender in different societies of the world. General studies: SB, G.

WST 461 Contemporary Latin American Women Writers (3)

once a year

A critical examination of literature (in translation) by contemporary Latin American women writers.

Prerequisite: ENG 101 (or 105). General studies: L/HU, G.

WST 467 Ethnic Women Writers (3)

fall only

Concentrates on selected women writers of the United States who are Native American, African American, Latina, and Asian-American. Cross-listed as AMS 422, ENG 467. Prerequisite: ENG 101 (or 105). General studies: L/HU, C.

WST 473 Latina/Chicana Representation (3)

not regularly offered

Examines from an interdisciplinary perspective contemporary issues experienced by Chicana/Latina women in the U.S. Cross-listed as AMS 429. General studies: SB, C.

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G Global awareness courses

H Historical awareness courses

, and / or

WST 475 Women of the Diaspora Across Cultures (3)
not regularly offered

Course examines the socioeconomic condition, political formation and identities of contemporary indigenous, ethnic minority, immigrant and migrant women globally. General studies: HU, G.

WST 480 Gender Issues in Education (3)
not regularly offered

Studies contemporary gender inequalities in schooling by applying social sciences methods. Also focuses on race, class and age differences among women. General studies: SB, C.

WST 483 Contemporary Women Writers (3)
once a year

A comparative approach to contemporary writings by women from around the world. General studies: HU, G.

WST 487 Gender and International Development (3)

fall and spring only

Addresses conceptual, methodological and theoretical issues concerning gender, development and internationalism; evaluates theories and models for change. General studies: SB, G.

WST 494 Special Topics (3)

fall and spring only

Selected topics in women's studies, such as:

- a) Aging: Women/Minority Issues
- b) Social History of American Women
- c) Women, Power and Politics

WST 498 Pro-Seminar: Theory and Method in Women's Studies (3)

spring only

Reading and research on important theoretical and methodological issues in women's studies. Prerequisite: ENG 101 (or 105). General studies: L.

Omnibus courses: See pages 55-57 for omnibus courses that may be offered.