

College of Arts and Sciences

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**Interim Dean:**

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Location:

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College website:

www.west.asu.edu/coas/

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Hattenhauer, Koptiuch, Lentz, Mengesha,
Miller, Moulton, Murphy Erfani, Nájuez,
Pambuccian, Pulido, Sabatini, Stryker,
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Assistant Professors:

Anastasi, Burleson, Carter, Champion,
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Kennedy, Lash, Medville, St. Clair

Visiting Assistant Professors:

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Senior Lecturers:

Aleshire, Hay, Luken, Schmidtke,
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Ackroyd, Corley, Persau, Sweat, Wilson

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. Political Science
- 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.

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

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

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

Students considering graduate work after completion of a bachelor’s degree should consult with faculty advisors regarding language requirements in their intended areas of study.

A. Language and Cultures

This 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; 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.

B. Mathematics

1. MAT 114 or 117; or
2. any higher level MAT course.

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.

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. A grade of “C” or better is required in all courses taken for the major.

	Semester Hours
Lower division courses required	12
ENG 221, 222 Survey of English Literature (HU, H)	
ENG 241, 242 American Literature (HU)	
Upper division courses required	15
ENG 311 Persuasive Writing (L)	
ENG 323 Rhetoric and Grammar for Writers and Teachers (L)	
ENG 400 History of Literary Criticism (HU)	
ENG 473 Shakespeare	
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 a faculty advisor)	18
Total	<u>45</u>

Minor in English

The Minor in English requires 21 semester hours in English, at least nine of which must be in upper division courses.

	Semester Hours
Lower division courses required	12
ENG 221, 222 Survey of English Literature	
ENG 241, 242 American Literature	
Upper division courses required	9
ENG 311 Persuasive Writing	
ENG 323 Rhetoric and Grammar	
ENG 473 Shakespeare	
Total	<u>21</u>

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. A grade of “C” or better is required in all courses taken for the major.

	Semester Hours
Lower division courses required	12
ENG 221, 222 Survey of English Literature	
ENG 241, 242 American Literature	
Upper division courses required	12
ENG 311 Persuasive Writing	
ENG 323 Rhetoric and Grammar	
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)	18
Total	<u>42</u>

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.

	Semester Hours
Lower division courses required	9
1. Select one course from the following: ENG 221 Survey of English Literature ENG 241 American Literature	
2. ENG 222 Survey of English Literature	
3. ENG 242 American Literature	
Upper division courses required	12
1. ENG 311 Persuasive Writing	
2. ENG 323 Rhetoric and Grammar	
3. ENG 473 Shakespeare	
4. One course in the literature of ethnicity <i>or</i> one course in the literature of gender as approved by a faculty advisor	
Total	<u>21</u>

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
 - 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. Program requirements include:

- Twelve hours of core requirements in History
- Eighteen hours of History electives
- Fifteen hours of supporting coursework

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

The major requires completion of HIS 300 Historical Methods which should be scheduled early in the student’s program of study and HIS 498 History Proseminar, to be completed as an exit project during the student’s final semester.

		Semester Hours
Core requirements		
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 (G,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		<hr/> 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, Ethnic Studies, English and American literature, Religious Studies, foreign language courses, or in other related fields as approved by the History faculty advisor.

Optional. Students considering graduate studies upon completion of the baccalaureate degree should prepare themselves with proficiency in a foreign language.

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

History requirements:

- | | |
|--|---|
| 1. Arizona History | 3 |
| 2. U.S. History Survey | 6 |
| HIS 103, 104 The United States <i>or</i> | |
| HIS 303, 304 American Cultural History <i>or</i> | |

	Semester Hours
HIS 305 History of American Systems to 1865 <i>and</i>	
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 a faculty 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 a faculty advisor.

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)
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 81). 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 faculty 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 36 semester hours in mathematics, of which 21 must be upper division.

	Semester Hours
Required lower division courses	15
Choose one computer course	
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

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

*Complete this ASU Main course or transfer equivalent.

21

36

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 Political Science, 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.

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

At least one course from the following

___ 494	Special Topics
___ 499	Individual Instruction (3 semester hours maximum)

Electives

Select 12 hours of electives from the following in consultation with a faculty advisor:

IAS 484	Internship (3 semester hours maximum)
IAS 499	Individual Research or Creative Project
Other approved courses	

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 concentrations:

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

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

IAP 355 Illusion and Vision

IAP 356 Spatial Impressions

IAP 457 Urban Narrative

Select one course from the following:

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

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 in consultation with a faculty advisor 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 433 Directing Workshop	
IAP 442 Movement and Music	
IAP 464 Media and Diversity	
IAP 466 Authoring CD Roms, Advanced	
IAP 467 Acoustic Ecology	
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

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
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 465 Media Technologies and the Arts
IAP 466 Authoring CD ROMS, Advanced
IAP 467 Acoustic Ecology
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
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 465 Media Technologies and the Arts
IAP 466 Authoring CD ROMS, Advanced
IAP 467 Acoustic Ecology
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 Science 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 that 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.

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 32 semester hours of upper division course work in the major (plus BIO 187 and 188 or BIO 181 and 182), as well as a minimum of 19 semester hours of course work in Chemistry, Physics, and Mathematics. A grade of “C” or better is required for all course work taken to fulfill major requirements.

	Semester Hours
Required lower division courses:	
Biology (8 hours)	
BIO 187 General Biology I (SG)	4
BIO 188 General Biology II (SQ)	4
Chemistry (12-17 hours)*	
At least two semesters of inorganic chemistry with lab and at least one semester of organic chemistry with lab.	
Mathematics (3 hours)	
MAT 210 Brief Calculus (MA) <i>or</i> any calculus course	3
Physics (4-8 hours)*	
PHY 101 Introduction to Physics (SQ) <i>or</i>	4
PHY 111 General Physics <i>and</i>	3
PHY 113 General Physics Laboratory (SQ) <i>and</i>	1
PHY 112 General Physics <i>and</i>	3
PHY 114 General Physics Laboratory (SQ)	1

Required upper division courses:

Degree Core Courses	
BIO 340 General Genetics	4
BIO 345 Organic Evolution	3
LSC 300 Modes of Biological Thought (L)	3

**Students who anticipate applying to postbaccalaureate medical or graduate programs should complete two semesters of organic chemistry and the two semester physics option.*

All students will complete one of the following emphases, which require 10-11 semester hours of core courses and a minimum of 12 semester hours from the cluster options and electives course lists.

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

Cell Biology and Physiology emphasis

The Cell Biology and Physiology emphasis is especially appropriate for students who plan careers in any area of medicine, molecular biology, 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
Core courses	
BIO 353 Cell Biology	3
BIO 360 Animal Physiology Lecture <i>and</i>	3
BIO 361 Animal Physiology Laboratory	2
LSC 429 Capstone Course in Cell Biology and Physiology	3

Ecology & Organismal Biology emphasis

The Ecology and Organismal Biology emphasis is intended for students who are interested in all aspects of ecology, evolution, or environmental biology, including applied areas such as conservation, habitat restoration, and environmental assessment. Course work focuses on the emergent properties of biological systems and the interactions of organisms – including humans – with their environments. Courses blend basic and applied areas of biology, combining classroom instruction with field work and first-hand experience in ecological problem-solving.

	Semester Hours
Core courses	
BIO 320 Fundamentals of Ecology	3
BIO 415 Biometry (CS)	4
LSC 439 Capstone Course in Ecology & Organismal Biology	3

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 365	The Human Organism (SG)		4
LSC 469	Capstone Course in Human Biology and Environment		3

Additional Requirements. To complete the requirements for the emphasis area, students will work with a faculty advisor to select a minimum of 12 semester hours from the course lists below:

Cluster Options minimum of 9
(three courses chosen from at least two of the following groups; core courses for the student's chosen emphasis may not fulfill this requirement)

Disciplinary Courses

BCH 361	Principles of Biochemistry (3)
BIO 320	Fundamentals of Ecology (3)
BIO 353	Cell Biology (3)
BIO 360	Animal Physiology Lecture (3) <i>and</i>
BIO 361	Animal Physiology Laboratory (2)
BIO 370	Vertebrate Zoology (4)
BIO 385	Invertebrate Zoology (4)
LSC 365	The Human Organism (4) (SG)
PLB 300	Comparative Plant Diversity (4)

Topics Courses

BIO 351	Developmental Anatomy (3)
BIO 415	Biometry (4) (CS)
BIO 443	Molecular Genetics (3)
LSC 330	Pollution vs. Protection (3) (G)
LSC 342	Hormones and Behavior (3)
LSC 362	The Human Environment (3)
LSC 363	Genes, Race, and Society (3)
LSC 430	Environmental and Human Toxicology (4)
LSC 432	Basic Pharmacology (4)
LSC 434	Marine Ecology (3)

Focus Courses

(no more than one course from this group)	
LSC 350	Premedical Professional Seminar (3)
LSC 450	Premedical Externship (3)
LSC 484	Internship (3)
LSC 494	Special Topics (3)
LSC 499	Individualized Instruction (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>12</u>
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.	

Semester
Hours

The minor consists of 23 hours in the life sciences, including BIO 187 General Biology I and BIO 188 General Biology II (or BIO 181 and 182), 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 187 General Biology I (or BIO 181)
- 2. BIO 188 General Biology II (or BIO 182)
- 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 345 Organic Evolution
- 5. PLB 300 Comparative Plant Diversity
- 6. BIO 370 Vertebrate Zoology *or*
BIO 385 Invertebrate Zoology
- 7. BIO 360 Animal Physiology Lecture
- 8. BCH 361 Principles of Biochemistry *or*
BIO 353 Cell Biology
- 9. LSC 360 The Biology of Human Experience *or*
LSC 362 The Human Environment
- 10. LSC 434 Marine 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

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

ulty 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 Political Science, 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 (SB, C)	3	3
SBS 302	Qualitative Methods	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:		9	9
<i>Identity/Difference</i>			
<i>Power/Knowledge</i>			
<i>Local/Global</i>			
Electives		15	9
Choose courses with prefixes: ASB, FAS, GCU, POL, 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	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		12	12
Choose courses with prefixes: ASB, FAS, GCU, POL, 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."

The minor offers students an interdisciplinary focus across several fields of the Social and Behavioral Sciences, including Sociocultural Anthropology, Geography, Political Science, 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 Political Science

Nature of program

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

The Political Science 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 Political Science 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 Political Science

The minor in Political Science 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 Political Science:

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

Three additional Political Science (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 394 Special Topics, 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	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

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, Political Science, Psychology, and Women's Studies.

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

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, Political Science, 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, C)
 - 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)
 - 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 programs. A certificate in Ethnic Studies is

awarded for successful completion of 21 semester hours, including ETH 300 and 18 semester hours of elective courses from the approved course list.

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 the Religious Studies Director to create a coherent and complete program of study for the minor.

Requirements

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

Select 9 semester hours of Religious Studies electives from the following in consultation with the Director:

Other approved courses

AMS/IAS/WST 484 Internship

AMS/COM/IAS/REL/WST 499 Individual 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 col-

leges 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 March 1 for fall semester and October 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	6-9
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	
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)

selected semesters

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

AMS 316 American Religious Systems (3)

selected semesters

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)

selected semesters

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

AMS 323 Studies in American Art and Architecture (3)

selected semesters

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

AMS 326 Popular Culture (3)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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

AMS 335 American Biography (3)

selected semesters

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)

selected semesters

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

AMS 344 Creative Writing (3)

selected semesters

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

AMS 345 Reporting (3)

selected semesters

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

AMS 346 Editing (3)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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 and spring 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

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

ASB 319 Indigenous Peoples of North America (3)*selected semesters*

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

ASB 340 Migration and Culture (3)*once a year*

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*once a year*

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)***selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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

ART 325 Figure Painting (3)*selected semesters*

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)*selected semesters*

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

ART 414 Advanced Life Drawing (3)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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

Art Auxiliary

ARA 460 Gallery Exhibitions (3)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

Topics may include art of the Southwest.

Astronomy

AST 301 Discovering the Sun and its Planets (3)

fall only

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)

spring only

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)

fall only

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)

spring only

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)

selected semesters

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.

Key to General Studies

Credit Abbreviations

L Literacy and critical inquiry core courses

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, and / or

Biology

BIO 100 The Living World (4)

fall and 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 187 General Biology I (4)

fall only

Biological concepts emphasizing principles and the interplay of structure and function at the organismal, population, and community levels. 3 hours lecture, 3 hours lab. Intended for life sciences, biology, and health-related science majors. Fee or deposit. General studies: SG.

BIO 188 General Biology II (4)

spring only

Biological concepts emphasizing principles and the interplay of structure and function at the molecular, cellular, and organismal levels. 3 hours lecture, 3 hours lab. Fee or deposit. Prerequisite: BIO 187. General studies: SQ

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)

selected semesters

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 320 Fundamentals of Ecology (3)

fall only

Organization, functioning, and development of ecological systems; energy flow; biogeochemical cycling; environmental relations; population dynamics. Prerequisite: BIO 188 (or 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 188 (or 182); an organic chemistry course.

BIO 345 Organic Evolution (3)

fall and spring only

Processes of adaptive change and speciation in sexual populations. Prerequisite: BIO 188 (or 182).

BIO 351 Developmental Anatomy (3)

spring in even years only

General developmental biology (embryology) and comparative structure of organ systems, illustrated mainly by vertebrate examples. Prerequisite: BIO 188 (or 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 188 (or 182); an organic chemistry course.

BIO 360 Animal Physiology Lecture (3)

fall and spring only

Physiological mechanisms of the higher vertebrates. Prerequisites: BIO 188 (or 182); CHM 115; MAT 117 or equivalents.

BIO 361 Animal Physiology Laboratory (2)

fall and spring only

Experimental laboratory studies of physiological mechanisms in animals and model systems. Lab, recitation. Fee or deposit. Prerequisites BIO 188 (or 182), CHM 115, MAT 117. Corequisite: BIO 360.

BIO 370 Vertebrate Zoology (4)

spring in odd years only

Characteristics, classification, evolution, and natural history of the major groups of vertebrate animals. 3 hours lecture, 3 hours lab. Fee or deposit. Prerequisite: BIO 188 (or 182).

BIO 385 Invertebrate Zoology (4)

spring in even years only

Characteristics, life cycles, adaptations, and evolution of invertebrate animals. 3 hours lecture, 3 hours lab. Fee or deposit. Prerequisite: BIO 188 (or 182) or instructor approval.

BIO 386 General Entomology (4)

summer only; selected semesters

Form, activities, and classification of insects. 3 hours lecture, 3 hours lab. Fee or deposit. Prerequisite: BIO 188 (or 182).

BIO 410 Techniques in Wildlife

Conservation Biology (3)

summer only; selected semesters

Field and analytical techniques used in evaluating population structure, viability and environmental impacts. Lecture, lab. Prerequisites: ENG 101 (or 105); BIO 188 (or 182); BIO 320 and 340 recommended. General studies: L.

BIO 415 Biometry (4)

fall only

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)

spring in odd years only

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 465 Neurophysiology (3)

summer only, selected semesters

Detailed treatment of cellular and organismal neurophysiology and nervous system functioning.

Prerequisite: BIO 360/361 or instructor approval.

BIO 471 Ornithology (3)

summer only, selected semesters

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, selected semesters

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, selected semesters

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.

CHM 331 General Organic Chemistry Lecture I (3)

fall only

Chemistry of organic compounds. Prerequisite: CHM 115.

CHM 332 General Organic Chemistry Lecture II (3)

spring only

Continuation of CHM 331. Prerequisite: CHM 331.

CHM 335 General Organic Chemistry Laboratory I (1)

fall only

Microscale organic chemical experiments in separation techniques, synthesis, analysis and identification, and relative reactivity. 4 hours lab. Fee or deposit. Corequisite: CHM 331.

CHM 336 General Organic Chemistry Laboratory II (1)

spring only

Continuation of CHM 335. 4 hours lab. Fee or deposit. Prerequisite: CHM 335. Corequisite: CHM 332.

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)

selected semesters

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

DAN 394 Special Topics (1-4)

selected semesters

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

Dance History

DAH 300 Introduction to Dance (3)

selected semesters

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)

selected semesters

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

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, and / or

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.

ENG 105 Advanced First-Year Composition (3)

selected semesters

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 200 Critical Reading and Writing About Literature (3)

selected semesters

Introduction to the terminology, methods, and objectives of the study of literature, with practice in interpretation and evaluation. Prerequisite: English major or minor; ENG 102 (or 105). General studies: L/HU.

ENG 210 Introduction to Creative Writing (3)

selected semesters

Beginning writing of poetry, fiction, and drama (both stage and screen). Separate sections for each genre. Each genre may be taken once. Prerequisite: ENG 102 (or 105).

ENG 213 Introduction to the Study of Language (3)

selected semesters

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)

fall only

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)

spring only

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)

fall only

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)

spring only

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 305 Classical and Biblical Backgrounds to Literature (3)

selected semesters

Selected readings from the Bible and Greek and Latin literature in translation, emphasizing ideas, forms, and myths related to the development of English literature. 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)

selected semesters

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 (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 337 Major American Novels (3)

selected semesters

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 352 Short Story (3)

once a year

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: HU.

ENG 384 Science Fiction and Fantasy (3)

selected semesters

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)

selected semesters

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)*selected semesters*

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 410 Folklore in Everyday Life (3)*selected semesters*

Focuses on the discipline of Folklore, the theories and methods related to the oral, material, and cultural practices of society. Prerequisite: ENG 102 (or 105). General Studies: L/SB.

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)*selected semesters*

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)*selected semesters*

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 (3)*selected semesters*

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 431 Whitman and Dickinson (3)*selected semesters*

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)*selected semesters*

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

ENG 434 International Postmodern Literature (3)*selected semesters*

Focuses on the international nature of Postmodernist literature. Authors studied may include Rushdie, Garcia Marquez, and Toni Morrison. Prerequisite: ENG 102 (or 105). General studies: HU, G.

ENG 441 Romantic Poetry (3)*selected semesters*

Poetry of Wordsworth, Coleridge, Shelley, Keats, and Byron.

ENG 445 The American Novel, 1900 - 1960 (3)*selected semesters*

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

ENG 446 American Novel since 1960 (3)*selected semesters*

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 449 Medieval Literature (3)*selected semesters*

Medieval English and continental literature in translation, emphasizing cultural and intellectual backgrounds. Prerequisite: ENG 102 (or 105). General Studies: HU.

ENG 450 The British Novel (3)*selected semesters*

A course focusing on the British novel from the 18th century to the present. Prerequisite: ENG 102 (or 105). General Studies: HU.

ENG 451 History of Film (3)*selected semesters*

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

ENG 453 Erotic Writing in the Renaissance (3)*selected semesters*

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.

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applications core coursesHU Humanities and fine arts
core coursesSB Social and behavioral
sciences core coursesSG Natural sciences-
general core coursesSQ Natural sciences-
quantitative core coursesC Cultural diversity in the
United States courses

G Global awareness courses

H Historical awareness courses
, and
/ or

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

A course focusing on the representation of gender in literature. Prerequisite: ENG 102 (or 105). General studies: L/HU.

ENG 455 Contemporary Women Writers (3)*once a year*

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)*once a year*

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

ENG 464 American Indian Literature (3)*selected semesters*

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

ENG 466 Chicano Literature (3)*selected semesters*

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)*once a year*

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 468 Africana Literature (3)*selected semesters*

Focuses on the literature of the African Diaspora, including texts from the Caribbean, the Americas, and Africa. Prerequisite: ENG 102 (or 105). General Studies: HU, G.

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

A selection of comedies, histories, and tragedies. Prerequisite: ENG 102 (or 105).

ENG 475 Milton (3)*selected semesters*

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 478 Modernist Literature (3)*selected semesters*

Focuses on the international nature of Modernist literature. Authors studied may include Proust, Kafka, Joyce, and Woolf. Prerequisite: ENG 102 (or 105). General Studies: HU.

ENG 494 Special Topics (3)*selected semesters*

Topics may include writing practicum.

Ethnic Studies

ETH 100 Introduction to Ethnic Studies (3)*fall and spring 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 and spring 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.

FAS 332 Human Sexuality (3)*selected semesters*

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)

selected semesters

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

GCU 361 Urban Geography (3)

selected semesters

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)

spring 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)

spring 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 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.

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, and
/ or

HIS 320 19th Century West (3)*selected semesters*

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)*selected semesters*

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.

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)
selected semesters

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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

once a year

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)

selected semesters

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)

once a year

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)

fall 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.

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)

once a year

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)

selected semesters

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.

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/ or

IAS 407 Environmental Philosophy and Policy (3)*once a year*

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.

IAS 411 History and Philosophy of Mathematics (3)*once a year*

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)*fall 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 and spring only*

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 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 and spring only*

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)***fall and 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)*fall only*

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)*spring only*

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)*selected semesters*

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)*selected semesters*

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

IAP 304 The Avant-Garde to WW II (3)*selected semesters*

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)*fall in even years only*

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 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)*selected semesters*

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)*spring only*

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)*selected semesters*

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)*selected semesters*

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 and spring 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)*selected semesters*

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 and spring 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 in even years 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)*selected semesters*

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

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IAP 365 Authoring CD ROMS (3)*spring 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 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)*selected semesters*

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)*selected semesters*

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 in even years 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 in even years only*

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

IAP 433 Directing Workshop (3)*selected semesters*

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 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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

Extention 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)*fall in odd years 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)*selected semesters*

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 in even years 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)*selected semesters*

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 467 Acoustic Ecology (3)*spring in even years only*

Investigations into the relationship between Audio Art & Ecology, covering field recording, oral histories, digital editing and designing audio website/data bases. Prerequisites: IAP 361; admission is also by consent of instructor for students in Life Sciences and Communication Studies.

IAP 471 Language, Culture, and Performance (3)

selected semesters

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)

spring in even 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.

IAP 473 Aesthetic Research (3)

fall in odd years 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)

selected semesters

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

spring only

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

LSC 342 Hormones and Behavior (3)

selected semesters

An examination of the short-term and long-term effects of hormones on the behavior of animals, including humans. Prerequisite: BIO 188 (or 182).

LSC 346 Zoo Biology (3)

selected semesters

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 188 (or 182).

LSC 361 Human Sexual Biology (3)

selected semesters

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.

LSC 362 The Human Environment (3)

selected semesters

Evolution of humans' physiological, ecological, and behavioral interaction with their environment.

LSC 363 Genes, Race, and Society (3)

fall only

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. Fee or deposit. General studies: SG.

LSC 425 Medical Epidemiology (3)

summer only; selected semesters

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)*spring in even years only*

Lecture/fieldwork course investigating toxic substances in the environment and their effect on the health of organisms, including humans. Prerequisite: BIO 188 (or 182), CHM 113, 115; or equivalents.

LSC 432 Basic Pharmacology (4)*spring in odd 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 360/361 or instructor approval.

LSC 434 Marine Ecology (3)*spring in odd years only*

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

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)*selected semesters*

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)

fall and 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 and spring 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 and spring 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)

selected semesters

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)

selected semesters

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)

selected semesters

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)

once a year

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)

selected semesters

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)

once a year

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.

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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)*summer only; selected semesters*

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, selected semesters*

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) and MIC 205 (or 220) or instructor approval.

Music

MUS 340 Listening to Music (3)*selected semesters*

Major periods, composers, and compositions in the history of music. General studies: HU, H.

MUS 347 Music in America (3)*selected semesters*

Current styles of American music including jazz, popular, and folk music. General studies: HU.

MUS 354 Popular Music (3)*selected semesters*

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)*selected semesters*

Growth and development of American music. General studies: HU.

MUS 356 Survey of the Musical Theatre (3)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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 and spring only*

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)*once a year*

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.

Physical Science

PHS 110 Fundamentals of Physical Science (4)*selected semesters*

One-semester survey of the principles of physics and chemistry. Understanding of elementary algebra is presumed. 3 hours lecture, 2 hours lab. General studies: SQ.

Physics

PHY 101 Introduction to Physics (4)

selected semesters

Emphasizes applications of physics to life in the modern world. Understanding of elementary algebra is presumed. 3 hours lecture, 1 hour recitation, 2 hours lab. General studies: SQ.

PHY 111 General Physics (3)

fall only

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)

spring only

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 PHY 114).

PHY 113 General Physics Laboratory (1)

fall only

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)

spring only

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)

spring in odd years only

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 188 (or 182) or equivalent.

Political Science

POL 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.

POL 110 Government and Politics (3)

fall and spring only

Major institutions of modern government and processes of individual and group political activity, with emphasis on the American experience. Meets the federal government requirement for teacher certification. Not open to students with credit for POL 310. General studies: SB.

POL 150 Comparative Government (3)

selected semesters

Political institutions and processes in selected foreign countries, including origins, strengths, and weaknesses of contemporary political systems and political development. General studies: SB, G.

POL 160 Global Politics (3)

spring only

The nature of contemporary world politics through the study of both general theoretical topics and specific geographical areas. Not open to students with credit for POL 360. General studies: SB, G.

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 POL 110. 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.

Key to General Studies

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MA Mathematics core courses

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H Historical awareness courses
, and
/ or

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)*selected semesters*

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 POL 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 POL 160. 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.

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, C.

POL 434 Media and Politics (3)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)

selected semesters

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)

selected semesters

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)

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)

selected semesters

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)

once a year

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.

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, and / or

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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.

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 473 Psychology and Politics of Child Maltreatment (3)*spring only*

Examines psychological literature on child maltreatment in the context of development. Explores interactions between professionals responding to maltreatment. Prerequisites: PGS 101, 341; PSY 290. General studies: SB.

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)*selected semesters*

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)*selected semesters*

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)*selected semesters*

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)*fall and 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)

selected semesters

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 201 Religion and the Modern World (3)

selected semesters

An introduction to the nature and role of religious beliefs and practices in shaping the lives of individuals and societies, with particular attention to the modern world. Prerequisite: ENG 102 (or 105). General studies: L/HU.

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)

selected semesters

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)

fall and spring only

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: 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.

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.

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SBS 404 Social Statistics II: Multivariate Analysis (3)*selected semesters*

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)*fall and spring only*

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 461 Program Evaluation and Policy Research (3)*spring only*

Examines design, data collection/analysis, and political/ethical issues in planning and evaluating social programs and policies in community organizations. Prerequisite: a research course in social or behavioral sciences, or instructor approval.

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.

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)*selected semesters*

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)*once a year*

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)*selected semesters*

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)*selected semesters*

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 and spring 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)*once a year*

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)*once a year*

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)*selected semesters*

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.

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G Global awareness courses

H Historical awareness courses
, and
/ or

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)

selected semesters

Accelerated program alternative to SPA 101 and 102 sequence. Functional approach to needs of international professions.

SPA 201 Intermediate Spanish (4)

fall only

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)

spring only

See SPA 201. Prerequisite: SPA 201 or equivalent. General studies: G.

SPA 207 Spanish for International Professions II (8)

selected semesters

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)

fall only

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)

spring only

See SPA 313. Prerequisite: SPA 202 or equivalent. General studies: G.

SPA 325 Introduction to Hispanic Literature (3)

selected semesters

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.

SPA 412 Advanced Conversation and Composition (3)

selected semesters

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)

selected semesters

Intensive analysis of the Spanish language. Required of teaching majors. Prerequisite: SPA 314 or instructor approval.

SPA 425 Spanish Literature (3)

selected semesters

Survey of Spanish literature from its beginning to the present. Prerequisite: SPA 325. General studies: HU.

SPA 426 Spanish Literature (3)

selected semesters

Survey of Spanish literature from 1700 to the present. Prerequisite: SPA 325. General studies: HU.

SPA 427 Spanish-American Literature (3)

selected semesters

Survey of major works, figures, and movements from Colonial period to 1880. Prerequisite: SPA 325.

SPA 428 Spanish-American Literature (3)

selected semesters

Survey of major works, figures, and movements from 1880 to the present. Prerequisite: SPA 325.

SPA 464 Mexican American Literature (3)

selected semesters

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)

selected semesters

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)

once a year

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)

selected semesters

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)

selected semesters

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)

selected semesters

Topics may include film and society, women in film, experimental film.

Theatre Performance and Production

THP 294 Special Topics (1-4)

selected semesters

Topics such as musical theatre (history/survey).

THP 301 Theatre Production (1-4)

selected semesters

Participation in university theatre productions. May be repeated for credit. Prerequisite: written instructor approval.

THP 394 Special Topics (3)

selected semesters

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)

selected semesters

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.

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.

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

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.

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)*selected semesters*

Examines the role of women in science, the construction of gender in science, and the impact of science on women. 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)*fall only*

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.

WST 475 Women of the Diaspora Across Cultures (3)*selected semesters*

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)*selected semesters*

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, spring and summer 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 55-56 for omnibus courses that may be offered.