
New College of Interdisciplinary Arts and Sciences

www.west.asu.edu/newcollege

Emily F. Cutrer, PhD, Dean

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Department of Mathematical Sciences and Applied Computing
Department of Social and Behavioral Sciences
Ethnic Studies Program
Religious Studies Minor
Women's Studies Program

DEGREE PROGRAMS

See the "New College of Interdisciplinary Arts and Sciences Baccalaureate Degrees and Majors" table, page 697. The faculty of the New College of Interdisciplinary Arts and Sciences offer a 30-semester-hour Master of Arts degree in Interdisciplinary Studies. For more information, see the *Graduate Catalog*.

MINORS AND CERTIFICATES

See the "West Campus Minors" table, page 654, and the "West Campus Certificates" table, page 655.

PURPOSE

The New College of Interdisciplinary Arts and Sciences offers academic programs that prepare students to take their places as active participants in a rapidly changing social, political, and natural environment. These programs seek to provide students with the skills necessary for independent thinking and effective expression; an understanding and appreciation of diverse cultures past and present; sensitivity to the aesthetic dimensions of human endeavor and the natural environment; and, an appreciation and understanding of scientific perspectives and methods as tools for understanding nature and society. The college's integrating principle or focus is social concern and community engagement.

The college has built a blend of interdisciplinary, integrative, and disciplinary programming that transcends academic boundaries while providing much of the general studies for the campus. The college's teaching and research are guided by a linkage of theory and practice, engaging the local community through service learning activities, internships, and arts programming.

ORGANIZATION

The New College of Interdisciplinary Arts and Sciences is organized into six interdisciplinary departments and three academic programs:

- Department of Integrated Natural Sciences
- Department of Integrative Studies
- Department of Interdisciplinary Arts and Performance
- Department of Language, Cultures, and History

Admission

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

Degree Requirements

All candidates for graduation in the BA and BS degree curricula are required to present at least 120 semester hours, of which at least 50 semester 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 that 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

New College of Interdisciplinary Arts and Sciences Baccalaureate Degrees and Majors

Major	Degree	Concentration*	Administered By
American Studies	BA	—	Department of Language, Cultures, and History
Applied Computing	BS	Database systems, network and distributed processing, or digital media and graphic design	Department of Mathematical Sciences and Applied Computing
Applied Science	BAS	Any minor available at the West campus or individualized concentration	Department of Integrative Studies
English	BA	—	Department of Language, Cultures, and History
Ethnicity, Race, and First Nations Studies	BA	—	Ethnic Studies Program
History	BA	—	Department of Language, Cultures, and History
Integrative Studies	BA	Any minor available at the West campus or individualized concentration	Department of Integrative Studies
Interdisciplinary Arts and Performance	BA	—	Department of Interdisciplinary Arts and Performance
Life Sciences	BS	—	Department of Integrated Natural Sciences
Political Science	BA, BS	—	Department of Social and Behavioral Sciences
Psychology	BA, BS	—	Department of Social and Behavioral Sciences
Social and Behavioral Sciences	BA, BS	—	Department of Social and Behavioral Sciences
Sociology	BA, BS	—	Department of Social and Behavioral Sciences
Spanish	BA	—	Department of Language, Cultures, and History
Women’s Studies	BA, BS	—	Women’s Studies Program

* If a major offers concentrations, one must be selected unless noted as *optional*.

specified below with a grade of “C” (2.00) or higher 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.

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;
2. completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV;
3. completion of upper-division course(s) taught in a foreign language, taken in the United States or the relevant country;
4. completion of six semester hours of upper-division courses that have a Global Awareness (G) or Cultural Diversity in the U.S. (C) designation, in addition to the

courses used to meet the University General Studies requirements; or

5. completion of two sequential semesters of course work in a current computer language. Contact the college Advising Office for information on applicable course work.

Mathematics. MAT 142 or any MAT course for which MAT 117 or a higher level MAT course is a prerequisite.

Major Requirements

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

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

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See “General Studies,” page 93.

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 semester hours in the major must be taken in campus resident credit.

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” (2.00). Normally a “Y” (satisfactory) grade needs confirmation that it is equivalent to a “C” (2.00) or higher.

General Electives

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

Ethnic Studies Program

www.west.asu.edu/ethnic
 602/543-6007
 FAB N205A

Gloria H. Cuádras, Director

ETHNICITY, RACE, AND FIRST NATIONS STUDIES—BA

Nature of the Program

The purpose of the Bachelor of Arts degree in Ethnicity, Race, and First Nations Studies is to provide an integrated comparative and comprehensive approach to the study of diversity among ethnic and racial groups and first nations. Most traditional ethnic studies programs offer degrees based on one major ethnic group, whereas the approach we propose fills a void by emphasizing interdisciplinary and comparative approaches to the study of ethnic and racial groups and first nations in one degree program.

Course work in the Ethnicity, Race, and First Nations Studies program incorporates a framework that fosters the study of ethnicity, race, and first nations across the curriculum. Both theoretical and applied perspectives are embedded in a curriculum that addresses how ethnicity, race, and first nations shape identities, literacies, public policies, and communities in local and transnational U.S. contexts.

Students will identify a career area that will enable them to integrate their knowledge in ethnicity, race, and first nations with specific course work tied to their career and advanced educational goals. The incorporation of research methods and information competency places graduates at a significant advantage in acquiring jobs in the state and local labor markets. Students participate in high quality community experiences where they apply skills and knowledge attained in the classroom to ethnically diverse public and private work settings.

Student Outcomes

The Ethnicity, Race, and First Nations Studies program prepares graduates with the following knowledge and skills:

1. an interdisciplinary and comparative understanding of ethnicity, race, and first nations in the U.S.;
2. knowledge of the various theoretical frameworks employed in the study of ethnicity, race, and first nations;
3. an understanding of how ethnicity, race, and first nations shape identities;
4. an understanding of how ethnicity, race, and first nations shape literacies and information competencies;
5. an understanding of how ethnicity, race, and first nations shape communities and public policies;
6. an understanding of how ethnicity, race, and first nations shape orientations to issues spanning local and transnational U.S. contexts;
7. effective skills in technological literacy and information competency;
8. effective critical writing;
9. an ability to marshal evidence and argue a central thesis effectively in written assignments;
10. effective oral communication; and
11. an ability to apply knowledge and understanding of ethnicity, race, and first nations to real world problems and issues.

Career Outlook

Rapid socioeconomic change, changing demographics, increased global competition, and rapid cultural diversification have created an increasing need for workers and citizens knowledgeable about diverse ethnic and racial groups. Graduates of the undergraduate program in Ethnicity, Race and First Nations Studies will be positioned to enter the workforce and function effectively and critically as informed citizens in a diverse and complex society.

Major Requirements

The degree program requires 45 semester hours. The major consists of

1. 12 semester hours of core requirements,
2. 24 semester hours of cluster requirements, and
3. nine semester hours in a career-focused area.

Core Requirements

ENG 317	Cross-Cultural Writing <i>L/HU, G</i>	3
ETH 300	Principles of Ethnic Studies <i>C</i>	3
ETH 310	Research Methods in Ethnic, Racial, and First Nations Populations <i>SB</i>	3
ETH 484	Ethnic Studies Internship	3

Cluster Requirements¹

Choose two of the following for identity matters credit		6
AMS 330	Introduction to American Lives <i>HU</i> (3)	
ENG 476	Folklore in Everyday Life <i>HU</i> (3)	
ETH 100	Introduction to Ethnic Studies <i>SB, C</i> (3)	
IAS 220	Psychology, Multicultural Narratives, and Religion <i>L/HU, C</i> (3)	
IAS 420	Multicultural Autobiographies <i>L/HU, C</i> (3) or ENG 420 Multicultural Autobiographies <i>L/HU, C</i> (3)	

- SBS 301 Cultural Diversity *L/SB, C* (3)
- SBS 410 TIID: Introduction to Asian American Experiences (3)
- WST 370 Chronicling Women’s Lives *HU, C* (3)
- WST 473 Latina/Chicana Representation *SB, C* (3)
- Other approved course (3)
- Choose two of the following for literacy matters credit6
- ENG 353 African American Literature: Beginnings through the Harlem Renaissance *L/HU, C* (3)
- ENG 354 African American Literature: Harlem Renaissance to the Present *L/HU, C* (3)
- ENG 359 American Indian Literature *L/HU, C* (3)
- ENG 363 Chicano Literature *HU, C* (3)
- ENG 460 Ethnic Women Writers *L/HU, C* (3)
or WST 467 Ethnic Women Writers *L/HU, C* (3)
- ENG 462 Africana Literature *HU, G* (3)
- ENG 463 African-American Literature *HU, C* (3)
- IAP 464 Media and Diversity (3)
- Other approved course (3)
- Choose two of the following for community and policy matters credit6
- AMS 327 Regional Cultures (3)
- AMS 428 Chicano Cultures in the Southwest *SB* (3)
- ASB 442 Urban Anthropology *SB* (3)
- HIS 331 American Indians (3)
- IAS 407 Environmental Philosophy and Policy *L/HU* (3)
or PHI 407 Environmental Philosophy and Policy *L/HU* (3)
- POL 320 Latino Politics *SB, C* (3)
- SOC 370 Racial and Ethnic Minorities *SB, C* (3)
- WST 300 Women in Contemporary Society *SB, C* (3)
- WST 350 Race, Class, and Gender *SB, C* (3)
- Other approved course (3)
- Choose two of the following for transitional matters credit6
- ASB 340 Migration and Culture *SB, G* (3)
- ASB 440 Women in the Global Factory *SB, G* (3)
- HIS 454 History of Genocide *G, H* (3)
- HIS 462 The African Diaspora *G, H* (3)
- HIS 465 Origins of Racism *G, H* (3)
- POL 430 Race and Politics in the Americas *SB, C* (3)
- SOC 324 Work and the Workplace *SB, H* (3)
- WST 390 Women and World Religions *L/SB, G* (3)
- WST 475 Women of the Diaspora Across Cultures *HU, G* (3)
- Other approved course (3)

Career Focus

- Choose courses from the following areas².....9
- Arts and music
- Business
- Education and teaching
- Health
- Law
- Policy and public sector
- Spanish
- Science and technology
- Social entrepreneurship
- Program total.....45

¹ Select two courses from each cluster; one course from each cluster may be lower-division for a maximum of 12 semester hours of lower-division courses.
² These courses must be chosen in consultation with a faculty advisor.

Minor and Certificate in Ethnic Studies

Nature of the Programs. The minor and certificate in Ethnic Studies explore the study of ethnicity within the

United States. The programs are designed to foster direct linkages between the university and community through student participation in community-based internships. 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 U.S.;
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 and certificate are 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 and certificate programs 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 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” (2.00).

Required Courses

ETH 300 Principles of Ethnic Studies <i>C</i>	3
ETH 484 Ethnic Studies Internship	3
Electives*	15
Total	21

* These courses must be chosen from the approved ethnic studies course list in consultation with the ethnic studies advisor.

L literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/ quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See “General Studies,” page 93.

Certificate in Ethnic Studies

The Certificate Program is recommended for graduate students, nondegree 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.

ETHNIC STUDIES (ETH)

W ETH 100 Introduction to Ethnic Studies. (3)

fall and spring

Undertakes an introductory comparative analysis of ethnic groups to understand cultural diversity within the United States.

General Studies: SB, C

W ETH 300 Principles of Ethnic Studies. (3)

fall and spring

Familiarizes students with a range of analytical and theoretical frameworks in the field of ethnic studies.

General Studies: C

W ETH 310 Research Methods in Ethnic, Racial, and First Nations Populations. (3)

spring

Examines analytical tools and methodological approaches (ethnography, oral histories, digital-storytelling, information literacy) to study ethnic, racial, and first nations populations.

General Studies: SB

W ETH 484 Ethnic Studies Internship. (3)

fall, spring, summer

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

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

ral Sciences curriculum. The department is heavily invested in experiential learning and all required core courses have laboratories. Because of this focus on hands-on learning, students will find that they will be competitive in their career aspirations, whether it is in the health field, in an environmental discipline, or pursuing a graduate degree. Students will also find that by learning in an integrative environment that emphasizes the connectedness between disciplines, they will possess a better understanding of larger scientific concepts and will be able to view these concepts from multiple perspectives. The department emphasizes doing as a way of learning and supports undergraduates in conducting independent research under the mentorship of faculty members or in internships outside of the department. Students are encouraged to consider both of these opportunities.

Path to Health Field Careers

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, quality of letters of recommendation, and hands-on experience. All medical colleges in the United States have extensive science prerequisites, including lower-division courses in biology, chemistry, and physics. Many medical colleges have additional course requirements, often including courses in communication, math, or psychology as well as upper-division biochemistry or biology courses. The Health Professions Advisory Committee in the Integrated Natural Science department aids students in preparing for a career in the health field by informing them of the particular entrance requirements of each school. In addition, the committee guides students in the best strategies to strengthen their application and prepare for national exams. Students who are considering a health-related career that requires professional training are strongly urged to consult with the chair of the Health Professions Advisory Committee as soon as they enter the university.

Information on the committee and on applying to health professional schools can be found at the Integrated Natural Sciences Web site at www.west.asu.edu/dins.

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. Graduates 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, and conservation officer. Participation in internships in government agencies or private companies as an undergraduate will provide the student with experience valuable to

Department of Integrated Natural Sciences

www.west.asu.edu/dins

602/543-6050

CLCC 217

Douglas Dennis, Chair

Professors: Dennis, Sullivan

Associate Professor: Deutch

Assistant Professors: Boorse, Harrington, Johnson, Jurutka, Marshall, Morse, Solis

The Department of Integrated Natural Sciences offers an interdisciplinary Bachelor of Science degree and minor in Life Sciences. In addition, the department offers a strong prehealth/premedical curriculum for students who intend to pursue a career in the health professions.

LIFE SCIENCES—BS

Nature of Program

The intricate connections between biology, chemistry, geology, and physics form the basis of the Integrated Natu-

potential employers. The Bachelor of Science in Life Sciences degree is appropriate for students who wish to enter master's and doctoral programs in basic or applied areas of biology.

Special Grading Options

The Department of Integrated Natural Sciences grades internships (484), pro-seminars (498), and individualized instruction (499) on a satisfactory/fail basis. Students who successfully complete these experiences receive a "Y" grade. Such grades are acceptable for meeting program requirements, but these grades are not computed in the GPA.

Major Requirements

The Bachelor of Science in Life Sciences consists of 20 semester hours of core courses, 18 semester hours of distribution courses, and 32 to 33 semester hours of cognate courses. The cognate courses are integral for the understanding of biology, but are not biology courses. The core courses provide a firm foundation for further study in the discipline, while the distribution courses ensure that students maintain breadth in their upper-division studies.

A grade of "C" or higher is required for all course work taken to fulfill major requirements.

Core Courses

BIO 187 General Biology I <i>SG</i>	4
BIO 188 General Biology II <i>SQ</i>	4
LSC 320 Fundamentals of Ecology.....	3
LSC 322 Fundamentals of Ecology Laboratory.....	1
LSC 347 Fundamentals of Genetics.....	3
LSC 348 Fundamentals of Genetics Laboratory.....	1
LSC 353 Cell Biology.....	3
LSC 355 Cell Biology Laboratory.....	1

Cognate Courses

CHM 113 General Chemistry <i>SQ</i>	4
CHM 115 General Chemistry with Qualitative Analysis <i>SQ</i>	5
CHM 331 General Organic Chemistry Lecture I.....	3
CHM 335 General Organic Chemistry Laboratory I.....	1
CHM 332 General Organic Chemistry Lecture II.....	3
CHM 336 General Organic Chemistry Laboratory II.....	1
PHY 111 General Physics <i>SQ</i> ¹	3
PHY 113 General Physics Laboratory <i>SQ</i> ¹	1
PHY 112 General Physics <i>SQ</i> ²	3
PHY 114 General Physics Laboratory <i>SQ</i> ²	1
Choose one of the following combinations.....	7-8
MAT 270 Calculus with Analytic Geometry I <i>MA</i> (4)	
MAT 271 Calculus with Analytic Geometry II <i>MA</i> (4)	
--- or ---	
MAT 210 Brief Calculus <i>MA</i> (3)	
LSC 415 Biometry <i>CS</i> (4)	

¹ Both PHY 111 and 113 must be taken to secure *SQ* credit.
² Both PHY 112 and 114 must be taken to secure *SQ* credit.

Distribution Courses. Students must take at least 18 semester hours from these courses. This includes one course from each of the following groups: cellular, molecular, and physiological biology, organismal biology, and integrative systems ecology. No more than six semester hours of internship, externship, pro-seminar, or individualized instruction may count toward the major (LSC 350, 450, 484, 498, or 499).

Cellular, Molecular, and Physiological Biology

LSC 308 Plant Physiology.....	4
LSC 358 Animal Physiology.....	3
LSC 359 Animal Physiology Laboratory.....	1
LSC 366 Principles of Biochemistry.....	3
LSC 367 Elementary Biochemistry Laboratory.....	1
LSC 432 Basic Pharmacology.....	3
LSC 443 Molecular Genetics.....	3

Organismal Biology

LSC 309 Flora of Arizona.....	4
LSC 370 Vertebrate Zoology.....	4
LSC 385 Invertebrate Zoology.....	4
LSC 444 Fundamentals of Microbiology.....	3
LSC 445 Fundamentals of Microbiology Laboratory.....	1
LSC 473 Ichthyology <i>L</i>	3
LSC 474 Herpetology.....	3

Integrative Systems Ecology

LSC 307 Comparative Plant Diversity.....	4
LSC 345 Organic Evolution.....	3
LSC 408 Population Biology.....	3
LSC 410 Techniques in Wildlife Conservation Biology <i>L</i>	3
LSC 434 Marine Ecology.....	3

Electives

LSC 350 Premedical Professional Seminar.....	3
LSC 415 Biometry <i>CS</i> *.....	4
LSC 450 Premedical Externship.....	3
LSC 484 Internship.....	1-6
LSC 489 Capstone in Integrated Natural Sciences.....	1
LSC 494 Special Topics.....	1-3
LSC 498 Pro-Seminar.....	1-3
LSC 499 Individualized Instruction.....	1-6
Program total.....	70-71

* BS students taking Biometry for the mathematics cognate requirement cannot also count it as an elective toward the major.

Minor in Life Sciences

A minor in Life Sciences can be a valuable asset particularly when paired with an appropriate major. For instance, a Biology minor paired with a Political Science major would provide a good background for someone who wanted to practice environmental law.

Minor Requirements

Required Courses

BIO 187 General Biology I <i>SG</i>	4
BIO 188 General Biology II <i>SQ</i>	4
CHM 113 General Chemistry <i>SQ</i>	4
CHM 115 General Chemistry with Qualitative Analysis <i>SQ</i>	5
LSC 320 Fundamentals of Ecology.....	3
LSC 322 Fundamentals of Ecology Laboratory.....	1
LSC 347 Fundamentals of Genetics.....	3
LSC 348 Fundamentals of Genetics Laboratory.....	1
LSC 353 Cell Biology.....	3
LSC 355 Cell Biology Laboratory.....	1
Total.....	29

L literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/ quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SQ* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See "General Studies," page 93.

NEW COLLEGE OF INTERDISCIPLINARY ARTS AND SCIENCES

BIOLOGY (BIO)

For more BIO courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W BIO 100 The Living World. (4) *fall and spring*

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

W BIO 187 General Biology I. (4) *fall*

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

W BIO 188 General Biology II. (4) *spring*

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. Prerequisite: BIO 187.
General Studies: SQ

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

CHEMISTRY (CHM)

For more CHM courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W CHM 101 Introductory Chemistry. (4) *spring*

Elements of general chemistry. Designed for nonmajors. Credit is allowed for only CHM 101 or 107. 3 hours lecture, 3 hours lab. Fee.
General Studies: SQ

W CHM 113 General Chemistry. (4) *fall*

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

W CHM 115 General Chemistry with Qualitative Analysis. (5) *spring*

Continuation of CHM 113. Equilibrium theory; chemistry of metals, nonmetals, and metalloids; introduction to organic chemistry. Lab includes qualitative analysis. Credit is allowed for only CHM 115 or 116 or 118. 3 hours lecture, 2 hours discussion, 4 hours lab. Fee. Prerequisite: CHM 113 or 2 years of high school chemistry.
General Studies: SQ

W CHM 331 General Organic Chemistry Lecture I. (3) *fall*

Chemistry of organic compounds. Prerequisite: CHM 115.

W CHM 332 General Organic Chemistry Lecture II. (3) *spring*

Continuation of CHM 331. Prerequisite: CHM 331.

W CHM 335 General Organic Chemistry Laboratory I. (1) *fall*

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

W CHM 336 General Organic Chemistry Laboratory II. (1) *spring*

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

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

GEOLOGICAL SCIENCES (GLG)

For more GLG courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W GLG 110 Geological Disasters and the Environment. (3) *spring*

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)

W GLG 111 Geological Disasters and the Environment Laboratory. (1) *spring*

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

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

LIFE SCIENCES (LSC)

W LSC 300 Modes of Biological Thought. (3) *selected semesters*

Involves students in the process of biological discovery to examine how we identify truth in biological science. Prerequisites: BIO 188; ENG 101 (or 105).
General Studies: L

W LSC 301 Life Sciences: History and Method. (4) *selected semesters*

Integrates philosophy, history, and methods of the life sciences. Includes issue of under representation of minorities in science. Lecture, lab.
General Studies: SG

W LSC 307 Comparative Plant Diversity. (4) *spring*

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. Prerequisites: ENG 101 (or 105); BIO 100 (or 188 or its equivalent).

W LSC 308 Plant Physiology. (4) *fall*

Concepts of plant function: carbon metabolism, energy acquisition, regulation of growth and development, stress responses, and water and nutrient uptake. 3 hours lecture; 3 hours lab. Fee. Prerequisite: LSC 353.

W LSC 309 The Flora of Arizona. (4) *spring*

Principles of taxonomy; identification of Arizona plants. 2 hours lecture, 6 hours lab. Fee. Prerequisites: BIO 187, 188.

W LSC 310 Natural History of Arizona. (3) *fall and spring*

Plant and animal communities of Arizona. Cannot be used for major credit in the biological sciences.
General Studies: SG (if credit also earned in LSC 311)

W LSC 311 Field Natural History. (1) *fall and spring*

Organisms and their natural environment. Cannot be used for major credit in the biological sciences. Lab, weekly field trips, field project. Fee. Pre- or corequisite: LSC 310.
General Studies: SG (if credit also earned in LSC 310)

W LSC 320 Fundamentals of Ecology. (3) *fall*

Organization, functioning, and development of ecological systems; energy flow; biogeochemical cycling; environmental relations; population dynamics. Prerequisite: BIO 188 or instructor approval.

W LSC 322 Fundamentals of Ecology Laboratory. (1) *fall*

Investigational field course on fundamental concepts in ecology. 3 hours lab. Fee. Prerequisite: BIO 188; CHM 115. Corequisite: LSC 320.

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

spring

Compares the economic costs and global consequences of permitting versus preventing pollution.

General Studies: G

W LSC 342 Hormones and Behavior. (3)

selected semesters

Examines the short-term and long-term effects of hormones on the behavior of animals, including humans. Prerequisite: BIO 188.

W LSC 345 Organic Evolution. (3)

selected semesters

Processes of adaptive change and speciation in sexual populations. Prerequisite: BIO 188.

W LSC 347 Fundamentals of Genetics. (3)

spring

Science of genetics, gene flow, and genetic engineering in humans and other organisms. Prerequisites: BIO 187, 188; CHM 113, 115.

W LSC 348 Fundamentals of Genetics Laboratory. (1)

spring

Investigational lab using modern molecular techniques to analyze various genetic phenomena. 3 hours lab. Fee. Corequisite: LSC 347.

W LSC 350 Premedical Professional Seminar. (3)

fall and spring

An opportunity for students who anticipate a career in any area of medicine to explore the realities of the field. Prerequisites: LSC 353, 347; instructor approval.

W LSC 351 Developmental Anatomy. (3)

selected semesters

General developmental biology (embryology) and comparative structure of organ systems, illustrated mainly by vertebrate examples. Prerequisite: BIO 188.

W LSC 353 Cell Biology. (3)

fall

Surveys major topics in cell biology, including structural, biochemical, and molecular aspects of cell function. Prerequisite: BIO 187, 188; CHM 113, 115.

W LSC 355 Cell Biology Laboratory. (1)

fall

Investigational lab using modern molecular and cellular techniques to analyze molecular, biochemical, and anatomical traits of cells. 3 hours lab. Fee. Corequisite: LSC 353.

W LSC 358 Animal Physiology Lecture. (3)

fall and spring

Physiological mechanisms of the higher vertebrates. Prerequisites: BIO 188; CHM 115; MAT 117.

W LSC 359 Animal Physiology Laboratory. (1)

fall and spring

Investigative lab experience using animals (including humans) and models. 3 hours lab. Fee. Prerequisites BIO 187, 188; CHM 115; MAT 117. Corequisite: LSC 358.

W LSC 360 The Biology of Human Experience. (3)

selected semesters

Introduces the evolutionary origins and characteristics of humans as they are reflected in morphology, physiology, ecology, and behavior. Prerequisite: BIO 188.

W 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.

W LSC 362 The Human Environment. (3)

selected semesters

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

W LSC 363 Genes, Race, Gender, and Society. (3)

selected semesters

Examines biological events and theories on race and gender and their interface with societal views. Prerequisites: BIO 187, 188, 340 (LSC 347).

W LSC 365 The Human Organism. (4)

fall

Analyzes human anatomy, physiology, and behavior in an ecological and evolutionary context with the methods of comparative biology. 3 hours lecture; 3 hours lab. Fee.

General Studies: SG

W LSC 366 Principles of Biochemistry. (3)

fall and spring

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. Prerequisite: an organic chemistry course.

W LSC 367 Elementary Biochemistry Laboratory. (1)

fall and spring

Quantitative analysis of constituents of biological systems, enzyme assays, protein purification, and metabolic studies. 3 hours lab. Fee. Corequisite: LSC 366.

W LSC 370 Vertebrate Zoology. (4)

spring

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

W LSC 380 Medical Parasitology. (3)

selected semesters

Parasitic diseases of humans, including life cycle events and clinical manifestations. Prerequisite: BIO 385 or LSC 353 or instructor approval.

W LSC 385 Invertebrate Zoology. (4)

selected semesters

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

W LSC 408 Population Biology. (3)

spring

Theoretical and applied aspects of distribution and abundance, population regulation, genetic flow, and interactions among populations, including humans. Prerequisites: LSC 320.

W LSC 410 Techniques in Wildlife Conservation Biology. (3)

selected semesters

Field and analytical techniques used in evaluating population structure, viability and environmental impacts. Lecture, lab. Fee. Prerequisites: BIO 188; ENG 101 (or 105). LSC 320, 347 recommended.

General Studies: L

W LSC 415 Biometry. (4)

fall

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.

General Studies: CS

W LSC 422 Introductory Immunology. (3)

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); LSC 353 (or instructor approval).

W LSC 430 Environmental and Human Toxicology. (4)

selected semesters

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

W LSC 432 Basic Pharmacology. (3)

selected semesters

Aspects of pharmacology using an integrated approach to familiarize students with natural and synthetic therapeutic agents used in

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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medicine. Prerequisite: either LSC 353 or both LSC 358 and 359 or only instructor approval.

W LSC 434 Marine Ecology. (3)

selected semesters

Examines ecological processes in oceans, seas, and estuaries that emphasizes species- and community-level phenomena. Prerequisite: LSC 320.

W LSC 443 Molecular Genetics. (3)

selected semesters

Nature and function of the gene; emphasizes the molecular basis of inheritance and gene expression in prokaryotes and eukaryotes. Prerequisites: LSC 347; a course in organic chemistry.

W LSC 444 Fundamentals of Microbiology. (3)

fall

Overview of microorganisms; their anatomy, physiology, genetics, metabolic diversity, and ecological significance. Not open to students with credit in MIC 205. Prerequisite: LSC 353.

W LSC 445 Fundamentals of Microbiology Laboratory. (1)

fall

Principles and lab techniques used in culturing, identifying, and analyzing microorganisms. Not open to students with credit in MIC 206. 3 hours lab. Fee. Corequisite: LSC 444.

W LSC 447 Molecular Genetics Laboratory. (1)

selected semesters

Investigative lab involving DNA isolation, PCR, gel electrophoresis, enzyme digestion and ligation, transformation, and hybridization analysis. 3 hours lab. Fee. Pre- or corequisite: LSC 443.

W LSC 450 Premedical Externship. (3)

fall and spring

Provides hands-on experience in a hospital setting for premedical students. Prerequisite: BIO 188. Pre- or corequisites: LCS 350; instructor approval.

W LSC 453 Animal Histology. (4)

selected semesters

Microscopic study of animal tissues. 3 hours lecture; 3 hours lab. Fee. Prerequisites: BIO 187; LSC 353 (or instructor approval).

W LSC 471 Ornithology. (3)

selected semesters

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

W LSC 473 Ichthyology. (3)

selected semesters

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

W LSC 474 Herpetology. (3)

selected semesters

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

W LSC 482 Methods of Teaching Biology. (3)

fall

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

W LSC 484 Internship. (1–6)

fall, spring, summer

Opportunities for students to pursue interests they develop in course work. Especially appropriate for applied aspects of science. Prerequisite: department chair approval.

W LSC 489 Capstone Course in Integrated Natural Sciences. (1)

selected semesters

Integrates the core curriculum and makes connections between the science and careers/graduate school. Prerequisite: at least 28 semester hours in the major.

W LSC 498 Pro-Seminar. (1–7)

selected semesters

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

PHYSICS (PHY)

For more PHY courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W PHY 101 Introduction to Physics. (4)

selected semesters

Emphasizes applications of physics to life in the modern world. Presumes understanding of elementary algebra. 3 hours lecture, 1 hour recitation, 2 hours lab. Fee.

General Studies: SQ

W PHY 111 General Physics. (3)

fall

Noncalculus treatment of the principles of physics for nonphysics majors. Students whose curricula require a lab course must also register for PHY 113. Prerequisite: trigonometry.

General Studies: SQ (if credit also earned in PHY 113)

W PHY 112 General Physics. (3)

spring

Continuation of PHY 111. Students whose curricula require a lab course must also register for PHY 114. Prerequisite: PHY 111.

General Studies: SQ (if credit also earned in PHY 114)

W PHY 113 General Physics Laboratory. (1)

fall

Elementary experiments in physics. Requires outside preparation for experiments and report writing. May be taken concurrently with, or subsequent to, PHY 111. 2 hours lab, 1 hour recitation.

General Studies: SQ (if credit also earned in PHY 111)

W PHY 114 General Physics Laboratory. (1)

spring

See PHY 113. May be taken concurrently with, or subsequent to, PHY 112. 2 hours lab.

General Studies: SQ (if credit also earned in PHY 112)

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Department of Integrative Studies

www.west.asu.edu/ias

602/543-6003

FAB N279

Shari Collins-Chobanian, Chair

Professor: McGovern

Associate Professors: Collins-Chobanian, Pambuccian, Stryker

Assistant Professor: Sander-Staudt

Senior Lecturer: Schmidtke

Lecturers: Anderson, Gately, Persau

The Department of Integrative Studies faculty offers an interdisciplinary Bachelor of Arts degree program in Integrative Studies, the Bachelor of Applied Science, minor in Philosophy, and courses in a number of areas that contribute to General Studies program requirements.

APPLIED SCIENCE—BAS

Nature of the Program

The Bachelor of Applied Science (BAS) is a flexible degree plan designed specifically to serve the additional education needs of students who have earned community college Associate of Applied Science (AAS) degrees. The AAS degree transfers as a block to the university as meeting all graduation requirements beyond the BAS requirements. BAS students then complete a 60-semester-hour capstone program.

To be admitted to the BAS, students must complete an AAS degree at a regionally accredited institution or an AAS equivalent to be determined by the BAS admissions committee. A student who is completing an AAS degree may be granted conditional admission into the BAS degree program. This conditional status is effective for one semester. An official transcript with the degree posted must be received by the BAS program coordinator in order to register for subsequent semesters.

Career Outlook

The BAS degree is primarily intended to assist in job progression rather than initial job qualification. Achievement of a bachelor’s degree may remove promotional ceilings that can limit advancement. The degree may also be of use to those who wish to make mid-career changes. Most of the students for whom the BAS is designed have an occupational qualification by virtue of their AAS degrees, and most will be employed in related areas. The BAS curriculum can enhance the student’s technical education and experience while providing the broader cognitive skills and perspective that are associated with baccalaureate education and are relevant in any working environment. With the assistance of an advisor, students will be able to tailor their programs to suit their personal or career objectives.

Admission

To be admitted to the BAS degree program, students must have completed an Associate of Applied Science (AAS) degree at a regionally accredited institution or an AAS equivalent to be determined by the BAS admissions committee.

Program Requirements

The BAS is composed of the AAS degree plus a 60-semester-hour capstone requirement. The 60 semester hours must all be in the upper division with the exception of the mathematics (MA) course if it is needed. The requirements are as follows:

1. BAS core, 21 semester hours;
2. General studies completion curriculum, 13 semester hours (minimum);
3. Concentration, 18 to 21 semester hours; and
4. Electives, zero to eight semester hours.

Core Requirements

The goals of the BAS core curriculum are

1. to provide an educational bridge between lower-division and upper-division programming,

2. to develop professional communication and quantitative skills, and
3. to hone critical and creative abilities.

BAS Core Courses

BAS Bridge

IAS 300 Adult Career Development *L/SB*.....3

Management Skills

GLB 303 Relationship Management3

Communication Skills

ENG 301 Writing for the Professions *L*.....3

Quantitative Skills

Choose one of the following courses3

EDT 321 Computer Literacy *CS* (3)

SBS 304 Social Statistics I *CS* (3)

Aesthetics/Creativity

Choose one of the following courses3

IAP 300 Introduction to Interdisciplinary Arts *HU* (3)

IAP 301 Energetic Systems of Art: Collaboration in the Arts (3)

THE 321 History of Theatre *HU, H* (3)

THE 400 Focus on Film (3)

Other approved arts course

Ethics

Choose one of the following courses3

PHI 306 Applied Ethics *HU* (3)

PHI 360 Business and Professional Ethics *HU* (3)

PHI 406 Moral Dilemmas *L/HU* (3)

PHI 407 Environmental Philosophy and Policy *L/HU* (3)

Exit Project

Choose one of the following courses3

IAS 484 Internship (3)

IAS 493 Honors Thesis (3)

IAS 499 Individualized Instruction (3)

Core total.....21

General Studies Completion Curriculum (13 Semester Hours). The BAS curriculum is based on the assumption that students have completed an AAS degree program with a general studies component of approximately 18 semester hours. To complete the remainder of their university requirements, students need to take one course in each of the following areas, in addition to any General Studies courses completed in the categories above:

1. cultural diversity in the U.S. (C);
2. global awareness (G);
3. historical awareness (H);
4. natural science—general core with lab (SG);
5. social and behavioral sciences (SB): students may complete the SB requirement in conjunction with one of the other program requirements; and
6. mathematics (MA): students may be required to take an MA course if the mathematics course included in

L literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/ quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SQ* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See “General Studies,” page 93.

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the AAS degree does not meet the criteria for MA; this course may be taken in the lower division.

Concentration (18 to 21 Semester Hours). In consultation with an advisor, the student completes the course work of a minor available at the West campus or develops an individualized concentration that has a coherent theme or purpose and fulfills intended learning outcomes. Specific requirements for the minor are described in this catalog under major field departments. The semester hours required in a minor vary by department. The courses taken to fulfill the concentration requirement may not be used to concurrently fulfill the requirements of a minor. A minimum of nine upper-division semester hours in the concentration area must be completed in residence at the West campus. Courses taken to fulfill the concentration requirement at the Tempe campus or the Polytechnic campus must be chosen in consultation with and approved by the department offering that course work.

Elective Credit (Zero to Eight Semester Hours). Electives, if needed, are chosen to fulfill the 60-semester-hour requirement.

Other Requirements. No credit is granted toward fulfilling major or concentration requirements in any upper-division course unless the grade in that course is at least a “C” (2.00). Normally a “Y” (satisfactory) grade needs confirmation that it is equivalent to a “C” (2.00) or higher.

Candidates for the BAS degree program are not required to fulfill the New College of Interdisciplinary Arts and Sciences proficiency requirements.

INTEGRATIVE STUDIES—BA

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 arts, humanities, mathematics, sciences, and social sciences. 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. communication studies, English, gerontology, history, psychology, prelaw, or pre-MBA). Students can tailor their academic programs to meet their individualized career goals. A capstone internship program prepares students to make the transition smoothly to postbaccalaureate 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 to 48 semester hours with a grade of “C” (2.00) or higher in each course. Program requirements include 21 semester hours of core courses and 18 to 27 semester hours in a concentration.

Core Courses. Select one course from each category.

Gateway Course

IAS 300 Adult Career Development *L/SB*.....3

Ethical Reflection

Choose one of the following courses3

IAS 340 Bioethics *HU* (3)

IAS 406 Moral Dilemmas *L/HU* (3)

IAS 407 Environmental Philosophy and Policy *L/HU* (3)

IAS 408 Feminist Ethics *HU* (3)

Diverse Identities

Choose one of the following courses3

IAS 305 Work and Identity *SB* (3)

IAS 420 Multicultural Autobiographies *L/HU, C* (3)

IAS 477 World Literature *L/HU, G* (3)

Scientific and Mathematical Perspectives

Choose one of the following courses3

IAS 410 Evolution of Ideas *L/HU* (3)

IAS 411 History and Philosophy of Mathematics *HU, H* (3)

IAS 415 Life in the Universe (3)

IAS 416 Black Holes and Beyond (3)

Secular and Sacred Worldviews

Choose one of the following courses3

IAS 220 Psychology, Multicultural Narratives and Religion *L/HU, C* (3)

IAS 430 Science and Religion *L/HU* (3)

Elective

IAS elective.....3

Capstone Course

Choose one of the following courses3

IAS 484 Internship (3)

IAS 494 ST: Research (3)

IAS 494 ST: Writing (3)

Program total.....21

Concentration

Working with the Integrative Studies faculty advisor, students will complete the course work of a minor available at West campus or create an individualized concentration.

Approved Minor

Working with the Integrative Studies faculty advisor, students will select one of the minors available at West campus (“West Campus Minors” table, page 654). 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 concurrently 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 Writing Certificate Program.

MINOR IN PHILOSOPHY

Nature of Program

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

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

Program Requirements

The minor in Philosophy consists of 21 semester hours of philosophy course work, 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” (2.00) or higher will fulfill requirements for the minor. Courses are to be selected from the following list in consultation with a philosophy advisor to create a coherent and complete program of study:

Minor in Philosophy Course List

IAS 411 History and Philosophy of Mathematics HU, H	.....3
or MAT 411 History and Philosophy of Mathematics HU, H (3)	
IAS 484 Internship	.....3
IAS 494 ST: Special Topics	.....3
PHI 101 Introduction to Philosophy HU	.....3
PHI 103 Principles of Sound Reasoning L/HU	.....3
PHI 306 Applied Ethics HU	.....3
PHI 340 Bioethics HU	.....3
or IAS 340 Bioethics HU (3)	
PHI 360 Business and Professional Ethics HU	.....3
PHI 406 Moral Dilemmas L/HU	.....3
or IAS 406 Moral Dilemmas L/HU (3)	
PHI 407 Environmental Philosophy and Policy L/HU	.....3
or IAS 407 Environmental Philosophy and Policy L/HU (3)	
PHI 408 Feminist Ethics HU	.....3
or IAS 408 Feminist Ethics HU (3)	
PHI 494 Special Topics	.....3
PHI 499 Individualized Instruction	.....1-3
or IAS 499 Individualized Instruction (1-3)	

ASTRONOMY (AST)

For more AST courses, see the “Course Prefixes” table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W AST 111 Introduction to Solar Systems Astronomy. (3)

fall
History, properties of light, instruments, study of solar system and nearby stars. For nonscience majors. Optional lab (AST 113).
General Studies: SQ (if credit also earned in AST 113)

W AST 112 Introduction to Stars, Galaxies, and Cosmology. (3)

spring
Structure and evolution of stars, star clusters, galaxies, cosmology. For nonscience majors. Optional lab (AST 114).
General Studies: SQ (if credit also earned in AST 114)

W AST 113 Astronomy Laboratory I. (1)

fall
Astronomical observations and experiments designed to help the student become familiar with the sky, telescopes, and astronomical measurements. 3 hours lab. Pre- or corequisites: AST 111; a working knowledge of high school algebra and geometry.
General Studies: SQ (if credit also earned in AST 111)

W AST 114 Astronomy Laboratory II. (1)

spring
Similar to AST 113, but material chosen to supplement AST 112. 3 hours lab. Pre- or corequisites: AST 112; a working knowledge of high school algebra and geometry.
General Studies: SQ (if credit also earned in AST 112)

W AST 494 Special Topics. (1-4)

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

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see “Omnibus Courses,” page 63.

INTEGRATIVE STUDIES (IAS)

IAS Note 1. Completion of the First-Year Composition requirement (ENG 101 and 102 or ENG 105 or ENG 107 and 108 [available at Tempe campus] with a grade of “C” [2.00] or higher) is a prerequisite for all English courses above the 100 level.

W IAS 220 Psychology, Multicultural Narratives, and Religion. (3)

fall
Examines contemporary multicultural life narratives that explore diversity in America and the authors’ constructions of psychological identity and religious values. Prerequisite: ENG 101 or 105.
General Studies: L/HU, C

W 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

W IAS 305 Work and Identity. (3)

spring
Explores the relationship between work and identity, as well as the search for meaning in work across generations.
General Studies: SB

W IAS 310 Women in Art. (3)

fall
Cultural, historical, and social issues relating to the seeming scarcity of women artists and changing social contexts for women artists. Cross-listed as IAP 310. Credit is allowed for only IAS 310 or IAP 310. Prerequisite: ENG 101 or 105.
General Studies: HU

W IAS 340 Bioethics. (3)

selected semesters
Philosophical exploration of ethical issues in health care delivery and the life sciences. Cross-listed as PHI 340. Credit is allowed for only IAS 340 or PHI 340.
General Studies: HU

W IAS 406 Moral Dilemmas. (3)

fall and spring
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. Credit is allowed for only IAS 406 or PHI 406. Prerequisite: ENG 101 or 105.
General Studies: L/HU

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See “General Studies,” page 93.

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W IAS 407 Environmental Philosophy and Policy. (3)

selected semesters

Ethical concepts and theories applied to environmental issues: biotic community, biodiversity, degradation, ecofeminism, ecology, economics, population, property rights, and wilderness. Not open to students with credit in PHI 310. Cross-listed as PHI 407. Credit is allowed for only IAS 407 or PHI 407. Prerequisite: ENG 101 or 105.

General Studies: L/HU

W IAS 408 Feminist Ethics. (3)

selected semesters

Philosophical exploration of the theoretical and practical aspects of ethical issues affecting women from diverse feminist viewpoints. Cross-listed as PHI 408. Credit is allowed for only IAS 408 or PHI 408.

General Studies: HU

W IAS 410 Evolution of Ideas. (3)

fall

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

W 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 MAT 411. Credit is allowed for only IAS 411 or MAT 411.

General Studies: HU, H

W IAS 415 Life in the Universe. (3)

fall

Examines the search for life in extreme environments on Earth and in remote locations beyond Earth.

W IAS 416 Black Holes and Beyond. (3)

spring

Explores developments in understanding nature's most basic force—gravity—from Aristotelian concepts to modern theories of curved space-time.

W IAS 420 Multicultural Autobiographies. (3)

fall and spring

Examines the human experience via autobiographies and personal narratives. Multicultural, literary, and psychological perspectives on individual lives. Cross-listed as ENG 420. Credit is allowed for only IAS 420 or ENG 420. See IAS Note 1.

General Studies: L/HU, C

W IAS 430 Science and Religion. (3)

fall and spring

Examines evolving relationships between scientific thought and Western and Eastern religious thought. Explores cosmologies, world views, and epistemologies. Prerequisite: ENG 101 or 105.

General Studies: L/HU

W IAS 477 World Literature. (3)

spring

Introduces world literature, mostly outside the United States and England. Cross-listed as ENG 477. Credit is allowed for only IAS 477 or ENG 477. Prerequisite: ENG 101 or 105.

General Studies: L/HU, G

W 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.

W IAS 494 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Research. (3)
- Science and Religion. (3)
- Writing. (3)

W IAS 499 Individualized Instruction. (1–3)

fall and spring

Topics may include the following:

- Individual Research or Creative Project
Applies interdisciplinary methods of inquiry to a problem identified by student and supervised by faculty.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

PHILOSOPHY (PHI)

For more PHI courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W PHI 101 Introduction to Philosophy. (3)

fall and spring

Explores issues that philosophers have traditionally considered, including morality, reality, and knowledge.

General Studies: HU

W 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

W PHI 306 Applied Ethics. (3)

fall and spring

Uses philosophical techniques to elucidate such vital moral issues as sexual perversion, civil disobedience, abortion, punishment, violence and pacifism, suicide, and euthanasia.

General Studies: HU

W PHI 340 Bioethics. (3)

selected semesters

Philosophical exploration of ethical issues in health care delivery and the life sciences. Cross-listed as IAS 340. Credit is allowed for only PHI 340 or IAS 340.

General Studies: HU

W 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

W PHI 406 Moral Dilemmas. (3)

fall and spring

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. Credit is allowed for only PHI 406 or IAS 406. Prerequisite: ENG 101 or 105.

General Studies: L/HU

W PHI 407 Environmental Philosophy and Policy. (3)

selected semesters

Ethical concepts and theories applied to environmental issues: biotic community, biodiversity, degradation, ecofeminism, ecology, economics, population, property rights, and wilderness. Not open to students with credit in PHI 310. Cross-listed as IAS 407. Credit is allowed for only PHI 407 or IAS 407. Prerequisite: ENG 101 or 105.

General Studies: L/HU

W PHI 408 Feminist Ethics. (3)

selected semesters

Philosophical exploration of the theoretical and practical aspects of ethical issues affecting women from diverse feminist viewpoints. Cross-listed as IAS 408. Credit is allowed for only PHI 408 or IAS 408.

General Studies: HU

W PHI 494 Special Topics. (1–4)

selected semesters

W PHI 499 Individualized Instruction. (1–3)

selected semesters

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Department of Interdisciplinary Arts and Performance

www.west.asu.edu/iap

602/543-6057

FAB N290A

Robert Taylor, Chair

Professor: Lerman

Associate Professors: Sabatini, Taylor

Assistant Professors: Byam, Clark, Kim

Senior Lecturer: Soto

Lecturer: Kennedy

Fine Arts Specialist: St. Clair

The Department of Interdisciplinary Arts and Performance (IAP) offers courses and program activities for practicing artists for the 21st century. It provides an interdisciplinary education in arts performance, media and technology for majors, courses on the arts for the general student body, and serves as a cultural resource for the core and community.

The department offers core and specialized IAP courses in the areas of digital media and technology, performance, visual art practices, and history and theory studies, plus a range of electives in music, theatre, and visual art, and media and performance studies.

INTERDISCIPLINARY ARTS AND PERFORMANCE—BA

Nature of Program

The Bachelor of Arts in IAP focuses on an interdisciplinary study of the arts and media with an emphasis on 20th and 21st century art, performance, technology, and practice. It encourages practical application of theory and content-area knowledge with the integration of skills and performance. IAP courses highlight creativity, innovation, integration, and presentation.

Student Outcomes

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

1. understand the interrelationship among the art forms of music, theater, visual art, performance, and media arts;
2. develop creative work independently;
3. illustrate practical knowledge of the collaborative process in the arts;
4. continue self-development in the arts beyond the program itself;

5. engage in current levels of technology in the arts;
6. exhibit a historical awareness of artistic works, particularly of the 20th century and contemporary practices; and
7. 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 receive practical professional training and solid academic skills. They gain in-depth preparation necessary for careers as artists and performers and creative professionals. They also develop critical backgrounds useful for becoming future teachers and scholars. Graduates of the program are 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 disciplines with a grade of “C” (2.00) or higher. Students with specialized practical 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 at the lower-division level. Program requirements include

Required Core Courses

IAP 304 Traditions of the Avant-Garde and Experimental Art <i>L/HU</i>	3
or IAP 305 20th/21st Century Art, Performance, and Media <i>L/HU</i> (3)	
IAP 325 Sound Performance: Exploring Alternative Performance Groups ¹	3
IAP 334 Conceptual Development in the Arts ¹	3
IAP 354 Visual Representations ¹	3
IAP 361 Digital Editing and Media Literacy ¹ <i>CS</i>	3
IAP 360 IAP Laboratory	3

Socially Embedded Course

IAP 302 Cross-Cultural Perspectives on the Arts <i>L/HU</i>	3
or IAP 464 Media and Diversity (3)	

IAP Electives

Upper-division electives ²	18
One applied arts course (may be lower division) ³	3

Senior Project

IAP 480 Senior Project.....	3
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L literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/ quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SQ* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See “General Studies,” page 93.

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Program total.....45

- ¹ A one-credit lab must be taken as a corequisite with three of the following core courses: IAP 325, 334, 354, and 361.
- ² Courses must be chosen in consultation with a faculty advisor.
- ³ Course may be chosen if not previously used to fulfill requirement.

Senior Project. The goal of any senior project is 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.

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 level (IAP prefix). Six of the 12 upper-division credits must be selected from IAP core courses. The other six credits must be from IAP courses selected with advisor approval. Twelve additional semester hours of approved electives are required.

MINOR/CERTIFICATE IN FILM AND VIDEO STUDIES

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

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

MINOR IN FILM AND VIDEO STUDIES

For the minor, students select one of two areas of emphasis: film studies or 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 course work may be applied to nonfoundation course work. 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 experience.

Film Studies Emphasis. Course work requirements are as follows:

Foundational Courses

Choose two of the following courses.....6
 ENG 365 History of Film *HU* (3)
 IAP 351 Concept, Image, and Text (3)
 SOC 366 Film and Society *SB* (3)

Theoretical, Conceptual, or Historical Courses

Choose two of the following courses*.....6
 ENG 365 History of Film *HU* (3)
 IAP 351 Concept, Image, and Text (3)
 IAP 364 Documentaries (3)
 IAP 465 Media Technologies and the Arts (3)
 SOC 364 Popular Culture *SB* (3)
 SOC 365 Sociology of Mass Communication *SB* (3)
 SOC 366 Film and Society *SB* (3)
 THE 300 Film: The Creative Process *HU* (3)
 THE 400 Focus on Film (3)

Applied/Practical Courses

Choose two of the following courses*.....6
 COM 329 Persuasion (3)
 COM 421 Rhetoric of Social Issues *HU* (3)
 COM 429 Semiotics and Visual Communication (3)
 ENG 365 History of Film *HU* (3)
 IAP 322 Multitrack Digital Recording (3)
 IAP 334 Conceptual Development in the Arts (3)
 IAP 361 Digital Editing and Media Literacy *CS* (3)
 IAP 363 Sound, Image, and Media (3)
 IAP 364 Documentaries (3)
 IAP 365 Digital Interactivity (3)
 IAP 465 Media Technologies and the Arts (3)
 IAP 466 Digital Interactivity, Advanced (3)
 IAP 467 Acoustic Ecology (3)
 IAP 474 Art and Film *L/HU* (3)
 SOC 364 Popular Culture *SB* (3)
 SOC 365 Sociology of Mass Communication *SB* (3)
 SOC 366 Film and Society *SB* (3)
 THE 300 Film: The Creative Process *HU* (3)
 THE 400 Focus on Film (3)
 THP 394 ST: Acting for the Camera (3)
 THP 394 ST: Television Production (3)

Capstone Project

IAP 480 Senior Project.....3
 Program total.....21

* Other approved courses may be used to meet this requirement.

Media and Video Studies Emphasis. Course work requirements are as follows:

Foundational Courses

Choose two of the following courses*.....6
 COM 324 Rhetoric and Media Criticism (3)
 IAP 351 Concept, Image, and Text (3)
 IAP 465 Media Technologies and the Arts (3)

DEPARTMENT OF INTERDISCIPLINARY ARTS AND PERFORMANCE

SOC 365 Sociology of Mass Communication *SB* (3)

Theoretical, Critical, Performance, and/or Production Courses

Choose four of the following courses*2

COM 324 Rhetoric and Media Criticism (3)	
COM 329 Persuasion (3)	
COM 421 Rhetoric of Social Issues <i>HU</i> (3)	
COM 429 Semiotics and Visual Communication (3)	
ENG 365 History of Film <i>HU</i> (3)	
IAP 322 Multitrack Digital Recording (3)	
IAP 334 Conceptual Development in the Arts (3)	
IAP 351 Concept, Image, and Text (3)	
IAP 361 Digital Editing and Media Literacy <i>CS</i> (3)	
IAP 363 Sound, Image, and Media (3)	
IAP 364 Documentaries (3)	
IAP 365 Digital Interactivity (3)	
IAP 465 Media Technologies and the Arts (3)	
IAP 466 Digital Interactivity, Advanced (3)	
IAP 467 Acoustic Ecology (3)	
IAP 474 Art and Film <i>L/HU</i> (3)	
SOC 364 Popular Culture <i>SB</i> (3)	
SOC 365 Sociology of Mass Communication <i>SB</i> (3)	
SOC 366 Film and Society <i>SB</i> (3)	
THE 300 Film: The Creative Process <i>HU</i> (3)	
THE 400 Focus on Film (3)	
THP 394 ST: Acting for the Camera (3)	
THP 394 ST: Television Production (3)	
WST 431 Women and Film <i>L, G</i> (3)	

Capstone Project

IAP 480 Senior Project.....	3
Emphasis total.....	21

* Other approved courses may be used to meet this requirement.

Senior Project. The project should reflect the integration of course work with creative initiative to generate a product that stands alone as a piece of original work. For the film studies emphasis the project focuses 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 are 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.

ART AUXILIARY (ARA)

For more ARA courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W 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.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

ART HISTORY (ARS)

For more ARS courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W ARS 101 Art of the Western World I. (3)

fall

History of Western art from the Paleolithic period through the Middle Ages.

General Studies: HU, H

W ARS 102 Art of the Western World II. (3)

spring

History of Western art from the Renaissance to the present.

General Studies: HU, H

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

selected semesters

Developments and directions in art between 1900 and World War II.

Prerequisites: both ARS 101 and 102 or only instructor approval.

General Studies: HU

W 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: a combination of ARS 101 and 102 and 438 or only instructor approval.

General Studies: HU, H

W ARS 494 Special Topics. (3)

selected semesters

Topics may include art of the Southwest.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

ART (ART)

For more ART courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W ART 394 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Aesthetics of Visual Perception
- Music Videos
- Rock Culture and the Avant Garde

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

INTERDISCIPLINARY ARTS AND PERFORMANCE (IAP)

W IAP 101 Art, Artist, and Culture. (3)

fall and spring

Provides an approach to art, creativity, and culture in global, historical, and contemporary contexts.

General Studies: HU

W IAP 300 Introduction to Interdisciplinary Arts. (3)

fall

Considers interdisciplinarity in practical terms in all art forms. Also considers antecedents and cross-cultural issues.

General Studies: HU

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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W IAP 301 Energetic Systems of Art: Collaboration in the Arts. (3) *selected semesters*

Identifies and explores the energetic systems at work in the creation, performance, and perception of art.

W 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

W IAP 303 Artists and the Contemporary American Experience. (3) *selected semesters*

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

W IAP 304 Traditions of the Avant-Garde and Experimental Art. (3) *selected semesters*

Surveys 20th-century art movements and "isms," including futurism, dada, surrealism, constructivism, realism, the Bauhaus, abstract expressionism, minimalism.

General Studies: L/HU

W IAP 305 20th and 21st Century Art, Performance, and Media. (3) *selected semesters*

Surveys artists, movements, and trends in the arts with an emphasis on interdisciplinary performance, media, and technology.

General Studies: L/HU

W IAP 306 Extended Traditions in Drawing. (3) *fall in even years*

fall in even years

Explores alternative methods of rendering the drawn image. Emphasizes incorporating other art forms to inform students' individual work. Fee.

W IAP 307 Art and War. (3) *fall*

fall

Global interdisciplinary survey of the range of work created by artists in response to war, through time. Seminar, screening, listening.

General Studies: HU, G

W IAP 310 Women in Art. (3) *fall*

fall

Cultural, historical, and social issues relating to the seeming scarcity of women artists and changing social contexts for women artists. Cross-listed as IAS 310. Credit is allowed for only IAP 310 or IAS 310. Prerequisite: ENG 101 or 105.

General Studies: HU

W IAP 321 Music Composition I. (3) *fall*

fall

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

W IAP 322 Multitrack Digital Recording. (3) *spring in odd years*

spring in odd years

Introduces students to theory and practice of Musical Instrument Digital Interface (MIDI) technology.

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

spring in odd years

Histories and theories of music and visual arts with emphasis on convergences within 20th-century avant-garde traditions. Fee.

W IAP 324 The Voice and Performance. (3) *selected semesters*

selected semesters

Involves all aspects of the human voice, including research, creation, and performance.

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

spring

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

W IAP 331 Performance, Acting, and the Individual. (3) *fall*

fall

Explores the concepts of the "self," the "subject," and the "author" as each pertains to the solo artist.

W IAP 332 Technical Production for Interdisciplinary Arts. (3) *selected semesters*

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

W IAP 333 Directing for Performance. (3) *fall*

fall

Explores various strategies for performance. Emphasizes nontraditional staging and performance.

W IAP 334 Conceptual Development in the Arts. (3) *fall*

fall

Conceptual development processes in the arts from initial idea to formal project proposals, grants, and production plans.

W IAP 335 Vocalization and Movement. (3) *spring*

spring

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

W IAP 347 Movement in Education. (3) *selected semesters*

selected semesters

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

W IAP 351 Concept, Image, and Text. (3) *selected semesters*

selected semesters

The generation of images and metaphors using various media and visual stimuli. Fee.

W IAP 352 Seeing and Drawing. (3) *fall and spring*

fall and spring

Develops 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.

W IAP 354 Visual Representation. (3) *fall*

fall

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

W IAP 355 Illusion and Vision. (3) *spring in odd years*

spring in odd years

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

W IAP 356 Spatial Impressions. (3) *spring in even years*

spring in even years

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

W IAP 360 IAP Laboratory. (1) *fall, spring, summer*

fall, spring, summer

Provides instructor-student contact time focusing on the technical instruction of media and technology applications. Demonstrations, hands-on tutorial. Corequisites IAP 325 or 354 or 361.

W IAP 361 Digital Editing and Media Literacy. (3) *fall and spring*

fall and spring

Investigates the approaches used in digital editing with a focus on interactivity, graphics, audio, and desktop video. Fee.

General Studies: CS

W IAP 363 Sound, Image, and Media. (3) *fall in odd years*

fall in odd years

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

W IAP 364 Documentaries. (3) *fall in even years*

fall in even years

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

W IAP 365 Digital Interactivity. (3) *spring in odd years*

spring in odd years

Combines graphics, video, and animation with digital authoring tools for creation of interactive multimedia Web sites. Fee. Pre- or corequisite: IAP 361.

DEPARTMENT OF INTERDISCIPLINARY ARTS AND PERFORMANCE

W IAP 368 Digital Graphic Technologies. (3)

fall

Employs technology used in contemporary graphic designs to design concepts and techniques for modeling and representation applications. Lecture, lab. Prerequisite: ACO 201 or instructor approval.

W IAP 371 Verbal Art. (3)

fall in even years

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

W IAP 373 The Critical Artist. (3)

selected semesters

Focuses on artists' critical thought, theorizing, and representation of art across disciplines and genres.

W 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. May be repeated for credit when topics vary. Fee. Prerequisite: IAP 321.

W IAP 422 Contemporary Orchestration Practices. (3)

fall in odd years

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

W IAP 431 Perspectives on Performance and Acting. (3)

spring

Focuses on the interaction of the performer with media, alternative stagings, and collaboration with other performers.

W IAP 433 Directing Workshop. (3)

fall

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

W IAP 434 Production Laboratory. (3)

spring

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

W IAP 441 Dance-Drama. (3)

spring

Explores the relationship of movement as it relates to drama, both historically and cross-culturally.

W IAP 442 Movement and Music. (3)

spring

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

W IAP 452 Elements of Painting. (3)

selected semesters

Develops painting skills and personal artistic vision through projects stimulated by other art forms. Studio: 6 hours per week. Fee.

Prerequisite: ART 311 or 323 or IAP 352 or instructor approval.

W IAP 454 New Directions in Painting. (3)

selected semesters

Develops painting skills and personal artistic vision through projects stimulated by other art forms. Studio: 6 hours per week. Fee.

Prerequisite: IAP 452 or instructor approval.

W IAP 457 Urban Narrative. (3)

fall in odd years

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

W IAP 464 Media and Diversity. (3)

spring in odd years

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

W IAP 465 Media Technologies and the Arts. (3)

fall in odd years

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

W IAP 466 Digital Interactivity, Advanced. (3)

selected semesters

Advanced multimedia authoring skills for creation of interactive works in DVD, CD ROM, and other media formats. Fee. Prerequisite: IAP 365 or instructor approval.

W IAP 467 Acoustic Ecology. (3)

spring in even years

Investigations into the relationship between audio art and ecology; covers field recording, oral histories, digital editing, and designing audio Web site and databases. Fee. Prerequisite: IAP 361.

Prerequisite for Life Sciences and Communication Studies majors: instructor approval.

W IAP 468 Digital Graphic Applications. (3)

spring

Targeting, planning, design, authoring, development, and presentation of professional digital media graphics for Internet and print.

Prerequisite: IAP 368.

W IAP 469 Advanced Audio Production. (3)

fall

Engages advanced media students in the technical, logistical, and aesthetic concerns specific to audio in all forms of digital media. Fee. Prerequisite: IAP 322 or 361.

W IAP 471 Language, Culture, and Performance. (3)

selected semesters

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

W IAP 472 Theories of Arts and Performance. (3)

spring in even years

Key texts, thinkers, concepts, and approaches to the arts and performance. Prerequisites: ENG 101 or 105

W IAP 473 Aesthetic Research. (3)

fall in odd years

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

W IAP 474 Art and Film. (3)

once a year

Focuses on film as an art form in relation to the arts through aesthetics, cinematic theory, period study. Prerequisite: ENG 101 or 105.

General Studies: L/HU

W IAP 480 Senior Project. (3–6)

fall and spring

Capstone course. Students develop an exit project for the IAP degree under the guidance of an advisor. Fee. Prerequisites: both IAP major and senior standing or only advisor approval.

W IAP 484 Internship. (1–12)

selected semesters

W IAP 494 Special Topics. (1–4)

selected semesters

Topics may include the following:

- HTML Creating a Web Page. (1)

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

MASTER OF ARTS IN INTERDISCIPLINARY STUDIES (MAS)

Graduate-Level Courses. For information about courses numbered from 500 to 799, see the *Graduate Catalog*, or access www.asu.edu/catalog on the Web. In some situations, undergraduate students may be eligible to take these courses; for more information, see "Graduate-Level Courses," page 62.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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MUSIC (MUS)

For more MUS courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W MUS 340 Listening to Music. (3)

selected semesters

Major periods, composers, and compositions in the history of music.

General Studies: HU, H

W MUS 349 Music in America. (3)

selected semesters

Current styles of American music including jazz, popular, and folk music.

General Studies: HU, H

W MUS 354 Popular Music. (3)

selected semesters

Emphasizes 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

W MUS 355 Survey of American Music. (3)

selected semesters

Growth and development of American music.

W 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

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

THEATRE (THE)

For more THE courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W THE 100 Introduction to Theatre. (3)

fall and spring

Surveys theatre production from the Greeks to contemporary theatre.

General Studies: HU

W 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

W THE 320 History of the Theatre. (3)

fall

Traces major developments in theatre production from its beginning to the 17th century.

General Studies: HU, H

W THE 321 History of Theatre. (3)

spring

Traces major developments in theatre production from the 17th century to modern times.

General Studies: HU, H

W THE 400 Focus on Film. (3)

selected semesters

Specialized study of prominent film artists, techniques, and genres. Emphasizes the creative process. May be repeated once for credit. Prerequisite: ENG 101 or 105.

W THE 494 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Experimental Film. (3)
- Film and Society. (3)
- Women in Film. (3)

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

THEATRE PERFORMANCE AND PRODUCTION (THP)

For more THP courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W THP 294 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Musical Theatre (History/Survey)

W THP 394 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Acting for Nonmajors. (3)
- Acting for the Camera. (3)
- Television Production. (3)
- Theatre Studio/Workshop I. (3)

W THP 494 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Acting for Nonmajors. (3)
- Acting for the Camera. (3)
- Storytelling and Poetry. (3)
- Theatre Studio/Workshop II. (3)

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Department of Language, Cultures, and History

www.west.asu.edu/lch

602/543-6090

FAB N220

Eduardo Pagán, Chair

Professors: E. Cutrer, T. Cutrer

Associate Professors: Anokye, Bredbenner, Broaddus, Cárdenas, Cuádriz, Gilkeson, Hattenhauer, Pagán, Wertheimer

Assistant Professors: Bixby, DeBacker, Dorsey, Dudy Bjork, Friedrich, Lee, Stancliff, Toth, Ukpanah

Visiting Assistant Professor: Flynn

Lecturers: Cisler, Garcia, Raiser

The Department of Language, Cultures, and History faculty offer 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.

AMERICAN STUDIES—BA

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:

1. American systems, which deals with political, economic, religious, and legal institutions;
2. American cultures, which concentrates on systems of belief and their symbolic expression in literature, art, philosophy, and regional and popular cultures;
3. American lives, which explores the ways in which categories of race, ethnicity, class, and gender intersect with individual and community experience; and
4. 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 semester 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 semester 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 multiculturalism. Of the focused course work, at least four courses (12 semester 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 take a variety of forms; they can include internships, theses, or a similar kind of creative project. The purpose of the exit project is to help students 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 BA 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, 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 hours) with a grade of "C" (2.00) or higher is required.

Core Courses

AMS 301 Introduction to American Studies <i>L</i>	3
Choose from the following combinations.....	6
AMS 310 History of American Systems to 1865 <i>L, C, H</i> (3)	
AMS 311 History of American Systems since 1865 <i>H</i> (3)	
--- or ---	
AMS 320 American Cultural History I <i>SB, H</i> (3)	
AMS 321 American Cultural History II <i>SB, H</i> (3)	
AMS 330 Introduction to American Lives <i>HU</i>	3
Core total.....	12

Focused Course Work (21 Semester Hours). Working with the American Studies faculty advisor, students 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 semester hours must be from the upper division.

Exit Project (Three Semester Hours). Thesis, internship, or research designed in consultation with a faculty advisor.

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.

AMS 301 Introduction to American Studies <i>L</i>	3
Choose from the following combinations.....	6
AMS 310 History of American Systems to 1865 <i>L,C, H</i> (3)	
AMS 311 History of American Systems since 1865 <i>H</i> (3)	
--- or ---	
AMS 320 American Cultural History I <i>SB, H</i> (3)	
AMS 321 American Cultural History II <i>SB, H</i> (3)	
AMS 330 Introduction to American Lives <i>HU</i>	3
Core total.....	12

Supporting Courses. Select two courses (six semester hours) with substantial American content that must be approved by the American Studies faculty advisor.

Total18

ENGLISH—BA

Nature of Program

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

L literacy and critical inquiry / *MA* mathematics / *CS* computer/statistics/ quantitative applications / *HU* humanities and fine arts / *SB* social and behavioral sciences / *SG* natural science—general core courses / *SQ* natural science—quantitative / *C* cultural diversity in the United States / *G* global / *H* historical / See "General Studies," page 93.

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The major allows students to emphasize particular genres, periods, regions, and themes through a mix of required courses and electives. Students determine appropriate programs of study in consultation with faculty advisors. Thus, each student is assured the general background that academia and business often require.

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” (2.00) or higher is required in all courses taken for the major.

Lower-Division Required Courses

ENG 221 Survey of English Literature <i>HU, H</i>	3
ENG 222 Survey of English Literature <i>HU, H</i>	3
ENG 241 American Literature <i>HU</i>	3
ENG 242 American Literature <i>HU</i>	3

Upper-Division Required Courses

ENG 311 Persuasive Writing <i>L</i>	3
ENG 323 Rhetoric and Grammar <i>L</i>	3
ENG 400 History of Literary Criticism <i>L/HU, H</i>	3
ENG 473 Shakespeare.....	3
Literature of gender or ethnicity course ¹	3
Elective ²	18
Total	45

¹ AMS or ENG upper division course approved by advisor.

² English electives must be selected in consultation with a faculty advisor.

Minor in English

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

Lower-Division Required Courses

ENG 221 Survey of English Literature <i>HU, H</i>	3
ENG 222 Survey of English Literature <i>HU, H</i>	3
ENG 241 American Literature <i>HU</i>	3
ENG 242 American Literature <i>HU</i>	3

Upper-Division Required Courses

ENG 311 Persuasive Writing <i>L</i>	3
ENG 323 Rhetoric and Grammar <i>L</i>	3
ENG 473 Shakespeare.....	3
Total	21

SECONDARY EDUCATION—BAE

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 “College of Teacher Education and Leadership,” page 745) and 39 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 frequently: writing, Shakespeare, British and American classics, major recent texts, ethnicity, and gender. Students determine appropriate programs of study in consultation with faculty advisors. A grade of “C” (2.00) or higher is required in all courses taken for the major.

Lower-Division Required Courses

ENG 221 Survey of English Literature <i>HU, H</i>	3
or ENG 241 American Literature <i>HU</i> (3)	
ENG 222 Survey of English Literature <i>HU, H</i>	3
ENG 242 American Literature <i>HU</i>	3

Upper-Division Required Courses

ENG 311 Persuasive Writing <i>L</i>	3
ENG 323 Rhetoric and Grammar <i>L</i>	3
ENG 473 Shakespeare.....	3
Literature of gender or ethnicity course ¹	3
Elective ²	15
Total	39

¹ Choose course approved by advisor.

² English electives must be selected in consultation with a faculty advisor.

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.

Lower-Division Required Courses

ENG 221 Survey of English Literature <i>HU, H</i>	3
or ENG 241 American Literature <i>HU</i> (3)	
ENG 222 Survey of English Literature <i>HU, H</i>	3
ENG 242 American Literature <i>HU</i>	3

Upper-Division Required Courses

ENG 311 Persuasive Writing <i>L</i>	3
ENG 323 Rhetoric and Grammar <i>L</i>	3
ENG 473 Shakespeare.....	3
Literature of gender or ethnicity course*	3
Total	21

* English electives must be selected in consultation with a faculty advisor.

WRITING CERTIFICATE

Nature of the Program

The Department of Language, Cultures, and History offers a nonfiction writing certificate program for students enrolled in any college at Arizona State University. While taking writing certificate courses, students

1. learn and practice writing in the various styles and genres;
2. are introduced to computer technology relevant to writing and publishing;
3. discuss theoretical and pedagogical applications for classroom practices; and
4. are exposed to information about local and national markets for publishing their work.

One of the hallmarks of the program is that several of the classes offered are taught by professional writers.

Composed of 19 semester hours and only one required course, the program offers opportunity for customizing a plan of study that reflects each student's interests and goals. Additionally, projects in the student's major and internship are optional elements of the certificate.

At the discretion of the director of the program, students may fulfill a maximum of nine semester hours of the requirements for the certificate with

1. courses taken before formal admission;
2. courses taken to fulfill requirements of other programs; or
3. courses taken at other institutions.

For more information on the certificate program, visit FAB N220C, call 602/543-6090, or access the Web site at www.west.asu.edu/lch/degrees/writing_certificate.htm

Career Outlook

Certification of advanced writing skills opens the way to an array of opportunities, from journalism and publishing to public advocacy, military and government careers, elementary and secondary education, business management, economic development, legal/justice professions, 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. A GPA of 3.00 in the prerequisite courses ENG 101 and 102, or ENG 107 and 108, or ENG 105 is required.

Program Requirements

The program requires a minimum of 19 semester hours of writing intensive and publication related course work, including at least 12 semester hours of upper-division courses. The Writing Certificate Portfolio (AMS 490) is mandatory for all students. A GPA of 3.00 or higher is required for course work taken for the Writing Certificate, with the exception of the exit portfolio, which is graded on a satisfactory/fail basis. Students will assemble a portfolio of writing that demonstrates their grasp of the skills presented during their program of study.

AMS 490 Writing Certificate Portfolio	1
Choose electives from the following*	18
AMS 219 Newspaper Production L (3)	
or ENG 219 Newspaper Production L (3)	
AMS 301 Introduction to American Studies L (3)	
AMS 342 Writing about American Culture (3)	
AMS 344 Creative Writing (3)	
AMS 345 Reporting (3)	
AMS 346 Editing (3)	
AMS 394 ST: Comedy Writing (1)	
or ENG 394 ST: Comedy Writing (1)	
AMS 394 ST: Desktop Publishing (1)	
or ENG 394 ST: Desktop Publishing (1)	
AMS 394 ST: Magazine Publication (1)	
or ENG 394 ST: Magazine Publication (1)	

AMS 394 ST: Scriptwriting (1)	
or ENG 394 ST: Scriptwriting (1)	
AMS 494 ST: Freelance Photography (1)	
AMS 494 ST: Writing Historical Fiction (1)	
AMS 494 ST: HTML Creating a Web Page (1)	
or ENG 494 ST: HTML Creating a Web Page (1)	
or IAP 494 ST: HTML Creating a Web Page (1)	
AMS 494 ST: Layout and Design (1)	
or ENG 494 ST: Layout and Design (1)	
AMS 494 ST: Selling Your Writing (1)	
or ENG 494 ST: Selling Your Writing (1)	
COM 320 Communication and Consumerism SB (3)	
COM 329 Persuasion (3)	
COM 353 Professional Communication (3)	
COM 414 Crisis Communication (3)	
COM 484 Internship (1-3)	
ENG 210 Introduction to Creative Writing (3)	
ENG 301 Writing for the Professions L (3)	
ENG 311 Persuasive Writing L (3)	
ENG 316 Writing and Arguing Politics L (3)	
ENG 323 Rhetoric and Grammar L (3)	
ENG 394 ST: Research and Writing (3)	
ENG 412 Writing for Publication (3)	
IAP 351 Concept, Image, and Text (3)	
IAP 361 Digital Editing and Media Literacy CS (3)	
IAP 394 ST: Writing/Performance Seminar (3)	
IAP 465 Media Technologies and the Arts (3)	

Program total.....19

* These courses, or other courses offered under the ENG or AMS prefix or another prefix, must be selected in consultation with the director of the program.

Capstone Project (Optional)

An approved capstone experience from the student's major (or AMS 498) may fulfill one to three semester hours.

Internship (Optional)

Students may fulfill one to three semester hours through an internship with a company, agency, or publication related to the student's planned career.

HISTORY—BA

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 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

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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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 for 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” (2.00) or higher. Program requirements include

- 12 semester hours of core requirements in history;
- 18 semester hours of history electives; and
- 15 semester hours of supporting course work.

At least 21 semester hours in history courses and six semester 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 Pro-seminar, to be completed as an exit project during the student’s final semester.

Core Requirements

Choose one of the following combinations6

A two-semester survey in U.S. history, European history,
or world history (6)

---- or ----

AMS 310 History of American Systems to 1865 *L, C, H* (3)
or AMS 320 American Cultural History I *SB, H* (3)
or HIS 303 American Cultural History I *SB, H* (3)
or HIS 305 History of American Systems to
1865 *L, C, H* (3)

AMS 311 History of American Systems since 1865 II *H* (3)
or AMS 321 American Cultural History II *SB, H* (3)
or AMS 330 Introduction to American Lives *HU* (3)
or HIS 304 American Cultural History II *SB, H* (3)
or HIS 306 History of American Systems
since 1865 *H* (3)

---- or ----

HIS 355 World History to 1500 *G, H* (3)

HIS 356 World History since 1500 *G, H* (3)

Upper-Division Requirements

HIS 300 Historical Methods *L, H*3

HIS 498 History Proseminar *L*3

Additional Course Work

History electives18

Supporting course work15

Total45

History Electives. History majors are required to complete 18 semester hours of history electives, of which a maximum of three semester hours may be taken at the lower division. The 15 semester hours of upper-division course work must

be distributed as follows: six semester hours in American history, six semester hours in European history, and three semester hours in comparative history.

Supporting Course Work. A minimum of 15 semester 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.

Language Proficiency (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” (2.00) or higher, of which six semester hours may be lower division.

Choose one of the following combinations6

A two-semester survey in U.S. history, European history,
or world history (6)

---- or ----

AMS 310 History of American Systems to 1865 *L, C, H* (3)
or AMS 320 American Cultural History I *SB, H* (3)
or HIS 303 American Cultural History I *SB, H* (3)
or HIS 305 History of American Systems to
1865 *L, C, H* (3)

AMS 311 History of American Systems since 1865 II *H* (3)
or AMS 321 American Cultural History II *SB, H* (3)
or AMS 330 Introduction to American Lives *HU* (3)
or HIS 304 American Cultural History II *SB, H* (3)
or HIS 306 History of American Systems
since 1865 *H* (3)

---- or ----

HIS 355 World History to 1500 *G, H* (3)

HIS 356 World History since 1500 *G, H* (3)

Upper Division Requirements

HIS 300 Historical Methods *L, H*3

History Electives9

Total18

SECONDARY EDUCATION, HISTORY SPECIALIZATION—BAE

The requirements for the Bachelor of Arts in Secondary Education with a specialization in history consist of the Professional Teacher Preparation Program for Secondary Education majors (see “College of Teacher Education and Leadership,” page 745) and 39 semester hours in the specialization area.

History Requirements

U.S. History Survey

Choose one of the following combinations6

HIS 103 The United States *SB, H* (3)

HIS 104 The United States *SB, H* (3)

---- or ----

HIS 303 American Cultural History I *SB, H* (3)

HIS 304 American Cultural History II *SB, H* (3)

---- or ----

HIS 305 History of American Systems to 1865 *L, C, H* (3)

HIS 306 History of American Systems since 1865 *H* (3)

HIS 300 Historical Methods *L, H*3

U.S. History Upper-Division Electives

Choose three from the following courses ¹	9
HIS 303 American Cultural History I <i>SB, H</i> (3)	
HIS 304 American Cultural History II <i>SB, H</i> (3)	
HIS 305 History of American Systems to 1865 <i>L, C, H</i> (3)	
HIS 306 History of American Systems since 1865 <i>H</i> (3)	
HIS 300-level course (3)	
HIS 300-level course (3)	
Non-U.S. History electives ²	9
Total	27
Supporting Course Work ³	12
Program total.....	39

- ¹ Selected courses may be used to secure this credit, if not already taken.
- ² A minimum of six of the nine semester hours must be upper-division courses.
- ³ These course must be approved by the BAE history advisor, and a minimum of six of the semester hours must be upper-division courses.

SPANISH—BA

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 New College of Interdisciplinary Arts and Sciences. Spanish classes are taught through an intensive language approach using the most recent electronic technologies, including videos, CD-ROMs, electronic chat groups, and news groups devoted to Hispanic literature and culture.

The program 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, provides 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 semester 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 semester hours in Spanish, at least 24 upper division semester hours are required, with at least nine semester hours at the 400 level. A minimum grade of “C” (2.00) 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.

Required Courses

SPA 313 Spanish Conversation and Composition <i>G</i>	3
or M SPA 315 Spanish Conversation and Composition for Bilinguals (3)	
SPA 314 Spanish Conversation and Composition <i>G</i>	3
or M SPA 316 Spanish Conversation and Composition for Bilinguals (3)	
SPA 325 Introduction to Hispanic Literature.....	3
SPA 412 Advanced Conversation and Composition <i>G</i>	3
SPA 425 Spanish Literature	3
Choose two from the following courses	6
SPA 426 Spanish Literature <i>HU</i> (3)	
SPA 427 Spanish-American Literature (3)	
SPA 428 Spanish-American Literature (3)	
Choose one from the following courses.....	3
M SPA 471 Civilization of the Spanish Southwest <i>HU</i> (3)	
SPA 472 Spanish-American Civilization <i>HU</i> (3)	
Spanish electives*	6
Related area course work*	15
Total	45

* These courses must be chosen in consultation with a faculty advisor.

Minor in Spanish

The minor in Spanish consists of 20 semester hours of Spanish course work, of which 12 semester hours must be in the upper division. All Spanish course work must be completed with a minimum grade of “C” (2.00) or higher.

Minor Requirements

Choose one of the following combinations	8
SPA 201 Intermediate Spanish (4)	
SPA 202 Intermediate Spanish (4)	
--- or ---	
SPA 207 Spanish for International Professions II (8)	
Electives*	12
Total	21

* These SPA elective courses must be at the 300 or 400 level and chosen in consultation with a faculty advisor.

AMERICAN STUDIES (AMS)

AMS Note 1. Completion of the First-Year Composition requirement (ENG 101 and 102 or ENG 105 or ENG 107 and 108 [available at Tempe campus] with a grade of “C” [2.00] or higher) is a prerequisite for all English courses above the 100 level.

W AMS 219 Newspaper Production. (3)

fall and spring

Students work on campus newspaper to learn basics of news and column writing, digital photography, and layout. Cross-listed as ENG 219. Credit is allowed for only AMS 219 or ENG 219. See AMS Note 1.

General Studies: L

L literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/ quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See “General Studies,” page 93.

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W AMS 301 Introduction to American Studies. (3)

fall

Introduces the interdisciplinary study of American culture, emphasizing critical reading and writing skills. Prerequisite: ENG 101 or 105.

General Studies: L

W AMS 310 History of American Systems to 1865. (3)

fall

First of a two-part survey of political, legal, and economic institutions, placed in the context of the nation's colonial background and early national period. Cross-listed as HIS 305. Credit is allowed for only AMS 310 or HIS 305. Prerequisite: ENG 101 or 105.

General Studies: L, C, H

W AMS 311 History of American Systems Since 1865. (3)

spring

Second in a two-part survey of political, legal, and economic institutions, placed in the context of a dynamic industrialist capitalist society, from the age of industrialism and modern America. Cross-listed as HIS 306. Credit is allowed for only AMS 311 or HIS 306.

Prerequisite: ENG 101 or 105.

General Studies: H

W AMS 314 Military Studies. (3)

selected semesters

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

W AMS 316 American Religious Systems. (3)

selected semesters

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

W AMS 320 American Cultural History I. (3)

fall

First of a two-part survey of American culture, broadly defined as historically transmitted patterns of meaning expressed in symbolic forms, including ideas, ideals, the arts, and social and economic standards from the nation's colonial background and early national period. Cross-listed as HIS 303. Credit is allowed for only AMS 320 or HIS 303.

General Studies: SB, H

W AMS 321 American Cultural History II. (3)

spring

Second of a two-part survey of American culture, broadly defined as historically transmitted patterns of meaning expressed in symbolic forms, including ideas, ideals, the arts, and social and economic standards from the age of industrialism and modern America. Cross-listed as HIS 304. Credit is allowed for only AMS 321 or HIS 304.

General Studies: SB, H

W AMS 322 Studies in American Literature. (3)

selected semesters

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

W 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.

W 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.

W AMS 327 Regional Cultures. (3)

selected semesters

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

W AMS 330 Introduction to American Lives. (3)

fall and spring

Examines American society through the study of autobiography and ethnography.

General Studies: HU

W 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.

W 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.

W 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.

W AMS 342 Writing about American Culture. (3)

selected semesters

Teaches methods of writing cultural criticism, emphasizing the essay form.

W AMS 344 Creative Writing. (3)

selected semesters

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

W AMS 345 Reporting. (3)

selected semesters

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

W AMS 346 Editing. (3)

selected semesters

Theory and practice of editing.

W AMS 351 Technical Writing. (3)

fall

Computer-based instruction in writing documents for online, oral, and print formats, focusing on audience-centered rhetoric. Hands-on lab. Prerequisite with a grade of "C" (2.00) or higher: ENG 102 or 105.

W AMS 394 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Comedy Writing. (1)
- Desktop Publishing. (1)
- Magazine Publication. (1)
- Scriptwriting. (1)

W AMS 412 Studies in American Politics and Law. (3)

selected semesters

Topics in American political and legal systems, including social movements in the United States and women and the law. May be repeated for credit when topics vary.

W AMS 414 Military Studies. (3)

selected semesters

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

W AMS 417 Religious Traditions of the American Southwest. (3)

spring

Examines the sacred traditions that have evolved within the North American Southwest context.

General Studies: C

W AMS 422 Studies in American Literature. (3)

selected semesters

Topics in American literature, including contemporary American comic fiction, literature of the American South, literature of American wars, Hispanic chronicles of the Southwest, literature of la Chicana, and American rhetoric. May be repeated for credit when topics vary. Prerequisite: ENG 101 or 105.

General Studies: L/HU

W AMS 428 Chicano Cultures in the Southwest. (3)

fall

Examines and explores Chicana and Chicano culture as place and sentiment. The physical place and space and the sentiment related to Chicanas and Chicanos.

General Studies: SB

W AMS 429 Interdisciplinary Topics. (3)

selected semesters

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

W AMS 431 Gender Studies. (3)

selected semesters

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

W 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.

W 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.

W AMS 494 Special Topics. (1–4)

fall and spring

Senior-level seminar exploring issues or topics from the perspective of each of the three tracks in American Studies. Topics may include the following:

- American Environment. (3)
- Exploration of America. (3)
- Freelance Photography. (1)
- HTML Creating a Web Page. (1)
- Layout and Design. (1)
- Modernism and Modernity. (3)
- Psychology of Religion. (3)
- Selling Your Writing. (1)
- The 1920s: Age of Experiment. (3)
- Writing Historical Fiction. (1)

W AMS 498 Pro-Seminar. (3)

spring

Senior-level exit seminar for American Studies majors.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see “Omnibus Courses,” page 63.

ENGLISH (ENG)

For more ENG courses, see the “Course Prefixes” table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

ENG Note 1. Completion of the First-Year Composition requirement (ENG 101 and 102 or ENG 105 or ENG 107 and 108 [available at Tempe campus] with a grade of “C” [2.00] or higher) is a prerequisite for all English courses above the 100 level.

W ENG 101 First-Year Composition. (3)

fall, spring, summer

Discovers, organizes, and develops ideas in relation to the writer’s purpose, subject, and audience. Emphasizes modes of written discourse and effective use of rhetorical principles.

W ENG 102 First-Year Composition. (3)

fall, spring, summer

Critical reading and writing; emphasizes strategies of academic discourse. Research paper required. Prerequisite with a grade of “C” (2.00) or higher: ENG 101.

W ENG 105 Advanced First-Year Composition. (3)

selected semesters

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.

W ENG 200 Critical Reading and Writing About Literature. (3)

selected semesters

Introduces the terminology, methods, and objectives of the study of literature, with practice in interpretation and evaluation. See ENG Note 1. Prerequisite: English major or minor.

General Studies: L/HU

W 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. See ENG Note 1.

W ENG 213 Introduction to the Study of Language. (3)

selected semesters

Language as code; phonetics, phonology, morphology, and syntax; the lexicon; language acquisition; sociolinguistics. See ENG Note 1.

W ENG 219 Newspaper Production. (3)

fall and spring

Students work on campus newspaper to learn basics of news and column writing, digital photography, and layout. Cross-listed as AMS 219. Credit is allowed for only ENG 219 or AMS 219. See ENG Note 1.

General Studies: L

W ENG 221 Survey of English Literature. (3)

fall, spring, summer

Medieval, Renaissance, and 18th-century literature. Emphasizes major writers and their works in their literary and historical contexts. See ENG Note 1.

General Studies: HU, H

W ENG 222 Survey of English Literature. (3)

fall, spring, summer

Romantic, Victorian, and 20th-century literature. Emphasizes major writers and their works in their literary and historical contexts. See ENG Note 1.

General Studies: HU, H

W ENG 241 American Literature. (3)

fall, spring, summer

From colonial times to the Civil War, including the growth of nationalism and romanticism. See ENG Note 1.

General Studies: HU

W ENG 242 American Literature. (3)

fall, spring, summer

From the Civil War to the present. Development of realism, naturalism, and modernism, and contemporary trends in prose and poetry. See ENG Note 1.

General Studies: HU

W ENG 301 Writing for the Professions. (3)

fall, spring, summer

Advanced practice in writing and editing expository prose. Primarily for preprofessional majors. See ENG Note 1.

General Studies: L

W 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. See ENG Note 1.

General Studies: HU

W ENG 311 Persuasive Writing. (3)

fall, spring, summer

Advanced writing course that focuses on persuasive writing for diverse audiences. See ENG Note 1.

General Studies: L

W ENG 316 Writing and Arguing Politics. (3)

selected semesters

Logical argumentation and writing, enabling students to analyze and construct arguments. See ENG Note 1.

General Studies: L

W ENG 317 Cross-Cultural Writing. (3)

fall

Cultural differences and their impact on writing and/or their role in miscommunication and misinterpretation. See ENG Note 1.

General Studies: L/HU, G

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See “General Studies,” page 93.

NEW COLLEGE OF INTERDISCIPLINARY ARTS AND SCIENCES

W ENG 323 Rhetoric and Grammar. (3)

fall, spring, summer

Practical course taught in the computer lab. Emphasizes rhetorical strategies and grammar for writers. See ENG Note 1.

General Studies: L

W ENG 337 Major American Novels. (3)

selected semesters

Novels from the 19th century to the present studied in their historical and cultural contexts. See ENG Note 1.

General Studies: L/HU

W 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. Credit is allowed for only ENG 352 or AMS 322. See ENG Note 1.

General Studies: L/HU

W ENG 353 African American Literature: Beginnings through the Harlem Renaissance. (3)

selected semesters

Focuses on the history of African-American literature through the Harlem Renaissance, as exemplified in selected slave narratives, poems, and fiction. See ENG Note 1.

General Studies: L/HU, C

W ENG 354 African American Literature: Harlem Renaissance to the Present. (3)

selected semesters

Examines the literary productions of African-Americans from the Harlem Renaissance (about 1920) to the present focusing on fiction, poetry, drama, and essays. See ENG Note 1.

General Studies: L/HU, C

W ENG 359 American Indian Literature. (3)

selected semesters

Selected oral traditions of American Indians and their influences on contemporary Native American literary works. See ENG Note 1.

General Studies: L/HU, C

W ENG 360 Western American Literature. (3)

selected semesters

Critical examination of ideas and traditions of the literature of the western United States. See ENG Note 1.

General Studies: L/HU

W ENG 363 Chicano Literature. (3)

selected semesters

Development of Chicano literature; study of genres and themes; attention to literary antecedents. See ENG Note 1.

General Studies: HU, C

W ENG 365 History of Film. (3)

selected semesters

Emphasizes American film, with some study of European film. 3 hours lecture, 4 hours of screening. See ENG Note 1.

General Studies: HU

W ENG 369 Science Fiction and Fantasy. (3)

selected semesters

Development of science fiction and fantasy literature. May be repeated for credit when topics vary. See ENG Note 1.

General Studies: HU

W ENG 386 American Gothic. (3)

selected semesters

The development of modern American Gothic as a literary form from Poe to Oates. Emphasizes the short story. See ENG Note 1.

General Studies: L/HU

W ENG 394 Special Topics. (1–4)

selected semesters

Topics may include the following:

- American Culture. (3)
- Comedy Writing. (1)
- Desktop Publishing. (1)
- Magazine Publication. (1)
- Research and Writing. (3)
- Scriptwriting. (1)
- Writing. (3)

See ENG Note 1.

W ENG 400 History of Literary Criticism. (3)

fall and spring

Major critics and critical traditions in the western world. Prerequisite: 6 hours of literature or instructor approval. See ENG Note 1.

General Studies: L/HU, H

W ENG 412 Writing for Publication. (3)

fall and spring

Lectures and conferences concerning techniques of writing for publication. May be repeated for credit when topics vary. See ENG Note 1.

W ENG 415 Medieval Literature. (3)

selected semesters

Medieval English and continental literature in translation, emphasizing cultural and intellectual backgrounds. May be repeated for credit when topics vary. See ENG Note 1.

General Studies: HU

W ENG 418 European Renaissance Literature. (3)

selected semesters

Prose, poetry, and drama of Europe and England from 1492-1660 with an emphasis on cultural history. See ENG Note 1.

General Studies: L/HU

W ENG 420 Multicultural Autobiographies. (3)

fall and spring

Examines the human experience via autobiographies and personal narratives. Multicultural, literary, and psychological perspectives on individual lives. Cross-listed as IAS 420. Credit is allowed for only ENG 420 or IAS 420. See ENG Note 1.

General Studies: L/HU, C

W ENG 425 Romantic Poetry. (3)

selected semesters

Poetry of Wordsworth, Coleridge, Shelley, Keats, and Byron. May be repeated for credit when topics vary. See ENG Note 1.

W ENG 431 Whitman and Dickinson. (3)

selected semesters

Evaluates the 19th-century American Literary Renaissance through the specialized examination of its poetry and authors in their historical context. See ENG Note 1.

General Studies: HU

W 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. See ENG Note 1.

General Studies: HU

W ENG 433 Southern Writers. (3)

selected semesters

Analyzes Southern culture through the eyes of the region's novelists, short story writers, poets, filmmakers, photographers, and song writers. See ENG Note 1.

W ENG 437 The American Novel, 1900–1960. (3)

selected semesters

Developments in theory and practice of major novelists. See ENG Note 1.

General Studies: L/HU

W ENG 438 American Novel since 1960. (3)

selected semesters

Major novelists of the period. Developments in theory and practice. See ENG Note 1.

General Studies: L/HU

W ENG 450 The British Novel. (3)

selected semesters

Focuses on the British novel from the 18th century to the present. See ENG Note 1.

General Studies: HU

W ENG 454 Gender and Literature. (3)

once a year

Focuses on the representation of gender in literature. See ENG Note 1.

General Studies: L/HU

W 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. See ENG Note 1.

General Studies: HU

DEPARTMENT OF LANGUAGE, CULTURES, AND HISTORY

W ENG 460 Ethnic Women Writers. (3)

fall

Concentrates on selected women writers of the U.S. who are Native American, African American, Hispanic, and Asian-American. Cross-listed as WST 467. Credit is allowed for only ENG 460 or WST 467. See ENG Note 1.

General Studies: L/HU, C

W ENG 462 Africana Literature. (3)

selected semesters

Focuses on the literature of the African Diaspora, including texts from the Caribbean, the Americas, and Africa. May be repeated for credit when topics vary. See ENG Note 1.

General Studies: HU, G

W ENG 463 African-American Literature. (3)

once a year

Thematic and cultural study of African-American literature. See ENG Note 1.

General Studies: HU, C

W ENG 465 History of Film. (3)

selected semesters

Emphasizes American film, with some study of European film. 3 hours lecture, 4 hours of screening. See ENG Note 1.

General Studies: HU

W ENG 473 Shakespeare. (3)

fall and spring

Selection of comedies, histories, and tragedies. See ENG Note 1.

W ENG 476 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. See ENG Note 1.

General Studies: L/SB/HU, C

W ENG 477 World Literature. (3)

spring

Introduces world literature, mostly outside the United States and England. Cross-listed as IAS 477. Credit is allowed for only ENG 477 or IAS 477. See ENG Note 1.

General Studies: L/HU, G

W ENG 478 Modernist Literature. (3)

selected semesters

Focuses on the international nature of Modernist literature. Authors studied may include Proust, Kafka, Joyce, and Woolf. See ENG Note 1.

General Studies: HU

W ENG 479 International Postmodern Literature. (3)

selected semesters

Focuses on the international nature of Postmodernist literature. Authors studied may include Rushdie, Garcia Marquez, and Toni Morrison. See ENG Note 1.

General Studies: HU, G

W ENG 494 Special Topics. (1–4)

selected semesters

Topics may include the following:

- HTML Creating a Web Page. (1)
- Layout and Design. (1)
- Selling Your Writing. (1)
- Writing Practicum. (3)

See ENG Note 1.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

HISTORY (HIS)

W HIS 101 Western Civilization. (3)

fall

Traces origin and development of Western societies and institutions from the Renaissance and Reformation through Age of Enlightenment.

General Studies: SB, H

W HIS 102 Western Civilization. (3)

spring

Traces origin and development of Western societies and institutions from the French Revolution to the present.

General Studies: SB, G, H

W HIS 103 The United States. (3)

fall

Growth of the Republic from colonial times through the Civil War period.

General Studies: SB, H

W HIS 104 The United States. (3)

spring

Growth of the Republic from the Civil War period to the present day.

General Studies: SB, H

W HIS 300 Historical Methods. (3)

fall

Introduces the methodological and theoretical tools of history as a scholarly discipline for History majors. Prerequisite: ENG 102 or 105.

General Studies: L, H

W 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. Prerequisite: ENG 101 or 105.

General Studies: L

W HIS 303 American Cultural History I. (3)

fall

First of a two-part survey of American culture, broadly defined as historically transmitted patterns of meaning expressed in symbolic forms, 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. Credit is allowed for only HIS 303 or AMS 320.

General Studies: SB, H

W HIS 304 American Cultural History II. (3)

spring

Second of a two-part survey of American culture, broadly defined as historically transmitted patterns of meaning expressed in symbolic forms, including ideas, ideals, the arts, and social and economic standards from the age of industrialism and modern America. Cross-listed as AMS 321. Credit is allowed for only HIS 304 or AMS 321.

General Studies: SB, H

W HIS 305 History of American Systems to 1865. (3)

fall

First of a two-part survey of political, legal, and economic institutions, placed in the context of the nation's colonial background and early national period. Cross-listed as AMS 310. Credit is allowed for only HIS 305 or AMS 310. Prerequisite: ENG 101 or 105.

General Studies: L, C, H

W HIS 306 History of American Systems Since 1865. (3)

spring

Second in a two-part survey of political, legal, and economic institutions, placed in the context of a dynamic industrialist capitalist society, from the age of industrialism and modern America. Cross-listed as AMS 311. Credit is allowed for only HIS 306 or AMS 311. Prerequisite: ENG 101 or 105.

General Studies: H

W 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

W HIS 331 American Indians. (3)

fall

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

W HIS 340 American Military History. (3)

selected semesters

Studies the role of the military in American life during war and peace from colonial times to the present day.

General Studies: SB, H

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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W HIS 355 World History to 1500. (3)

fall

Studies world history to 1500 with emphasis on the connection between regional history and the growth of world civilization.

General Studies: G, H

W HIS 356 World History Since 1500. (3)

spring

Surveys modern European history (1789-present); emphasizes European relations with the non-European world.

General Studies: G, H

W HIS 363 Reformation. (3)

fall

The Protestant and Catholic Reformations in the 16th century.

Prerequisite: ENG 101 or 105.

W HIS 377 Women in Europe, 1700–Present. (3)

selected semesters

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

W HIS 378 20th Century Europe at War, 1900–1945. (3)

fall

Surveys the history of the World Wars in Europe, emphasizing the relationship among military developments, culture, and society.

General Studies: H

W HIS 394 Special Topics in History. (3)

fall and spring

Full description of topics for any semester is available in the department office. May be repeated for credit.

W HIS 406 Civil War and Reconstruction. (3)

spring

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

W HIS 411 Contemporary America. (3)

fall

The United States from 1945 to the present. Prerequisite: ENG 101 or 105.

General Studies: L/SB, H

W HIS 419 Topics in American Historical Periods. (3)

spring

Focuses on specific periods in American history. May be repeated for credit when topics vary.

W HIS 423 Mexico. (3)

selected semesters

Political, economic, social, and cultural developments from 1810 to the present.

General Studies: SB, H

W HIS 424 The Hispanic Southwest. (3)

fall

Development of the Southwest in the Spanish and Mexican periods to 1848.

General Studies: SB

W HIS 429 Topics in American Regional History. (3)

fall

Focuses on the history of specific geographic regions within North America. May be repeated for credit when topics vary.

W HIS 430 20th Century Chicano/a History. (3)

selected semesters

Historical development of the Chicano community in the 20th century.

W HIS 431 Social History of American Women. (3)

fall

Examines 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: SB, C, H

W HIS 439 Topics in American Race, Class, Gender, and Ethnicity. (3)

fall and spring

Emphasizes the use of race, class, gender, and/or ethnicity as categories of historical analysis. May be repeated when topics vary.

W HIS 443 Constitutional History of the United States. (3)

spring

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

General Studies: SB, H

W HIS 444 American Urban History. (3)

spring

The history of the city in American life from the 19th century to the present.

General Studies: SB, H

W HIS 449 Topics in American Themes and Issues. (3)

fall

Focuses on significant themes and issues in American history. May be repeated for credit when topics vary.

W 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.

W HIS 454 History of Genocide. (3)

spring

Examines the individuals and institutions responsible for the most infamous episodes of state-sanctioned violence in the 20th century.

General Studies: G, H

W HIS 462 The African Diaspora. (3)

spring

Enforced dispersal of Africans during the Slave Trade emphasizing its causes, effects on Africa, and the enslaved in the Americas.

General Studies: G, H

W HIS 465 Origins of Racism. (3)

spring

Studies the history of racial discrimination with emphasis on the connection among race, ideology, and the global economy.

General Studies: G, H

W HIS 469 Modern Germany. (3)

spring

Germany since 1840.

General Studies: SB, G, H

W HIS 475 Topics in European Regional/National History. (3)

selected semesters

Focuses on the history of specific geographic regions or nations in Europe. May be repeated for credit when topics vary.

W HIS 482 Topics in European Gender, Ethnicity, and Class. (3)

selected semesters

Emphasizes the use of gender, ethnicity, and/or class as categories of historical analysis. May be repeated for credit when topics vary.

W HIS 487 Topics in European Themes and Issues. (3)

fall

Focuses on significant themes and issues in European history. May be repeated for credit when topics vary.

W HIS 498 History Pro-Seminar. (3)

fall and spring

Introduces historical research and writing. Writing-intensive course related to the development of research skills and writing tools used by historians. Required course for majors on topic selected by instructor.

Prerequisite: ENG 101 or 105.

General Studies: L

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

SPANISH (SPA)

For more SPA courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W SPA 101 Elementary Spanish. (4)

fall and spring

Fundamentals of the language. Emphasizes listening, speaking, reading, and writing. Not open to students with credit in SPA 111. 4 hours lecture, 1 hour lab.

W SPA 102 Elementary Spanish. (4)

fall and spring

See SPA 101. Not open to students with credit in SPA 111.

Prerequisite: SPA 101 (or its equivalent).

W 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.

W SPA 201 Intermediate Spanish. (4)

fall and spring

Continuation of fundamentals. Emphasizes the development of the skills of reading, listening comprehension, speaking, writing, and culture. 4 hours lecture, 1 hour lab. Prerequisite: SPA 102 (or its equivalent).

W SPA 202 Intermediate Spanish. (4)

fall and spring

See SPA 201. Prerequisite: SPA 201 (or its equivalent).

W 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.

W SPA 311 Spanish Conversation. (3)

fall

Designed primarily for monitors to promote vocabulary building and communicative expression in Spanish through discussions based on cultural readings. Prerequisite: SPA 202 (or its equivalent).

W SPA 312 Spanish Conversation. (3)

spring

See SPA 311. Prerequisite: SPA 202 (or its equivalent).

W SPA 313 Spanish Conversation and Composition. (3)

fall

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 its equivalent).

General Studies: G

W SPA 314 Spanish Conversation and Composition. (3)

spring

See SPA 313. Prerequisite: SPA 202 (or its equivalent).

General Studies: G

W SPA 325 Introduction to Hispanic Literature. (3)

selected semesters

Critical approach to and analysis of literary types, including poetry, drama, short story, and novel. Required of all majors. Prerequisite: SPA 202.

W 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

W SPA 413 Advanced Spanish Grammar. (3)

selected semesters

Intensive analysis of the Spanish language. Required of teaching majors.

Prerequisite: SPA 314 or instructor approval.

W SPA 425 Spanish Literature. (3)

selected semesters

Surveys Spanish literature from its beginning to the present.

Prerequisite: SPA 325.

W SPA 426 Spanish Literature. (3)

selected semesters

Surveys Spanish literature from 1700 to the present. Prerequisite:

SPA 325.

General Studies: HU

W SPA 427 Spanish-American Literature. (3)

selected semesters

Surveys major works, figures, and movements from Colonial period to 1880.

Prerequisite: SPA 325.

W SPA 428 Spanish-American Literature. (3)

selected semesters

Surveys major works, figures, and movements from 1880 to the present.

Prerequisite: SPA 325.

W 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

W 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

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

WRITING ACROSS THE CURRICULUM (WAC)

For more WAC courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W WAC 101 Introduction to Academic Writing. (3)

fall and spring

Combines classroom and supplemental instruction to teach academic genres of writing, including definition, summary, and analysis.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

**Department of Mathematical Sciences
and Applied Computing**

www.west.asu.edu/msac

602/543-4223

CLCC 250

Roger Berger, Chair

Professor: Berger

Associate Professors: Borrer, Dietrich

Assistant Professors: Wang, Zhang

Lecturers: Inman, Vakilzadeh

The Department of Mathematical Sciences and Applied Computing has responsibility for mathematics, statistics, and the BS in Applied Computing. The department offers a minor in mathematics and the academic specialization in mathematics for Secondary Education majors.

APPLIED COMPUTING—BS

Nature of the Program

The information revolution, which has produced the fastest growing economic sector and related demand for jobs, has created the need for a new kind of professional: someone who is skilled in locating, creating, organizing, filtering,

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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manipulating, presenting, and disseminating information. The mission of the BS in Applied Computing is to educate such knowledge-work professionals.

The program prepares students to understand how to collect and analyze data; allow for efficient, effective, and ethical user interaction with systems; employ management skills to direct the development and deployment of technology systems; engage in creative efforts; and develop and assure the quality of information and its value to those who will use it.

The Applied Computing program has both a technical component, concerned with the design and use of appropriate systems and technologies, and a social sciences component, concerned with understanding how people seek, obtain, evaluate, use, and categorize information. It rests on a solid foundation of work in mathematics, technology, and humanities and social sciences and offers a choice of concentrations in database management, networks, or digital media and design. Technical, communication, and creative skills couple with a significant internship to provide experience in applying technical expertise and creative abilities to information processes, systems, and contexts.

Career Outlook

Students who complete a BS in Applied Computing are prepared to integrate technology with human activities and to respond to global changes, solve problems, and create and manage the technological production of information and creative products. Core information technology industries are among the fastest growing sectors in the U.S. economy. Graduates of the Applied Computing program will find employment opportunities with corporations and businesses, nonprofit and government agencies, digital arts media industries, and in the academic world.

Major Requirements

The Applied Computing major consists of 60 to 61 semester hours with a grade of “C” (2.00) or higher.

Math Foundation/Core

MAT 210 Brief Calculus <i>MA</i>	3
MAT 243 Discrete Mathematical Structures.....	3
STP 300 Introduction to Probability.....	3
Total	9

Applied Computing Foundation/Core

ACO 101 Introduction to Computer Science <i>CS</i>	3
ACO 102 Principles of Computer Science <i>CS</i>	3
ACO 201 Data Structures and Algorithms <i>CS</i>	3
ACO 210 Introduction to Systems Programming <i>CS</i>	3
ACO 220 Introduction to Database Systems <i>CS</i>	3
Total	15
Total foundation/core.....	24

Concentration

Select one of the following concentrations, and prepare a program of study in consultation with a program advisor.

Digital Media and Graphic Design

IAP 361 Digital Editing and Media Literacy <i>CS</i>	3
IAP 365 Digital Interactivity.....	3
IAP 368 Digital Graphic Technologies.....	3
IAP 466 Digital Interactivity, Advanced.....	3

IAP 468 Digital Graphic Applications.....	3
IAP 484 Internship.....	6
Total	21

Database Systems

ACO 320 Database Systems and Transaction Processing.....	3
ACO 420 Object Databases.....	3
ACO 421 Data Mining and Warehousing.....	3
ACO 422 XML and Databases.....	3
ACO 484 Internship.....	6
or ACO 499 Individualized Instruction (6)	
GCU 373 Introduction to Geographic Information Science <i>SG</i>	4
Total	22

Network and Distributed Processing

For more information, contact the department.

Liberal Arts Cluster

Choose four liberal arts courses*.....	12
Choose one of the following ethics/diversity courses.....	3
COM 457 New Media (3)	
IAP 464 Media and Diversity (3)	
IAS 406 Moral Dilemmas <i>L/HU</i> (3)	
Program total.....	60–61

* The liberal arts courses must be chosen in consultation with an advisor, and at least nine semester hours must be upper-division courses.

Internship and/or Individualized Instruction. The internship and/or individualized instruction experience is an integral component of the program. Six semester hours of Internship (484) and/or Individualized Instruction (499) is required. At the close of the program, the student must submit a significant paper documenting the experience and make a formal presentation.

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 business, economics, and science. 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 are preparing 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 Mathematical Sciences and Applied Computing Department.

Required Courses:

MAT 270 Calculus with Analytic Geometry I <i>MA</i>	4
MAT 271 Calculus with Analytic Geometry II <i>MA</i>	4
MAT 272 Calculus with Analytic Geometry III <i>MA</i>	4
MAT 300 Mathematical Structures.....	3
MAT 342 Linear Algebra.....	3
Choose three electives from the following courses*.....	9
MAT 310 Introduction to Geometry (3)	

DEPARTMENT OF MATHEMATICAL SCIENCES AND APPLIED COMPUTING

MAT 371 Advanced Calculus I (3)	
MAT 411 History and Philosophy of Mathematics <i>HU, H</i> (3)	
MAT 443 Abstract Algebra (3)	
MAT 445 Theory of Numbers (3)	
STP 420 Introductory Applied Statistics <i>CS</i> (3)	
Total	27

* Select three of these courses, or other approved course, in consultation with a departmental advisor.

SECONDARY EDUCATION—BAE

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 Teacher Education and Leadership” section of this catalog) and 36 semester hours in mathematics, of which 21 must be upper division.

Lower-Division Required Courses

Choose one of the following courses	
ACO 101 Introduction to Computer Science <i>CS</i> (3)	
CIS 200 Computer Applications and Technology <i>CS</i> (3)	
M CSE 110 Principles of Programming with Java <i>CS</i> (3)	
CSE 180 Computer Literacy <i>CS</i> (3)	
M CSE 181 Applied Problem Solving with Visual BASIC <i>CS</i> (3)	
MAT 270 Calculus with Analytic Geometry I <i>MA</i>	4
MAT 271 Calculus with Analytic Geometry II <i>MA</i>	4
MAT 272 Calculus with Analytic Geometry III <i>MA</i>	4
Total	15

Upper-Division Required Courses

MAT 300 Mathematical Structures	3
MAT 310 Introduction to Geometry	3
MAT 342 Linear Algebra	3
MAT 371 Advanced Calculus I	3
MAT 411 History and Philosophy of Mathematics <i>HU, H</i>	3
MAT 443 Abstract Algebra	3
or MAT 445 Theory of Numbers (3)	
STP 420 Introductory Applied Statistics <i>CS</i>	3
Total	21
Program total	36

APPLIED COMPUTING (ACO)

W ACO 100 Overview of Applied Computing. (3)

fall and spring
Internet and HTML, XML, databases, networks and distributed processing, digital media and graphic design. Opportunities, professionalism, and ethics.
General Studies: CS

W ACO 101 Introduction to Computer Science. (3)

fall and spring
Concepts of problem solving, structured and object-oriented programming in Java, fundamental algorithms, computer system concepts. Social and ethical responsibilities. Prerequisite: MAT 117.
General Studies: CS

W ACO 102 Principles of Computer Science. (3)

fall and spring
Issues and concepts throughout computer science, including software development, data organization, machine architecture, algorithmic machines, and ethics in computing. Java programming. Fee. Prerequisite: ACO 101.
General Studies: CS

W ACO 201 Data Structures and Algorithms. (3)

fall
Static and dynamic data structures, recursive and iterative sorting and searching, object-oriented design and programming, software design models and implementation/testing strategies, professional responsibilities. Fee. Prerequisites: ACO 102; MAT 210.
General Studies: CS

W ACO 210 Introduction to Systems Programming. (3)

spring
Introduces operating systems as resource managers, processes, threads, memory allocation, file systems, protection, system calls, application program interfaces. Fee. Prerequisite: ACO 201.
General Studies: CS

W ACO 220 Introduction to Database Systems. (3)

spring
Introduces database management systems concepts. Entity-relationship and relational data models. Database design. Relational algebra, calculus, and SQL query languages. Query optimization. Fee. Prerequisites: ACO 201; MAT 243.
General Studies: CS

W ACO 320 Database Systems and Transaction Processing. (3)

fall
Relational database normalization theory, stored procedures, triggers, and call-level interface. Data-centric XML. Transaction processing in centralized and distributed databases. Security. Fee. Prerequisite: ACO 220.

W ACO 420 Object Databases. (3)

spring
Object-oriented conceptual modeling, object-oriented databases, object-relational databases, applications. Fee. Prerequisite: ACO 320.

W ACO 421 Data Mining and Warehousing. (3)

fall
Introduces data mining from a database perspective, including classification, clustering, and association rules. Data warehousing methodologies. Fee. Prerequisite: ACO 320.

W ACO 422 XML and Databases. (3)

spring
XML data model, schema specification and validation, querying, storage, indexing, and current research topics. Fee. Prerequisite: ACO 320.

W ACO 484 Internship. (1–12)

selected semesters

W ACO 499 Individualized Instruction. (1–3)

selected semesters

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see “Omnibus Courses,” page 63.

MATHEMATICS (MAT)

For more MAT courses, see the “Course Prefixes” table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W MAT 106 Intermediate Algebra. (3)

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

W MAT 117 College Algebra. (3)

fall and spring
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.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See “General Studies,” page 93.

NEW COLLEGE OF INTERDISCIPLINARY ARTS AND SCIENCES

W MAT 119 Finite Mathematics. (3)

fall and spring

Topics from linear algebra, linear programming, combinatorics, probability, and mathematics of finance. Prerequisite: MAT 117 (or its equivalent).

General Studies: MA

W MAT 142 College Mathematics. (3)

fall and spring

Applies 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

W MAT 170 Precalculus. (3)

fall and spring

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" (3.00) or higher: MAT 106. Prerequisite with a grade of "C" (2.00) or higher: MAT 117 or two years of high school algebra.

General Studies: MA

W MAT 210 Brief Calculus. (3)

fall and spring

Differential and integral calculus of elementary functions with applications. Not open to students with credit in MAT 260 or 270 or 290. Prerequisite: MAT 117 (or its equivalent).

General Studies: MA

W MAT 243 Discrete Mathematical Structures. (3)

fall

Logic, sets, functions, elementary number theory and combinatorics, recursive algorithms, and mathematical reasoning, including induction. Emphasizes connections to computer science. Prerequisite: 1 semester of calculus or computer programming.

W 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. Prerequisite with a grade of "C" (2.00) or higher: MAT 170 or satisfactory score on placement examination.

General Studies: MA

W MAT 271 Calculus with Analytic Geometry II. (4)

selected semesters

Methods of integration; applies calculus, elements of analytic geometry, improper integrals, sequences, and series. Not open to students with credit in MAT 291. Prerequisite with a grade of "C" (2.00) or higher: MAT 270 (or its equivalent).

General Studies: MA

W 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" (2.00) or higher: MAT 271 (or its equivalent).

General Studies: MA

W MAT 300 Mathematical Structures. (3)

fall

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

W MAT 310 Introduction to Geometry. (3)

spring

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

W 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 its equivalent).

W MAT 371 Advanced Calculus I. (3)

fall

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

W 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 IAS 411. Credit is allowed for only MAT 411 or IAS 411.

General Studies: HU, H

W MAT 443 Abstract Algebra. (3)

spring

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

W MAT 445 Theory of Numbers. (3)

spring

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

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

STATISTICS AND PROBABILITY (STP)

For more STP courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W STP 220 Conceptual Statistics. (3)

fall and spring

Concepts and vocabulary needed to evaluate statistical reports on health, technology, and society. Aggressively emphasizes understanding over computation. Lecture, teamwork. Prerequisite: MAT 117 or 142.

General Studies: CS

W STP 226 Elements of Statistics. (3)

fall and spring

Basic concepts and methods of statistics, including descriptive statistics, significance tests, estimation, sampling, and correlation. Prerequisite: MAT 117 or 142.

General Studies: CS

W STP 300 Introduction to Probability. (3)

spring

Probability models and computations, joint and conditional distributions, moments, families of distribution, stochastic processes, simulation. Prerequisite: MAT 210.

W 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 its equivalent).

General Studies: CS

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Religious Studies Program
 602/543-6003
 FAB N281

Linda Stryker, Director

MINOR IN RELIGIOUS STUDIES

The minor in Religious Studies consists of 21 semester hours of religious studies course work, of which 18 must be upper-division hours. Fifteen semester hours of campus resident credit is required. Only courses in which the student earns a minimum grade of “C” (2.00) 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

Choose one from the following courses.....	3
AMS 417 Religious Traditions of the American Southwest C (3)	
REL 320 Religion in America HU, H (3)	
REL 321 Religion in America L/HU, H (3)	
REL 420 Religion in American Life and Thought (3)	
Choose two from the following courses	6
M ENG 424 Milton HU (3)	
HIS 363 Reformation (3)	
REL 305 Ritual, Symbol, and Myth (3)	
REL 390 Women and World Religions L/SB, G (3) or WST 390 Women and World Religions L/SB, G (3)	
REL 494 ST: Psychology of Religion (3) or AMS 494 ST: Psychology of Religion (3)	
REL 494 ST: Science and Religion (3) or IAS 494 ST: Science and Religion (3)	
Choose at least one special topics course ¹	3
Religious Studies Electives	
Choose three additional religious studies courses ²	9
Program total.....	21

¹ Select from the following prefixes: AMS, COM, IAS, REL, WST. Examples of topics may include Spiritual Narratives, Communication as Theology, Testimony in a Post-Metaphysical World, The Goddess Religions, and Gender and the Environment.

² These courses, or other approved courses, must be chosen in consultation with the director, and may include Internship (484) and/or Individual Instruction (499).

RELIGIOUS STUDIES (REL)

For more REL courses, see the “Course Prefixes” table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W REL 100 Religions of the World. (3)

fall
 Introduces the history of religious traditions of the world, including Buddhism, Christianity, Hinduism, Islam, Judaism, and others. Credit is allowed for only REL 100 or 200.
General Studies: HU, G

W REL 200 The Study of Religious Traditions. (3)

selected semesters
 Writing-intensive course introducing analytical skills necessary for understanding religious traditions. Beliefs, practices, and communities of several religious traditions of the world. Credit is allowed for only REL 200 or 100. Prerequisite: ENG 101 or 105.
General Studies: L/HU, G

W REL 201 Religion and the Modern World. (3)

selected semesters
 Introduces 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 101 or 105.
General Studies: L/HU

W REL 202 Religion and Popular Culture. (3)

selected semesters
 Explores various intersectors between religion and the popular media, including music, news, advertising, the visual arts, literature, performance, and film. Lecture, discussion.
General Studies: HU, C

W REL 203 Saints and Sinners: Explorations in Sacred Biography. (3)

selected semesters
 Compares the role of biography across religions to examine the process of categorizing people as saints or sinners. Lecture, discussion.
General Studies: HU, H

W REL 305 Ritual, Symbol, and Myth. (3)

fall and spring
 Ritual, symbol, and myth as types of religious expression, with examples selected from the nonliterate religions of the world. Prerequisite: ENG 101 or 105.

W REL 320 Religion in America. (3)

fall
 The emergence of religious ideas and institutions up to the Civil War.
General Studies: HU, H

W REL 321 Religion in America. (3)

spring
 The emergence of religious ideas and institutions from the Civil War to the present. Prerequisite: ENG 101 or 105.
General Studies: L/HU, H

W 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

W REL 420 Religion in American Life and Thought. (3)

fall
 The influence of religion on American society, culture, and ideas; the distinctive character of religion in America. Prerequisite: REL 321 recommended.

W REL 494 Special Topics. (1–4)

selected semesters
 Topics may include the following:

- Psychology of Religion. (3)
- Science and Religion. (3)

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see “Omnibus Courses,” page 63.

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See “General Studies,” page 93.

Department of Social and Behavioral Sciences

www.west.asu.edu/sbs

602/543-6058

FAB N250-1

Barbara Tinsley, Chair

Professors: Keil, Kirby, Mueller, Nández, Tinsley

Associate Professors: Ávalos, Burleson, Coon, Gutierrez, Koptiuch, Miller, Murphy Erfani, Robles, Vaughan

Assistant Professors: Anastasi, Cabrera, Champion, Glavac, Guevarra, Juris, McQuiston-Surrett, Plascencia, Simmons

Senior Lecturer: Wosinska

Lecturer: Ackroyd

The Department of Social and Behavioral Sciences offers students the opportunity to enroll in traditional social and behavioral science courses (anthropology, family studies, geography, political science, psychology, and sociology), as well as interdisciplinary courses. The faculty offers interdisciplinary Bachelor of Arts and Bachelor of Science degree programs in Social and Behavioral Sciences and Bachelor of Arts and Bachelor of Science degree programs in Political Science, Psychology, and Sociology.

SOCIAL AND BEHAVIORAL SCIENCES—BA AND BS

Nature of the Programs

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 more information, contact the department.

Career Outlook

The interdisciplinary degrees are an excellent means of creating a degree program that matches the individual's interests and fulfills many employers' expectations of a baccalaureate degree, namely that it should expose the student to a variety of 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 semester hours of required course work. Students must select one of two emphases: Interdisciplinary Social Sciences or Interdisciplinary Behavioral Sciences. Each emphasis consists of

1. required interdisciplinary core in theory and methodology;
2. cluster requirements; and
3. electives.

Interdisciplinary Social Sciences Emphasis for BA

Core Requirements for BA

SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences <i>SB</i>	3
SBS 301 Cultural Diversity <i>L/SB, C</i>	3
SBS 302 Qualitative Methods.....	3
SBS 303 Quantitative Methods (3)	
SBS 304 Social Statistics I <i>CS</i>	3
Total	12

Cluster Requirements for BA

Required Topics Courses

SBS 410 Topics in Identity/Difference	3
SBS 430 Topics in Power/Knowledge <i>SB</i>	3
SBS 450 Topics in Local/Global <i>SB, G</i>	3
Choose courses from the following clusters	9
Identity/Difference	
Power/Knowledge	
Local/Global	
Electives*	15
Total	45

* Choose elective courses with these prefixes: ASB, FAS, GCU, POL, PGS, SBS, or SOC.

Interdisciplinary Social Sciences Emphasis for BS

Core Requirements for BS

SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences <i>SB</i>	3
SBS 301 Cultural Diversity <i>L/SB, C</i>	3
SBS 302 Qualitative Methods.....	3
SBS 303 Quantitative Methods.....	3

SBS 304 Social Statistics I <i>CS</i>	3
SBS 404 Social Statistics II: Multivariate Analysis <i>CS</i>	3
Total	18

Cluster Requirements for BS

Required Topics Courses

SBS 410 Topics in Identity/Difference	3
SBS 430 Topics in Power/Knowledge <i>SB</i>	3
SBS 450 Topics in Local/Global <i>SB, G</i>	3
Choose courses from the following clusters	9
Identity/Difference	
Power/Knowledge	
Local/Global	
Electives*	9
Total	45

* Choose elective courses with these prefixes: ASB, FAS, GCU, POL, PGS, SBS, or SOC.

Interdisciplinary Behavioral Sciences Emphasis for BA

Core Requirements for BA

SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences <i>SB</i>	3
SBS 302 Qualitative Methods	3
SBS 303 Quantitative Methods	3
SBS 304 Social Statistics I <i>CS</i>	3
C or G awareness course ¹	3

Cluster Requirements for BA

Required Topics Courses

Choose courses from each cluster as indicated	18
Biological foundations (6)	
The individual and the family (6)	
The individual and the group (6)	
Electives ²	12
Total	45

¹ Choose courses from the department.

² Choose elective courses with these prefixes: ASB, FAS, GCU, POL, PGS, SBS, or SOC.

Interdisciplinary Behavioral Sciences Emphasis for BS

Core Requirements for BS

SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences <i>SB</i>	3
SBS 302 Qualitative Methods	3
SBS 303 Quantitative Methods	3
SBS 304 Social Statistics I <i>CS</i>	3
SBS 404 Social Statistics II: Multivariate Analysis <i>CS</i>	3
C or G awareness course ¹	3

Cluster Requirements for BS

Required Topics Courses

Choose courses from each cluster as indicated	15
Biological foundations (9)	
The individual and the family (3)	
The individual and the group (3)	
Electives*	12
Total	45

¹ Choose courses from the department.

² Choose elective courses with these prefixes: ASB, FAS, GCU, POL, PGS, SBS, or SOC.

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" (2.00) or higher is required of all substitutions. The student may elect to combine options (1) up to 12 semester hours of lower-division courses in any of the social sciences for the ISS emphasis, or the behavioral sciences for the IBS emphasis; or (2) up to six semester hours of upper-division courses taken in related fields outside the SBS department; or (3) Senior Thesis—a two-course sequence, six semester hours: SBS 490 and 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 is posted on the transcript with the notation "with Senior thesis."

Minor in Social and Behavioral Sciences

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

The minor consists of 18 semester hours, at least 12 semester hours of which must be in upper-division courses. All courses must be completed with a minimum grade of "C" (2.00). 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.

Requirements

SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences <i>SB</i>	3
SBS 302 Qualitative Methods	3
or SBS 303 Quantitative Methods (3)	
Electives*	12

* Choose courses from at least two fields of social and behavioral sciences, including SBS and excluding internships or individualized instruction.

POLITICAL SCIENCE—BA AND BS

Nature of the Program

The Political Science degree program is designed to help students gain an understanding of theory, practice and policy underlying political processes locally, nationally and internationally, as well as to train students in research skills necessary for the analysis of complex sociopolitical issues locally and globally. The program strives to meet these goals by offering students learner-centered course work in political theory, American political institutions, and international relations and world affairs. These goals are accomplished by offering a flexible program of course work focusing on international, urban, and race/ethnic sociopolitical areas, internships, and service-learning/action research opportunities. Under the direction of faculty, students throughout the degree program focus on intellectual and

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

NEW COLLEGE OF INTERDISCIPLINARY ARTS AND SCIENCES

concrete policy issues in the greater Phoenix metropolitan area, Arizona, the Arizona-Mexico borderlands, the Americas, and the world.

Career Outlook

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, urban planning, or in professional schools. The baccalaureate degree in Political Science is also a good precursor to staff, manager, or policy analyst positions in local, state, and federal government. Some graduates work in the U.S. Foreign Service; as policy analysts/aides in Congress or in state legislatures; some are elected to those bodies. Alternate careers can be found in linking business interests and legislators. In addition, a Political Science degree is a recognized qualification for many careers in business (for profit and nonprofit) and industry, particularly as firms become more global in scope. Some graduates may work in binational, cross-border positions linking U.S. and Mexican businesses, Arizona-Sonora local government, or local community groups on both sides of the border. Some students view a degree in Political Science as a valuable gateway to law school; many use the degree as a basis for further study in such applied fields as urban affairs/urban and regional planning, public administration, public policy, or community development.

Major Requirements

Bachelor of Arts. The Bachelor of Arts degree in Political Science consists of 42 semester hours, of which 12 are core requirements, 18 are political science electives, and 12 are electives in related fields or in POL internships. For the BA, at least 15 semester hours in political science must be in upper-division courses.

Required Core

POL 101 Political Ideologies <i>SB</i>	3
or POL 340 Political Theory <i>SB/HU</i> (3)	
POL 110 Government and Politics <i>SB</i>	3
or POL 310 American National Government: Ideas and Institutions <i>SB, H</i> (3)	
POL 160 Global Politics <i>SB, G</i>	3
or POL 360 World Politics Theory <i>SB, G</i> (3)	
SBS 302 Qualitative Methods	3
or SBS 303 Quantitative Methods (3)	
Political science electives ¹	18
Electives in internships and related fields ²	12

¹ Electives exclude POL internships.

² Choices include POL 484 Internship (six semester hours maximum), or courses from anthropology, communication studies, criminal justice and criminology, economics, geography, history, psychology, social and behavioral sciences, sociology, and women's studies, or other courses approved by the departmental advisor.

Bachelor of Science. The Bachelor of Science degree in Political Science consists of 48 semester hours, including all of the core requirements and electives listed for the BA degree. Six additional semester hours are required for the BS degree, including three semester hours in political sci-

ence and three semester hours in SBS 304 Social Statistics I (CS). For the BS, at least 21 semester hours in political science must be in upper-division courses.

Minor in Political Science

The minor in Political Science consists of 18 semester hours in POL courses, 12 of which must be in upper-division courses.

Minor Requirements

Core Courses (Minimum of Three Upper-Division Hours)

POL 101 Political Ideologies <i>SB</i>	3
or POL 340 Political Theory <i>SB/HU</i> (3)	
POL 110 Government and Politics <i>SB</i>	3
or POL 310 American National Government: Ideas and Institutions <i>SB, H</i> (3)	
POL 160 Global Politics <i>SB, G</i>	3
or POL 360 World Politics Theory <i>SB, G</i> (3)	
Political science electives*	9

* A maximum of three semester hours of internship and three semester hours of individualized instruction may be used to fulfill requirements.

PSYCHOLOGY—BA AND BS

Nature of the Program

Psychology is the scientific study of the behavior and mental processes of individuals and groups. The West campus program provides a diverse curriculum of basic and applied courses that cover multiple perspectives within the 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, cognitive neuroscience, 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 semester hours of related course work, including at least 15 upper division semester hours. Required course work in the major, or the equivalent, must be passed with a minimum grade of "C" (2.00). Psychology

internships may not be used to fulfill psychology credit requirements; however, a maximum of six semester hours may be applied toward the related course work requirement. No more than a total of three semester hours in PGS 399 Supervised Research or PGS/PSY 499 Individualized Instruction may be used to complete the major requirements.

Required Courses

Lower-Division Required Courses

PGS 101 Introduction to Psychology <i>SB</i>	3
PSY 230 Introduction to Statistics <i>CS</i>	3
PSY 290 Research Methods <i>SG</i>	4

Upper-Division Required Psychology Courses

Choose one from the following courses.....	3
PGS 315 Personality Theory and Research <i>SB</i> (3)	
PGS 341 Developmental Psychology <i>SB</i> (3)	
PGS 350 Social Psychology <i>SB</i> (3)	
Choose one from the following courses.....	3
PSY 323 Sensation and Perception (3)	
PSY 324 Memory and Cognition <i>SB</i> (3)	
PSY 325 Physiological Psychology (3)	

Additional Required Psychology Courses

One additional upper-division PSY course (excluding PSY 394, 494, and 499).....	3
Two additional upper-division psychology courses (PGS or PSY).....	6
Two additional psychology courses (excluding PGS 270).....	6

Related Course Work Requirements

Choose courses related to psychology that are approved by an advisor and include one of the following courses18
 W CSE 180 Computer Literacy *CS* (3)
 M CSE 185 Internet and the World Wide Web (3)

For the Bachelor of Arts in Psychology

MAT 119 Finite Mathematics *MA* (3)
 or higher-level math course

For the Bachelor of Science in Psychology*

MAT 210 Brief Calculus *MA* (3)
 One life science lab course from biology, life sciences, microbiology, or zoology (3)
 One physical science lab course from astronomy, chemistry, geology, or physics (3)

* The lab science courses are taken to satisfy the BA and the BS requirements (including PSY 290) are in addition to the lab science courses used to meet the University General Studies requirement.

Minor in Psychology

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

Lower-Division Required Courses

PGS 101 Introduction to Psychology <i>SB</i>	3
PSY 230 Introduction to Statistics <i>CS</i>	3
PSY 290 Research Methods <i>SG</i>	4

Upper-Division Required Courses

Choose one from the following courses.....	3
PGS 315 Personality Theory and Research <i>SB</i> (3)	
PGS 341 Developmental Psychology <i>SB</i> (3)	
PGS 350 Social Psychology <i>SB</i> (3)	
Choose one from the following courses.....	3

PSY 323 Sensation and Perception (3)	
PSY 324 Memory and Cognition <i>SB</i> (3)	
PSY 325 Physiological Psychology (3)	
PGS or PSY upper-division electives.....	6
Total	22

A maximum of three semester 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 with prior approval of the psychology advisor. PGS 484 Internship may be taken for elective credit only. All courses must be passed with a minimum grade of “C” (2.00) or higher.

SOCIOLOGY—BA AND BS

Nature of the Program

The Sociology program provides students with an understanding of theory, practice, and policy underlying issues of social change and of inequality and diversity from multiple perspectives, including race/ethnicity, gender, economic position, age, geographic location, and position in the global political economy. The student majoring in sociology will learn how it enhances one’s understanding of social realities and institutions at local, national, and international levels, and how sociology contributes to the other social sciences and to the humanities. Students gain a basic understanding of the assumptions underlying the discipline of sociology and develop the research skills necessary for analysis of complex social issues. These objectives are met by offering a flexible program and by providing the student with 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 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 to 33 must be in SBS or SOC courses and 12 to 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 semester hours must include:

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See “General Studies,” page 93.

BA in Sociology

Required Core for the BA

SBS 302 Qualitative Methods	3
or SBS 303 Quantitative Methods (3)	
SBS 304 Social Statistics I CS	3
SOC 101 Introductory Sociology <i>SB</i>	3
or SOC 301 Principles of Sociology <i>SB</i> (3)	
SOC 486 Contemporary Theory <i>SB</i>	3

Cluster Requirements for the BA

Choose from the following clusters ¹	18
Culture and Power	
Social Conflict and Change	
Family, Work, and Community	
Social Inequality: Race, Class, and Gender	
Electives ²	15
Total	45

¹ Choose one course from three of four clusters for nine semester hours, and three additional courses for nine semester hours from any of the four clusters.

² Choose courses in sociology or related fields: anthropology, American studies, criminal justice and criminology, geography, integrative studies, political science, psychology, and women's studies.

BS in Sociology

Required Core for the BS

SBS 302 Qualitative Methods	3
SBS 303 Quantitative Methods	3
SBS 304 Social Statistics I CS	3
SOC 101 Introductory Sociology <i>SB</i>	3
or SOC 301 Principles of Sociology <i>SB</i> (3)	
SOC 486 Contemporary Theory <i>SB</i>	3

Cluster Requirements for the BS

Choose from the following clusters ¹	18
Culture and Power	
Social Conflict and Change	
Family, Work, and Community	
Social Inequality: Race, Class, and Gender	
Electives ²	12
Total	45

¹ Choose one course from three of four clusters for nine semester hours, and three additional courses for nine semester hours from any of the four clusters.

² Choose courses in sociology or related fields: anthropology, American studies, criminal justice and criminology, geography, integrative studies, political science, psychology, and women's studies.

Minor in Sociology

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

Required Core

SBS 303 Quantitative Methods	3
SBS 304 Social Statistics I CS	3
or SOC 486 Contemporary Theory <i>SB</i> (3)	
SOC 101 Introductory Sociology <i>SB</i>	3
or SOC 301 Principles of Sociology <i>SB</i> (3)	
Sociology Electives*	12

* These courses must be chosen in consultation with the student's advisor.

MINOR IN INTERDISCIPLINARY ORGANIZATIONAL STUDIES

Nature of the Program

The minor in Interdisciplinary Organizational Studies is designed to increase students' understanding of the behavior and the dynamics of individual, group, and organizational processes in the workplace. It incorporates perspectives from the behavioral and social sciences, communication studies, and management. The minor is learner-centered and allows students to select course work that matches their career and educational goals.

For more information, visit FAB N255, call 602/543-3011, or access the Web site at www.west.asu.edu/sbs/aboutSBS/degrees/MIOS.htm.

Career Outlook

The minor is relevant to students who seek employment in corporate and small business, governmental agencies, and nonprofit organizations, such as in the health professions, social services, education, public relations, and community services. The minor is also good preparation for students who intend to pursue graduate studies in organizational psychology, human relations, industrial relations, or related fields in sociology and communication.

Minor Requirements

The minor in Interdisciplinary Organizational Studies is open to all undergraduate majors. However, students should consult with the advisors in the department of their major to determine if the minor is consistent with their educational goals. Students are encouraged to take courses outside their major and college. No more than six credits may be applied from major requirements toward completion of the minor. The minor consists of 21 semester hours, of which 18 must be upper-division course work.

Required Courses

Research methods course ¹	3
ASB 440 Women in the Global Factory <i>SB, G</i>	3
or POL 435 Women, Power, Politics <i>SB, C</i> (3)	
PGS 430 Industrial Psychology	3
or SBS 461 Program Evaluation and Policy Research (3)	
PGS 453 Organizational Behavior <i>SB</i>	3

Electives²

Cluster 1: Courses Focused on Organizations

Choose two from the following courses	6
COM 450 Theory and Research in Organizational Communication <i>SB</i> ³ (3)	
COM 451 Employee Participation Processes in Organizations ³ (3)	
COM 453 Communication Training and Development ³ (3)	
GLB 303 Relationship Management (3)	
MGT 301 Principles of Management (3)	
MGT 412 Managing Human Resources (4)	
PGS 430 Industrial Psychology ⁴ (3)	
PGS 482 Social Influence and Consumer Behavior <i>SB</i> (3)	
PHI 360 Business and Professional Ethics <i>HU</i> (3)	
RTM 301 Leadership in Recreation and Tourism (3)	
SBS 461 Program Evaluation and Policy Research ⁴ (3)	
SOC 324 Work and the Workplace <i>SB, H</i> (3)	
SOC 419 Organizations and Technological Change <i>G</i> (3)	
Internship in Organizations ^{5, 6} (3)	

Cluster 2: Courses Focused on Diversity Within Organizations

- Choose one from the following courses.....3
- COM 463 Cultural and Intercultural Communication Theory and Research *SB, G*³ (3)
 - PGS 480 Cross-Cultural Social Psychology *SB, G* (3)
 - POL 435 Women, Power, and Politics *SB, C* (3)
 - SOC 370 Racial and Ethnic Minorities *SB, C* (3)
 - SOC 400 Perspectives on Aging *SB* (3)
 - SOC 426 Social Inequality *SB* (3)
 - WST 350 Race, Class, and Gender *SB, C* (3)
 - WST 487 Gender and International Development *SB, G* (3)

- ¹ SBS advisor's approval is required.
- ² Other approved courses may be used to secure credit.
- ³ Prerequisites COM 308 and 309 may be waived for students not majoring in Communication Studies.
- ⁴ Course may be selected if not used to fulfill core requirements.
- ⁵ Intern course examples are PGS 494, COM 494, or SOC 494.
- ⁶ The internship site must be approved by the SBS advisor.

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 of which must be in upper-division courses. Two courses, ASB 311 and SBS 302, are required. The remaining 12 semester hours may be drawn from ASB courses and from several key SBS courses in the interdisciplinary social science degree. All courses must be passed with a minimum grade of "C" (2.00) or higher.

Upper division ASB courses offered at the Tempe campus may be applied toward the minor in Sociocultural Anthropology. Up to six semester hours of lower-division ASB credit and three semester hours of ASB 499 Individualized Instruction may also be applied toward the minor.

Upper-Division Required Courses

- ASB 311 Principles of Social Anthropology *SB, G, H*.....3
- SBS 302 Qualitative Methods.....3
- Choose four from the following courses*12
- ASB 319 Indigenous Peoples of North America (3)
- ASB 340 Migration and Culture *SB, G* (3)
- ASB 346 Marriage and Family Diversity *SB, C* (3)
- ASB 350 Anthropology and Art *HU* (3)
- ASB 353 Death and Dying in Cross-Cultural Perspective *HU/SB, G* (3)
- ASB 394 Special Topics (3)
- ASB 440 Women and the Global Factory *SB, G* (3)
- ASB 441 Sexuality and Culture *SB, G* (3)
- ASB 442 Urban Anthropology *SB* (3)
- ASB 494 Special Topics (3)
- ASB 499 Individualized Instruction (3 hours maximum)
- SBS 301 Cultural Diversity *L/SB, C* (3)
- SBS 410 Topics in Identity/Difference (3)
- SBS 430 Topics in Power/Knowledge *SB* (3)
- SBS 440 Family Studies *SB* (3)
- SBS 450 Topics in Local/Global *SB, G* (3)
- SBS 460 Urban Studies *SB* (3)

* Other approved courses may be selected.

SECONDARY EDUCATION—BAE

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 Programs for Secondary Education majors (see "College of Teacher Education and Leadership," page 745) and 39 semester hours in social and behavioral sciences course work.

Required Courses

Economics

- ECN 111 Macroeconomic Principles *SB*3
- ECN 112 Microeconomic Principles *SB*.....3

History

- HIS 300 Historical Methods *L, H*.....3
- HIS 443 Constitutional History of the United States *SB, H*.....3
- Choose one combination from the following*.....6
- HIS 103 The United States *SB, H* (3)
- HIS 104 The United States *SB, H* (3)
- or -----
- HIS 303 American Cultural History I *SB, H* (3)
- HIS 304 American Cultural History II *SB, H* (3)
- or -----
- HIS 305 History of American Systems to 1865 *L, C, H* (3)
- HIS 306 History of American Systems since 1865 *H* (3)
- Choose two courses from the following*6
- HIS 101 Western Civilization *SB, H* (3)
- HIS 102 Western Civilization *SB, G, H* (3)
- HIS 355 World History to 1500 *G, H* (3)
- HIS 356 World History since 1500 *G, H* (3)

Political Science

- Choose one course from the following3
- POL 101 Political Ideologies *SB* (3)
- POL 340 Political Theory *SB/HU* (3)
- POL 446 Democracy *HU* (3)
- POL 160 Global Politics *SB, G*3
- or POL 360 World Politics Theory *SB, G* (3)
- POL 460 Politics of Globalization *SB, G*3
- or POL 486 Global Political Economy *SB, G* (3)

Anthropology, Geography, Sociology

- Choose two courses from the following6
- ASB 311 Principles of Anthropology *SB, G, H* (3)
- ASB 340 Migration and Culture *SB, G* (3)
- GCU 357 Social Geography *SB* (3)
- SOC 352 Social Change *SB, G, H* (3)
- SOC 456 Political Sociology (3)

Total39

* A maximum of nine semester hours of history courses may be from the lower division.

ANTHROPOLOGY (SOCIAL AND BEHAVIORAL) (ASB)

For more ASB courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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(Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W 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

W ASB 211 Women in Other Cultures. (3)
selected semesters
Cross-cultural analysis of the economic, social, political, and religious factors that affect women's status in traditional and modern societies.
General Studies: HU/SB, G

W ASB 311 Principles of Social Anthropology. (3)
fall
Comparative analysis of domestic groups and economic and political organizations in primitive and peasant societies. Prerequisite: ENG 101 or 105.
General Studies: SB, G, H

W 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.

W ASB 340 Migration and Culture. (3)
spring
Examines migration and culture embedded in a transnational field of social, economic, and political processes.
General Studies: SB, G

W ASB 342 Mexico-U.S. Borderlands. (3)
selected semesters
Contemporary examination of socioeconomic and political dimensions of border communities, and formation of Mexican-origin communities within and outside the Southwest. Integrated lecture/seminar. Cross-listed as SBS 342/SOC 342. Credit is allowed for only ASB 342 or SBS 342 or SOC 342.
General Studies: SB, C

W ASB 346 Marriage and Family Diversity. (3)
fall and spring
Social, economic, and cultural factors that shape family diversity in relation to generational and gender dynamics within the family.
General Studies: SB, C

W ASB 350 Anthropology and Art. (3)
selected semesters
Art forms of people in relationship to their social and cultural setting.
General Studies: HU

W ASB 353 Death and Dying in Cross-Cultural Perspective. (3)
fall and spring
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. Credit is allowed for only ASB 353 or SOC 353.
General Studies: HU/SB, G

W ASB 389 Ethnographic Field Lab. (1–6)
selected semesters
Hands-on, guided ethnographic qualitative research and interpretative analysis. May be repeated for credit when topics vary. Fieldwork practicum. Integrated seminar/field lab. Cross-listed as SBS 389/SOC 389. Credit is allowed for only ASB 389 or SBS 389 or SOC 389.

W ASB 394 Special Topics. (1–4)
fall and spring
Topics may include the following:
• Anthropology of Gender. (3)
• Cross-Cultural Perspectives on Art. (3)
May be repeated for credit when topics vary.

W 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

W ASB 441 Sexuality and Culture. (3)
selected semesters
Uses a global, comparative approach to examine the cultural and historical construction of sexualities.
General Studies: SB, G

W ASB 442 Urban Anthropology. (3)
spring
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

W ASB 445 Globalization, Development, and Resistance. (3)
fall
Explores the interconnections among globalization, development, and grassroots movements for social change in Africa, Asia, and Latin America. Lecture, seminar. Prerequisite: social science course recommended.
General Studies: SB, G

W ASB 447 Citizenship, Nationalism, and Identity. (3)
selected semesters
Historical and contemporary examination of citizenship as a form of belonging and fidelity, and the creation of "good citizens" within the U.S. Integrated lecture/seminar. Cross-listed as POL 447/SBS 447. Credit is allowed for only ASB 447 or SBS 447 or POL 447.
General Studies: SB, C

W ASB 494 Special Topics. (1–4)
selected semesters

W ASB 499 Individualized Instruction. (1–3)
selected semesters

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

FAMILY STUDIES (FAS)

For more FAS courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W FAS 301 Introduction to Parenting. (3)
summer
Integrated approach to understanding parenting and parent-child interactions. Prerequisites: ENG 101 (or 105); PGS 101, SOC 101 (or its equivalent).
General Studies: SB

W 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 its equivalent).
General Studies: SB

W FAS 331 Marriage and Family Relationships. (3)
fall and spring
Issues, challenges, and opportunities relating to present-day marriage and family living. Factors influencing interrelations within the family. Prerequisite: course in psychology or sociology.

W FAS 332 Human Sexuality. (3)
selected semesters
Relationship of sexuality to family life and to major societal issues. Emphasizes developing healthy, positive, responsive ways of integrating sexual and other aspects of human living. Prerequisite: PGS 101.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

CULTURAL GEOGRAPHY (GCU)

For more GCU courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—E

(Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W GCU 102 Introduction to Human Geography. (3)

selected semesters

Systematic study of human use of the earth. Spatial organization of economic, social, political, and perceptual environments.

General Studies: SB

W GCU 121 World Geography. (4)

selected semesters

Description and analysis of areal variations in social, economic, and political phenomena in major world regions.

General Studies: SB, G

W GCU 253 Introduction to Cultural and Historical Geography. (3)

spring

Cultural patterns, including such phenomena as language, religion, and various aspects of material culture. Origins and diffusion and division of the world into cultural areas.

General Studies: SB, G

W GCU 351 Population Geography. (3)

spring

Demographic patterns. Spatial, temporal, and structural investigation of the relationship of demographic variables to cultural, economic, and environmental factors. Cross-listed as SBS 351. Credit is allowed for only GCU 351 or SBS 351. Prerequisite: MAT 117 or higher.

General Studies: SB, G

W GCU 357 Social Geography. (3)

selected semesters

Environmental perception of individuals and groups. Stresses the spatial aspect of social and physical environments.

General Studies: SB

W 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

W GCU 373 Introduction to Geographic Information Science. (4)

fall

Introduces theoretical and computer-based aspects of Geographic Information Systems, involving data analysis and map generation.

Fee. Prerequisite: PSY 230 or SBS 304.

General Studies: SG

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

PSYCHOLOGY (SOCIAL AND BEHAVIORAL) (PGS)

For more PGS courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W PGS 101 Introduction to Psychology. (3)

fall, spring, summer

Major areas of theory and research in psychology. Requires participation in department-sponsored research or an educationally equivalent alternative activity.

General Studies: SB

W PGS 250 Psychology and Society. (3)

fall

Addresses how social and behavioral science theory and research are used to understand behavior related to various social issues.

General Studies: SB

W PGS 304 Effective Thinking. (3)

spring and summer

Understanding and improving intellectual and behavioral skills; information analysis, inference, logic, problem solving, and decision making. Prerequisites: ENG 101 (or 105) and either MAT 119 or PSY 230 (or its equivalent).

General Studies: L

W PGS 306 Environmental Psychology. (3)

fall and summer

Concepts and research strategies in the study of behavior in interaction with physical environment. Prerequisite: PGS 101.

General Studies: SB

W PGS 315 Personality Theory and Research. (3)

fall and summer

Definition and description of personality in terms of theoretical and methodological approaches. Prerequisites: PGS 101; PSY 290.

General Studies: SB

W PGS 341 Developmental Psychology. (3)

fall

Analyzes behavior development in terms of psychological principles. Current research in human development. Prerequisites: PGS 101; PSY 290.

General Studies: SB

W PGS 344 Directed Child Study. (3)

spring

Theories and methods of intervention with preschool 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

W 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

W PGS 370 Interpersonal Relationships. (3)

fall and spring

Development of personal skills for competent functioning in interpersonal relationships across multiple social contexts. Principles of mental health adjustment. Prerequisite: PGS 101 (or its equivalent).

General Studies: SB

W PGS 385 Psychology of Gender. (3)

fall

Examines, from a psychological perspective, the similarities and differences in beliefs, attitudes, and behaviors of women and men. Cross-listed as WST 385. Credit is allowed for only PGS 385 or WST 385.

General Studies: SB

W 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 before registration; "B" (3.00) GPA average in major. Pre- or corequisite: PSY 230 (or its equivalent).

W PGS 427 Psychology of Aging. (3)

fall

Behavioral, experiential, and emotional phenomena associated with aging. Analysis of retained abilities and resources as well as losses and stresses. Prerequisite: PGS 101.

General Studies: SB

W PGS 430 Industrial Psychology. (3)

selected semesters

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.

W PGS 442 Life Span Development. (3)

spring

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

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

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W PGS 443 Abnormal Child Psychology. (3)

spring

Covers the major disorders of childhood and adolescence (e.g., autism, hyperactivity, phobias, and delinquency), including cause, diagnosis, treatment, and prevention. Prerequisites: ENG 101 (or 105); PGS 101; one course from among PGS 315, 341, 350 or instructor approval.

General Studies: L/SB

W PGS 444 Adolescent Psychology and Psychopathology. (3)

fall

Advanced-level survey of normal adolescent psychological development and psychological disorders of this age period. Lecture, discussion. Prerequisites: PGS 101, 341; PSY 290.

W PGS 446 Social Development. (3)

selected semesters

Discusses theory, research, and issues regarding social development. Topics may include formation of attachments, prosocial development, and gender-role development. Lecture, seminar. Prerequisite: PGS 341.

General Studies: L/SB

W PGS 453 Organizational Behavior. (3)

spring

Surveys psychological theory and research as applied to the behavior of individuals in organizational settings. Lecture, discussion. Prerequisites: both PGS 101 and 350 or only instructor approval.

General Studies: SB

W 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.

W PGS 465 Psychology of Stress and Coping. (3)

fall

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: SB

W PGS 466 Abnormal Psychology. (3)

fall and summer

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

W PGS 468 Psychology and Law. (3)

selected semesters

Theories, research, and practice in psychology as related to law, including criminal, civil, domestic relations, and professional issues. Prerequisite: PGS 101.

W PGS 472 Clinical Psychology. (3)

selected semesters

Clinical psychology as a science and profession. Historical development, methods of interviewing, assessment, and therapeutic intervention. Prerequisite: PGS 466.

W PGS 473 Psychology and Politics of Child Maltreatment. (3)

spring

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

W PGS 480 Cross-Cultural Social Psychology. (3)

spring

Focuses on patterns of social behavior in individualistic and collectivistic cultures. Includes multidisciplinary research using qualitative and quantitative methodologies. Prerequisites: PGS 101, 350.

General Studies: SB, G

W PGS 482 Social Influence and Consumer Behavior. (3)

spring

Discusses social influence principles, emphasizing strategies employed by professionals that affect consumer behavior. Analyzes consumer defenses against manipulations. Prerequisite: PGS 350.

General Studies: SB

W PGS 494 Special Topics. (3)

fall, spring, summer

Topics may include theoretical and applied areas of psychology (e.g., infant development).

W PGS 499 Individualized Instruction. (1–3)

selected semesters

Advanced individual scholarship with faculty member. Prerequisite: PGS 399.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

POLITICAL SCIENCE (POL)

W POL 101 Political Ideologies. (3)

fall and spring

Leading political ideas and belief systems, e.g., Marxism, liberalism, conservatism, theories of democracy, and alternative futures. Credit is allowed for only POL 101 or 340.

General Studies: SB

W POL 110 Government and Politics. (3)

spring

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. Credit is allowed for only POL 110 or 310.

General Studies: SB

W POL 160 Global Politics. (3)

fall

The nature of contemporary world politics through the study of both general theoretical topics and specific geographical areas. Credit is allowed for only POL 160 or 360.

General Studies: SB, G

W POL 247 Introduction to Latin American Politics. (3)

selected semesters

General introduction to the politics and socioeconomic structures of Latin America.

General Studies: SB, G

W POL 260 Current Issues in International Politics. (3)

fall

Analyzes major current problems in world politics.

General Studies: SB, G

W POL 310 American National Government: Ideas and Institutions. (3)

fall and summer

Historical, analytic context of constitutionalism and citizenship vis-à-vis social, economic, and political institutions. Meets the federal government requirement for teacher certification. Credit is allowed for only POL 310 or 110.

General Studies: SB, H

W POL 313 The Congress. (3)

spring

The modern American Congress: its role, power and interrelationship in the American political system.

General Studies: SB

W POL 314 The American Presidency. (3)

fall

Office, role, and power of the American presidency in the American political system.

General Studies: SB

W POL 320 Latino Politics. (3)

fall

Examines contemporary political issues in the diverse Latino community.

General Studies: SB, C

W POL 331 Public Opinion. (3)

selected semesters

Examines U.S. public opinion, the diversity of its cultural sources, and political influence.

General Studies: SB

DEPARTMENT OF SOCIAL AND BEHAVIORAL SCIENCES

W 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

W POL 340 Political Theory. (3)

fall and summer

Surveys ancient, modern, and contemporary political theorists and ideas in European and American contexts. Prerequisite: ENG 101 or 105.

General Studies: HU/SB

W POL 350 Comparative Politics. (3)

spring and summer

Theoretical approaches and political institutions, such as parties, pressure groups, legislatures, and executives, from a cross-national perspective.

General Studies: SB, G

W POL 360 World Politics Theory. (3)

spring

Theoretical examination of one or more aspects of international politics, e.g., foreign policy, negotiations, alliances, crises, wars, and international systems. Credit is allowed for only POL 360 or 160.

General Studies: SB, G

W POL 361 American Foreign Policy. (3)

fall

United States in world affairs; foreign policy since World War I. Techniques in formulating American foreign policies.

General Studies: SB

W POL 417 The Arizona Political System. (3)

selected semesters

Contemporary political problems within the context of Arizona's political, social, and constitutional frameworks. Meets the Arizona Constitution requirement for teacher certification.

W POL 430 Race and Politics in the Americas. (3)

selected semesters

Studies racial politics in North, Central, and South America with a focus on the United States.

General Studies: SB, C

W POL 434 Media and Politics. (3)

selected semesters

Studies mass media and politics in the United States, e.g., media and elections, media and government.

General Studies: SB

W POL 435 Women, Power, and Politics. (3)

spring

The roles and treatment of women within various political contexts. Specific focus may vary with instructor.

General Studies: SB, C

W 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

W POL 440 Political Futures through Science Fiction. (3)

selected semesters

Examines the relationship between politics and science fiction literature and film. Prerequisite: ENG 101 or 105.

General Studies: L/HU

W POL 446 Democracy. (3)

spring

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

W POL 447 Citizenship, Nationalism, and Identity. (3)

selected semesters

Historical and contemporary examination of citizenship as a form of belonging and fidelity, and the creation of "good citizens" within the U.S. Integrated lecture/seminar. Cross-listed as ASB 447/SBS 447. Credit is allowed for only ASB 447 or SBS 447 or POL 447.

General Studies: SB, C

W POL 453 Latin American Cities. (3)

spring

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

W POL 454 Mexico: Politics, Economy, Cultures. (3)

fall and spring

Politics, economy, and cultures in Mexico in historical and contemporary perspective.

General Studies: SB, G

W POL 460 Politics of Globalization. (3)

fall

Theories and analysis of the politics of economic and technological globalization in the contemporary world.

General Studies: SB, G

W POL 464 Border Cities: Action Research on Globalization. (3)

spring

Examines the effects of globalization on U.S.-Mexico border cities and towns with particular emphasis on Mexican border cities. Lecture, computer-mediated research labs, field trip, online discussions.

General Studies: SB, G

W POL 470 Law and the Political Order. (3)

spring and summer

Investigates concepts of justice, political rights, adjudication and legislation, legal ordering, constitutional law, law as an instrument of change.

General Studies: SB

W POL 480 Global Justice. (3)

fall

Explores questions of justice that cross national borders, including delivery of foreign aid, immigration, and military intervention. Cross-listed as SBS 480. Credit is allowed for only POL 480 or SBS 480.

General Studies: G

W 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: internship coordinator and department chair approvals.

W POL 486 Global Political Economy. (3)

fall

Contending approaches to historical and contemporary issues of international political economy, including global welfare, equality, ecology, and peace.

General Studies: SB, G

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

PSYCHOLOGY (SCIENCE AND MATHEMATICS) (PSY)

For more PSY courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W PSY 230 Introduction to Statistics. (3)

fall, spring, summer

Basic concepts in descriptive and inferential statistics, emphasizing applications to psychology. Prerequisites: MAT 117; PGS 101.

General Studies: CS

W PSY 290 Research Methods. (4)

fall, spring, summer

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: SG

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

NEW COLLEGE OF INTERDISCIPLINARY ARTS AND SCIENCES

W PSY 323 Sensation and Perception. (3)

fall, spring, summer

Underlying processes of vision, audition, and the other senses. Applies current research and theory in a lab environment. Prerequisite: PSY 290 or instructor approval.

W PSY 324 Memory and Cognition. (3)

fall, spring, summer

Processes underlying information storage and retrieval, including different kinds of memory, forgetting, depth of processing, and control processes. Prerequisite: PSY 290.

General Studies: SB

W PSY 325 Physiological Psychology. (3)

fall

Relationships of physiological processes to behavior. Emphasizes nervous system functioning. Prerequisites: PSY 290 (or two courses in biological science); instructor approval.

W PSY 330 Statistical Methods. (3)

spring

Advanced application of statistics to psychology. Highly recommended for students interested in attending graduate school. 3 hours lecture, 1 hour lab. Prerequisites: PSY 230, 290.

General Studies: CS

W PSY 394 Special Topics. (1–4)

selected semesters

W PSY 425 Biological Bases of Behavior. (3)

spring

Critical study of physiological psychology, e.g., brain mechanisms underlying motivation, learning. Prerequisites: ENG 101 (or 105); PSY 325.

General Studies: L

W PSY 494 Special Topics. (1–4)

selected semesters

W PSY 499 Individualized Instruction. (1–3)

selected semesters

Advanced individual scholarship with faculty member. Prerequisite: PGS 399.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

SOCIAL AND BEHAVIORAL SCIENCES (SBS)

W SBS 200 Introduction to Social and Behavioral Sciences. (3)

once a year

Overview of the social and behavioral sciences, indicating their contributions to society and emphasizing interdisciplinary integration. Lecture, discussion.

General Studies: SB

W SBS 205 Cybercultures. (3)

spring

Explores culture, identity, and politics within and around the Internet, including cyberpunks, virtual communities, MUDs, free software, blogs, and hacktivism. Lecture, collaborative learning.

General Studies: SB

W SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences. (3)

fall and spring

Interdisciplinary approach to the study of social life.

General Studies: SB

W SBS 301 Cultural Diversity. (3)

fall and spring

Socially structured differences in historical and cross-cultural perspective. Prerequisite: ENG 101 or 105.

General Studies: L/SB, C

W SBS 302 Qualitative Methods. (3)

spring

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.

W SBS 303 Quantitative Methods. (3)

fall

Concepts underlying design and implementation of quantitative research methods.

W SBS 304 Social Statistics I. (3)

fall and spring

Statistical techniques of the social and behavioral sciences.

General Studies: CS

W SBS 342 Mexico-U.S. Borderlands. (3)

selected semesters

Contemporary examination of socioeconomic and political dimensions of border communities, and formation of Mexican-origin communities within and outside the Southwest. Integrated lecture/seminar. Cross-listed as ASB 342/SOC 342. Credit is allowed for only ASB 342 or SBS 342 or SOC 342.

General Studies: SB, C

W SBS 351 Population Geography. (3)

spring

Demographic patterns. Spatial, temporal, and structural investigation of the relationship of demographic variables to cultural, economic, and environmental factors. Cross-listed as GCU 351. Credit is allowed for only GCU 351 or SBS 351. Prerequisite: MAT 117 or higher.

General Studies: SB, G

W SBS 389 Ethnographic Field Lab. (1–6)

selected semesters

Hands-on, guided ethnographic qualitative research and interpretative analysis. May be repeated for credit when topics vary. Fieldwork practicum. Integrated seminar/field lab. Cross-listed as ASB 389/SOC 389. Credit is allowed for only ASB 389 or SBS 389 or SOC 389.

W 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: both SBS 303 and 304 or only instructor approval.

General Studies: CS

W SBS 410 Topics in Identity/Difference. (3)

fall and spring

Topics which focus on race/ethnic, gender, sexual or cultural identity/difference. May be repeated for credit when topics vary. Topics may include the following:

- Introduction to Asian American Experiences

W SBS 430 Topics in Power/Knowledge. (3)

fall and spring

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

W SBS 440 Family Studies. (3)

fall and spring

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

W SBS 447 Citizenship, Nationalism, and Identity. (3)

selected semesters

Historical and contemporary examination of citizenship as a form of belonging and fidelity, and the creation of "good citizens" within the U.S. Integrated lecture/seminar. Cross-listed as ASB 447/POL 447. Credit is allowed for only ASB 447 or SBS 447 or POL 447.

General Studies: SB, C

W SBS 450 Topics in Local/Global. (3)

fall and spring

Examines links among social, political, economic changes at local, national, global levels. May be repeated for credit when topics vary.

General Studies: SB, G

W SBS 460 Urban Studies. (3)

fall and spring

Studies local and global urban issues such as social geography, political economy, culture and social space, urban social diversity. May be repeated for credit when topics vary.

General Studies: SB

W SBS 461 Program Evaluation and Policy Research. (3)

spring

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



Las Casas, an apartment-style, living- and learning-based housing facility, opened on the West campus in 2003.

Tim Trumble photo

W SBS 480 Global Justice. (3)

fall

Explores questions of justice that cross national borders, including delivery of foreign aid, immigration, and military intervention. Cross-listed as POL 480. Credit is allowed for only POL 480 or SBS 480.

General Studies: G

W SBS 484 Internship. (1-6)

fall, spring, summer

Structured practical experience supervised in the field by practitioners and overseen by the departmental internship coordinator.

Prerequisites: internship coordinator and department chair approvals.

W 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-semester-hour sequence, followed by SBS 491. Prerequisites: departmental advisor and department chair approvals.

W 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-semester-hour sequence. Prerequisites: SBS 490; departmental advisor and department chair approvals.

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

SOCIOLOGY (SOC)

For more SOC courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

W SOC 101 Introductory Sociology. (3)

fall, spring, summer

Fundamentals of sociology, organization of human groups and society, processes of interaction, and social change. Credit is allowed for only SOC 101 or 301. 2 hours lecture, 1 hour discussion.

General Studies: SB

W SOC 210 Sociology of Murder. (3)

fall

Sociological perspectives on various forms of murder and types of murderers. Also considers forms of punishment for murder.

General Studies: SB

W SOC 301 Principles of Sociology. (3)

spring

Intensive and critical analysis of the concepts of sociology. Credit is allowed for only SOC 301 or 101.

General Studies: SB

W SOC 315 Courtship and Marriage. (3)

fall and spring

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

L literacy and critical inquiry / MA mathematics / CS computer/statistics/ quantitative applications / HU humanities and fine arts / SB social and behavioral sciences / SG natural science—general core courses / SQ natural science—quantitative / C cultural diversity in the United States / G global / H historical / See "General Studies," page 93.

NEW COLLEGE OF INTERDISCIPLINARY ARTS AND SCIENCES

W 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

W SOC 328 Migration. (3)

spring

Introduces the definition and analysis of migration in all forms.

General Studies: SB, G

W SOC 332 The Modern City. (3)

spring

Growth, characteristics, and problems of the modern city. Prerequisite: SOC 101 or 301.

W SOC 340 Sociology of Deviant Behavior. (3)

spring

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

W 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

W SOC 342 Mexico-U.S. Borderlands. (3)

selected semesters

Contemporary examination of socioeconomic and political dimensions of border communities, and formation of Mexican-origin communities within and outside the Southwest. Integrated lecture/seminar. Cross-listed as ASB 342/SBS 342. Credit is allowed for only ASB 342 or SBS 342 or SOC 342.

General Studies: SB, C

W SOC 352 Social Change. (3)

fall and spring

Patterns of social change, resistance to change, and change-producing agencies and processes. Prerequisite: SOC 101 or 301.

General Studies: SB, G, H

W SOC 353 Death and Dying in Cross-Cultural Perspective. (3)

fall and spring

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 ASB 353. Credit is allowed for only SOC 353 or ASB 353.

General Studies: HU/SB, G

W SOC 354 Popular Music and Society. (3)

summer

Places contemporary music in its social, economic, and political context; usually offered with MUS 354.

General Studies: HU

W 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

W SOC 364 Popular Culture. (3)

fall and spring

Studies the social approaches to popular culture, focusing on the function of various forms (literature, film, theatre, and music).

General Studies: SB

W SOC 365 Sociology of Mass Communication. (3)

selected semesters

Sociological exploration of the major mass media as a communicative process in American society.

General Studies: SB

W SOC 366 Film and Society. (3)

fall and spring

Studies the social approaches to film as an art form, mass medium, and ideological construct.

General Studies: SB

W SOC 370 Racial and Ethnic Minorities. (3)

spring

Problems of minorities in the United States and in other racially and ethnically heterogeneous societies. Evaluates theories of prejudice

and of research dealing with discrimination, desegregation, and assimilation. Prerequisite: SOC 101 or 301.

General Studies: SB, C

W SOC 389 Ethnographic Field Lab. (1-6)

selected semesters

Hands-on, guided ethnographic qualitative research and interpretative analysis. May be repeated for credit when topics vary. Fieldwork practicum. Integrated seminar/field lab. Cross-listed as ASB 389/SBS 389. Credit is allowed for only ASB 389 or SBS 389 or SOC 389.

W SOC 394 Special Topics. (1-4)

fall, spring, summer

Topics may include the following:

- Film and Society. (3)
- Sports and Society. (3)
- Women and Religion. (3)
- Women. (3)
- Work and the Border Economy. (3)

W SOC 400 Perspectives on Aging. (3)

fall and spring

Broad overview of gerontological issues; e.g., physical aging, retirement, living options, caregiving, theoretical background, death. Cross-listed as GRN 400. Credit is allowed for only SOC 400 or GRN 400.

General Studies: SB

W SOC 418 Aging and the Life Course. (3)

selected semesters

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

W SOC 419 Organizations and Technological Change. (3)

spring

Explores the increasing impact of information technology on corporate, governmental, and private organizations. May involve fieldwork.

General Studies: G

W SOC 426 Social Inequality. (3)

fall

Examines stability and change in social inequality based on age, class, ethnicity, gender, and race.

General Studies: SB

W SOC 443 Sociology of Corporations. (3)

spring

Examines corporations as social institutions and the implications of their status as a legal "person" on politics, culture, and economy.

General Studies: SB, G

W SOC 456 Political Sociology. (3)

fall

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.

W SOC 457 Social Movements and Social Change. (3)

spring

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

W 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: internship coordinator and department chair approvals.

W SOC 486 Contemporary Theory. (3)

fall and spring

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

W SOC 494 Special Topics. (1-4)

selected semesters

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.

Women's Studies Program

www.west.asu.edu/ws
 602/543-3300
 FAB N291

Astair Gebre Mariam Mengesha, Chair

Professor: Stage

Associate Professors: Elenes, Mengesha

Assistant Professor: Tellez

Lecturer: Share

Nature of the 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. The goals of the Women's Studies Program are to

1. provide the university and the community with academic programs of study and research that place women at the center of the university curriculum;
2. provide a model for interdisciplinary teaching and research with cross-cultural, national, and global perspectives on women;
3. generate and facilitate research on women's experience and the social construction of gender; and
4. stand as a visible example of the university's commitment to improve the status of women.

The Women's Studies Program offers the BA and BS in Women's Studies, the Certificate in Women's Studies, and the Women's Studies Resource Center. As a multicomponent program of Women's Studies, the Women's Studies Resource Center supports research pertaining to local, national and global issues in Women's Studies.

Career Outlook

A student majoring in Women's Studies receives 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.

WOMEN'S STUDIES—BA OR BS

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

Students must complete all course work in the major with a grade of "C" (2.00) or higher. No pass/fail credit may be used for major requirements.

Core Requirements¹

WST 100 Women and Society <i>SB, C</i>	3
or WST 300 Women in Contemporary Society <i>SB, C</i> (3)	
WST 350 Race, Class, and Gender <i>SB, C</i>	3
WST 457 Women, Cultures, and Societies <i>SB, G</i>	3
WST 498 PS: Theory and Method in Women's Studies <i>L</i>	3
Choose one global perspective course from the following ²	3
WST 390 Women and World Religions <i>L/SB, G</i> (3)	
WST 475 Women of the Diaspora Across Cultures <i>HU, G</i> (3)	
WST 483 Contemporary Women Writers <i>HU, G</i> (3)	
WST 487 Gender and International Development <i>SB, G</i> (3)	
Choose one representation course from the following ²	3
WST 370 Chronicling Women's Lives <i>HU, C</i> (3)	
WST 376 Feminist Theory <i>L, C</i> (3)	
WST 467 Ethnic Women Writers <i>L/HU, C</i> (3)	
WST 473 Latina/Chicana Representation <i>SB, C</i> (3)	
Choose one culture studies course from the following ²	3
WST 320 Women in Popular Culture <i>HU, C</i> (3)	
WST 431 Women and Film <i>L, G</i> (3)	
Related course work ³	15
WST electives	9
Program total.....	45

¹ No course may be used to satisfy more than one of these seven core requirements.
² Other approved course may be used to meet this requirement.
³ 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 at the West campus, the Center for New Directions, Motorola, Viad, and others.

Certificate in Women's Studies

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

L literacy and critical inquiry / **MA** mathematics / **CS** computer/statistics/quantitative applications / **HU** humanities and fine arts / **SB** social and behavioral sciences / **SG** natural science—general core courses / **SQ** natural science—quantitative / **C** cultural diversity in the United States / **G** global / **H** historical / See "General Studies," page 93.

NEW COLLEGE OF INTERDISCIPLINARY ARTS AND SCIENCES

graduate students, nondegree 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, and culture studies.

WOMEN'S STUDIES (WST)

For more WST courses, see the "Course Prefixes" table, or access www.asu.edu/aad/catalogs/courses. The campus designation—D (Downtown Phoenix), E (Polytechnic), M (Tempe), or W (West)—may affect how courses may be used to fulfill requirements.

WST Note 1. Completion of the First-Year Composition requirement (ENG 101 and 102 or ENG 105 or ENG 107 and 108 [available at Tempe campus] with a grade of "C" [2.00] or higher) is a prerequisite for all English courses above the 100 level.

W WST 100 Women and Society. (3)

spring

Interdisciplinary introduction examining critical issues in women's studies. Credit is allowed for only WST 100 or 300.

General Studies: SB, C

W WST 276 Feminist Foundations: Going to the Sources. (3)

spring in odd years

Historical survey of sources influential in the development of the feminist movement in the United States. Lecture, discussion.

General Studies: H

W WST 300 Women in Contemporary Society. (3)

fall and spring

Interdisciplinary examination of such topics as gender roles, work, education, sexuality, politics, health, and law. Credit is allowed for only WST 300 or 100. Prerequisite: ENG 101 or 105.

General Studies: SB, C

W WST 320 Women in Popular Culture. (3)

fall

Analyzes from a historical perspective the images of women in magazines, films, advertising, toys, and other popular culture forms.

General Studies: HU, C

W WST 350 Race, Class, and Gender. (3)

fall and spring

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

W WST 370 Chronicling Women's Lives. (3)

spring in even years

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

W WST 376 Feminist Theory. (3)

once a year

Explores feminist theories and the intersection of gender, race, ethnicity, and class through critical analyses. Prerequisite: ENG 101 or 105.

General Studies: L, C

W WST 378 Global Feminist Theory. (3)

spring

Global feminist theories and exploration of the intersections of gender, race, ethnicity, class, and nation through critical analysis. Prerequisite: WST 100 or 300.

General Studies: L, C, G

W WST 385 Psychology of Gender. (3)

fall

Examines, from a psychological perspective, the similarities and differences in beliefs, attitudes, and behaviors of women and men. Cross-listed as PGS 385. Credit is allowed for only WST 385 or PGS 385.

General Studies: SB

W WST 390 Women and World Religions. (3)

once a year

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

W WST 394 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Cultural Diversity. (3)
fall and spring
- Gender and Sexuality. (3)
fall and spring

W 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

W WST 457 Women, Cultures, and Societies. (3)

fall

Examines issues such as poverty, dependency, interdependency, race, class, and gender in different societies of the world.

General Studies: SB, G

W WST 467 Ethnic Women Writers. (3)

fall

Concentrates on selected women writers of the U.S. who are Native American, African American, Latina, and Asian-American. Cross-listed as ENG 460. Credit is allowed for only WST 467 or ENG 460. See WST Note 1.

General Studies: L/HU, C

W WST 473 Latina/Chicana Representation. (3)

fall

Examines from an interdisciplinary perspective contemporary issues experienced by Chicana/Latina women in the U.S.

General Studies: SB, C

W WST 475 Women of the Diaspora Across Cultures. (3)

selected semesters

Examines the socioeconomic condition, political formation, and identities of contemporary indigenous, ethnic minority, immigrant, and migrant women globally.

General Studies: HU, G

W WST 483 Contemporary Women Writers. (3)

once a year

Comparative approach to contemporary writings by women from around the world.

General Studies: HU, G

W WST 487 Gender and International Development. (3)

fall, spring, summer

Addresses conceptual, methodological, and theoretical issues concerning gender, development, and internationalism; evaluates theories and models for change.

General Studies: SB, G

W WST 494 Special Topics. (1–4)

selected semesters

Topics may include the following:

- Aging: Women/Minority Issues. (3)
fall and spring
- Social History of American Women. (3)
fall and spring
- Women, Power, and Politics. (3)
fall and spring

W WST 498 Pro-Seminar: Theory and Method in Women's Studies. (3)

spring

Reading and research on important theoretical and methodological issues in women's studies. Prerequisites: both ENG 101 (or 105) and WST 100 (or 300) or only instructor approval.

General Studies: L

Omnibus Courses. For an explanation of courses offered but not specifically listed in this catalog, see "Omnibus Courses," page 63.