

New College of Interdisciplinary Arts and Sciences

- 179** *Purpose*
- 179** *Bachelor of Arts and Bachelor of Science degree programs*
- 181** *Department of Integrated Natural Sciences*
- 185** *Department of Integrative Studies*
- 188** *Applied Computing*
- 189** *Applied Science Program (BAS)*
- 191** *Department of Interdisciplinary Arts and Performance*
- 196** *Department of Language, Cultures, and History*
- 196** *American Studies*
- 198** *English*
- 200** *Certificate in Writing*
- 202** *History*
- 204** *Spanish*
- 206** *Department of Social and Behavioral Sciences*
- 206** *Social and Behavioral Sciences*
- 208** *Political Science*
- 210** *Psychology*
- 211** *Sociology*
- 214** *Interdisciplinary Organizational Studies Minor*
- 215** *Women's Studies Program*
- 217** *Ethnic Studies Program*
- 218** *Religious Studies Minor*
- 218** *Master of Arts Degree in Interdisciplinary Studies*
- 220** *New College of Interdisciplinary Arts and Sciences Course Descriptions*

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Purpose

The New College of Interdisciplinary Arts and Sciences offers academic programs that prepare students to take their place as active participants in a rapidly changing social, political, and natural environment. These programs seek to provide students with the skills necessary for independent thinking and effective expression; an understanding and appreciation of diverse cultures both 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 New College's integrating principle or focus is "social concern and community engagement."

The New 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.

The New College of Interdisciplinary Arts and Sciences is organized into six interdisciplinary departments- Integrated Natural Sciences; Integrative Studies; Interdisciplinary Arts and Performance; Language, Cultures, and History; Social and Behavioral Sciences; and Women's Studies. The faculties of each of these departments contribute both interdisciplinary and disciplinary courses to the general education and major programs of all students at the West campus.

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

BS	Applied Computing
BA	American Studies
BA	English
BA	History
BA	Integrative Studies
BA	Interdisciplinary Arts and Performance
BS	Life Sciences
BA, BS	Political Science
BA, BS	Psychology
BA, BS	Social and Behavioral Sciences
BA, BS	Sociology
BA	Spanish
BA, BS	Women's Studies
BAS	Applied Science
MA	Interdisciplinary Studies

The college also offers certificates in Ethnic Studies, Film and Video Studies, Writing, and Women's Studies. Students may also acquire minors in eighteen areas.

Bachelor of Arts and Bachelor of Science degree programs

Admission

Any student who is admitted to the university and who wishes to major in an interdisciplinary or disciplinary field offered by the 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 hours must consist of upper division courses. A minimum cumulative GPA of 2.00 is required for graduation.

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

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

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

Proficiency requirements. Each student is required to demonstrate proficiency in the analysis of language and cultures and mathematics by passing an examination or by completing the courses specified below with a grade of "C" (2.00) or better in each course.

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

A. Language and Cultures

This requirement may be satisfied through one of the following:

1. completion of secondary education at a school in which the language of instruction is not English; or
2. completion of a language course at the intermediate level (202 or equivalent), including American Sign Language IV; or
3. completion of upper division course(s) taught in a foreign language, taken in the United States or the relevant country; or
4. completion of six hours of upper division courses that have a Global Awareness (G) or

Cultural Diversity in the U.S. (C) designation, in addition to the courses used to meet the University General Studies requirements; or

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

B. 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.

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

B. No credit is granted toward fulfilling major or minor requirements in any upper division course in the subject field of the major unless the grade in that course is at least a "C" (2.00). Normally a "Y" (satisfactory) grade needs confirmation that it is equivalent to a "C" (2.00) or better.

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

The Department of Integrated Natural Sciences offers an interdisciplinary BS degree and Minor in Life Sciences. In addition, the

department offers a strong pre-health/pre-medical curriculum for students who are intent upon a career in the health professions.

Bachelor of Science in Life Sciences

Nature of program

The intricate connections between biology, chemistry, physics, and geology form the basis of the Integrated Natural 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 be in the health field, 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 chemistry, physics, and biology. Many medical colleges have additional course requirements, often including courses in psychology, communication, or math as well as upper division biology or biochemistry courses. The 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 requirements that each professional school requires for entrance. 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 applying to health professional schools can be found at the Integrated Natural Sciences website at: www.west.asu.edu/lifesci.

Career outlook

A degree in Life Sciences provides broad training in laboratory, data-gathering, writing, communication, quantitative, problem-solving, and critical thinking skills that prepare students for a wide variety of careers. Life Sciences students may enter careers in laboratory or field research, business, scientific journalism, publishing, teaching, and medicine. Laboratory technician or research associate positions are available in university and government research laboratories, hospital and diagnostic laboratories, and pharmaceutical, biotechnology, agricultural, and food processing companies. Laboratory experience at the undergraduate level, available in laboratories on and off campus, will enhance employability in these areas. Students who emphasize field studies may prepare themselves for entry level positions in private companies as well as state and federal agencies. These positions include wildlife biologist, environmental consultant, and conservation officer. Participation in internships in government agencies or private companies as an undergraduate will provide the student with experience valuable to 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.

Major requirements

The Bachelor of Science in Life Sciences consists of 20 semester hours of core courses, 18 semester hours of distribution courses, and 32-33 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 better is required for all coursework taken to fulfill major requirements.

			Semester Hours
Core courses			
BIO	187	General Biology I (SG)	4
BIO	188	General Biology II (SQ)	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 (SQ)	4
CHM	115	General Chemistry with Qualitative Analysis (SQ)	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 (SQ)	3
PHY	113	General Physics Laboratory (SQ)	1
PHY	112	General Physics (SQ)	3
PHY	114	General Physics Laboratory (SQ)	1
One of the following options:			7-8
MAT	270	Calculus with Analytic Geometry I (MA) (4) <i>and</i>	
MAT	271	Calculus with Analytic Geometry (MA) II (4)	
<i>or</i>			
MAT	210	Brief Calculus (MA) (3) <i>and</i>	
LSC	415	Biometry (CS) (4)	

Distribution courses

18

Students must take at least 18 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 6 semester hours of internship, externship, proseminar, 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) *and*
- LSC 359 Animal Physiology Laboratory (1)
- LSC 366 Principles of Biochemistry (3)
- LSC 367 Elementary Biochemistry Laboratory (1)
- LSC 432 Basic Pharmacology (4)
- 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) *and*
- LSC 445 Fundamentals of Microbiology Laboratory (1)
- LSC 473 Ichthyology (L) (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 (L) (3)
- LSC 434 Marine Ecology (3)

Electives

- LSC 350 Premedical Professional Seminar (3)
- LSC 415 Biometry* (CS) (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 Proseminar (1-3)
- LSC 499 Individualized Instruction (1-6)

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

Total

70-71

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.

			Semester Hours
Minor requirements			
Required courses			
BIO 187	General Biology I		4
BIO 188	General Biology II		4
CHM 113	General Chemistry		4
CHM 115	General Chemistry with Qualitative Analysis		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			<hr/> 29

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

Computing, the Bachelor of Applied Science, minors in Mathematics and Philosophy, and courses in a number of areas that contribute to General Studies program requirements.

Bachelor of Arts Degree in Integrative Studies

Nature of program

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

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

Career outlook

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

Major requirements

The Integrative Studies major consists of 39-48 semester hours with a grade of "C" (2.00) or better. Program requirements include 21 semester hours of core courses and a concentration of 18-27 semester hours.

	Semester Hours
Core courses	
Select one course from each category	
<i>Gateway Course</i>	3
IAS 300 Adult Career Development (L/SB)	
<i>Ethical Reflection</i>	3
IAS 340 Bioethics (HU)	
IAS 406 Moral Dilemmas (L/HU)	
IAS 407 Environmental Philosophy and Policy (L/HU)	
IAS 408 Feminist Ethics (HU)	
<i>Diverse Identities</i>	3
IAS 305 Work and Identity (SB)	
IAS 420 Multicultural Autobiographies (L/HU, C)	
IAS 477 World Literature (L/HU, G)	
<i>Scientific and Mathematical Perspectives</i>	3
IAS 410 Evolution of Ideas (L/HU)	
IAS 411 History and Philosophy of Mathematics (HU, H)	
IAS 415 Life in the Universe	
IAS 416 Black Holes and Beyond	
<i>Secular and Sacred Worldviews</i>	3
IAS 220 Psychology, Multicultural Narrative and Religion (L/HU, C)	
IAS 430 Science and Religion (L/HU)	
<i>IAS Elective</i>	3
<i>Capstone Course</i>	3
IAS 484 Internship	
IAS 494 ST: Research	
IAS 494 ST: Writing	

Concentration

Working with the Integrative Studies faculty advisor, students will complete the coursework 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 (see [page 83](#)). 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 Mathematics

Nature of program

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

Requirements

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

Required courses:

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

Electives

Select three courses in consultation with a mathematics advisor from:

MAT 310 Introduction to Geometry
 MAT 371 Advanced Calculus I
 MAT 411 History and Philosophy
 of Mathematics
 MAT 443 Abstract Algebra
 MAT 445 Theory of Numbers
 STP 420 Introductory Applied Statistics
 Other approved course

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.

	Semester Hours
Required lower division courses	15
Choose one computer course	
ACO 101 Introduction to Computer Science	
CIS 200 Computer Applications and Information Technology*	
CSE 110 Principles of Programming with Java*	
CSE 180 Computer Literacy	
CSE 181 Applied Problem Solving with Visual Basic*	

MAT 270 Calculus with Analytic Geometry I	
MAT 271 Calculus with Analytic Geometry II	
MAT 272 Calculus with Analytic Geometry III	
Required upper division courses	21
MAT 300 Mathematical Structures	
MAT 310 Introduction to Geometry	
MAT 342 Linear Algebra	
MAT 371 Advanced Calculus I	
MAT 411 History and Philosophy of Mathematics	
MAT 443 Abstract Algebra <i>or</i>	
MAT 445 Theory of Numbers	
STP 420 Introductory Applied Statistics	
Total	36
<i>*Complete this Tempe campus course or transfer equivalent.</i>	

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:

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

Program requirements

The Minor in Philosophy consists of 21 semester hours of Philosophy coursework, of which 15 must be upper division hours.

Fifteen semester hours of campus resident credit is required. Only courses in which the student earns a grade of “C” (2.00) or better will fulfill requirements for the minor. Courses are to be selected with a Philosophy advisor to create a coherent and complete program of study for the minor.

Requirements

Selected courses (21 semester hours)	
PHI 101	Introduction to Philosophy
PHI 103	Principles of Sound Reasoning
PHI 306	Applied Ethics
PHI 360	Business and Professional Ethics
PHI / IAS 340	Bioethics
PHI / IAS 406	Moral Dilemmas
PHI / IAS 407	Environmental Philosophy and Policy
PHI / IAS 408	Feminist Ethics
IAS / MAT 411	History and Philosophy of Mathematics
PHI / IAS 494	Special Topics
IAS 484	Internship (3 semester hours maximum)
PHI/IAS 499	Individualized Instruction (3 semester hours maximum)

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, 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 mathematics, technology, and humanities and social sciences and offers a choice of concentrations in database management, networks, and 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, as well as 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, non-profit and government agencies, digital arts media industries, and in the academic world.

Major requirements

The Applied Computing major consists of 57–63 semester hours with a grade of “C” or better.

	Semester Hours
Math foundation/core	9
MAT 210 Brief Calculus (MA)	
MAT 243 Discrete Mathematical Structures	
STP 300 Introduction to Probability	
Applied computing foundation/core	15
ACO 101 Introduction to Computer Science (CS)	
ACO 102 Principles of Computer Science (CS)	
ACO 201 Data Structures and Algorithms (CS)	
ACO 210 Introduction to Systems Programming (CS)	
ACO 220 Introduction to Database Systems (CS)	
Concentration	18-24
Select one of the following concentrations, and prepare a program of study in consultation with a program advisor:	
<i>Digital Media and Graphic Design</i>	
IAP 361 Digital Editing and Media Literacy (CS)	
IAP 365 Digital Interactivity	
IAP 466 Digital Interactivity, Advanced	
IAP 368 Digital Graphic Technologies	
IAP 468 Digital Graphic Applications	
IAP 484 Internship (6)	
<i>Database Systems</i>	
Under development	
<i>Network and Distributed Processing</i>	
Under development	
Liberal Arts Cluster	15
Select five courses in consultation with an advisor. 9 hours must be upper-division. At least one course focusing on ethics/diversity must be completed from the following:	
COM 457 New Media	
IAP 464 Media and Diversity	
IAS 406 Moral Dilemmas (L/HU)	
Total	57-63

Internship. The internship is an integral component of the program and concentration. Students will be matched carefully to the needs of the organization providing the internship. Six semester hours of internship (484) is required. At the close of the internship, the student must submit a significant paper documenting the experience and make a formal presentation.

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 will transfer as a block to the university as meeting all graduation requirements beyond the BAS requirements. BAS students will 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 comprised of the AAS degree plus a 60 semester-hour capstone requirement. The 60 semester hours must all be upper division with the exception of the mathematics (MA) course if it is needed.

BAS Core	21 semester hours
General Studies	
Completion Curriculum	13 semester hours (minimum)
Concentration	18-21 semester hours
Electives	0-8 semester hours

Core requirements (21 semester hours). The goals of the BAS core curriculum are (1) to provide an educational bridge between lower division and upper division programming, (2) to develop students' professional communication and quantitative skills, and (3) to hone students' critical and creative abilities. The BAS core includes the following:

	Semester Hours
BAS bridge	3
IAS 300 Adult Career Development	3
Management skills	3
GLB 303 Relationship Management	3
Communication skills	3
ENG 301 Writing for the Professions	3
Quantitative skills (select one)	3
EDT 321 Computer Literacy	3
SBS 304 Social Statistics I	3
Aesthetics/creativity (select one)	3
IAP 300 Introduction to Interdisciplinary Arts	3
IAP 301 Energetic Systems of Art: Collaboration in the Arts	3
THE 321 History of Theatre	3
THE 400 Focus on Film	3
Other approved Arts course	3
Ethics (select one)	3
PHI 306 Applied Ethics	3
PHI 360 Business and Professional Ethics	3
PHI 406 Moral Dilemmas	3
PHI 407 Environmental Philosophy and Policy	3
Exit project (select one)	3
— 484 Internship	3
— 493 Honors Thesis	3
— 499 Individualized Instruction	3

General Studies completion curriculum (minimum 13 semester hours). The BAS curriculum is based on the assumption that the students have completed an AAS degree program with a general studies component of approximately 18 hours. In order to complete the remainder of their university requirements, students will need to take one course in each of the following areas:

- Cultural Diversity in the U.S. (C)
- Global Awareness (G)
- Historical Awareness (H)
- Natural Science-General with lab (SG)

Social and Behavioral Sciences (SB): Students may complete the SB requirement in conjunction with one of the other program requirements.

Mathematics (MA): Students may be required to take an MA course if the mathematics course included in the AAS degree does not meet the criteria for MA. This course may be taken at the lower division.

Concentration (18-21 semester hours). In consultation with an advisor, the student will complete the course work of a minor available at the West campus (see [page 83](#)) or develop 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 the major field department. 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 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 East campus must be chosen in consultation with and approved by the department offering that coursework.

Elective credit (0-8 semester hours). Electives, if needed, will be 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 better.

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

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

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

Bachelor of Arts Degree in Interdisciplinary Arts and Performance

Nature of program

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

Student outcomes

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

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

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

Career outlook

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

Admission requirements

Admission to the Interdisciplinary Arts and Performance program requires completion of at least 15 semester hours of course work from any single or combination of arts disciplines with a grade of “C” (2.00) or better. Students with specialized training in a single art form may be admitted to the program based on portfolio assessment or audition and personal interviews.

Major requirements

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

Program requirements include:

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

Semester
Hours
15

Core courses

Media

IAP 361 Digital Editing and Media Literacy (CS)

Music

IAP 325 Sound Performance: Exploring Alternative Performance Groups

Performance Studies

Select one course from the following:

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

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

Theater/Performance

IAP 334 Conceptual Development in the Arts

Visual Art

IAP 354 Visual Representations

Concentration

Select one of the following concentrations:

Media

IAP 363 Sound, Image, and Media

IAP 364 Documentaries

IAP 365 Digital Interactivity

IAP 465 Media Technologies and the Arts

Music

IAP 321 Music Composition I

IAP 421 Music Composition II

IAP 322 Multitrack Digital Recording

IAP 323 Music and the Visual Arts

IAP 422 Contemporary Orchestration Practices

Performance Studies

IAP 371 Verbal Art (L/HU)

IAP 375 Introduction to Performance Theory (L/HU)

IAP 472 20th Century Theories of Arts and Performance

IAP 473 Aesthetic Research (L/HU)

Theater/Performance

IAP 333 Directing for Performance

IAP 431 Perspectives on Performance and Acting

IAP 434 Production Laboratory

IAP 441 Movement for Performance

Visual Art

IAP 355 Illusion and Vision

IAP 356 Spatial Impressions

IAP 457 Urban Narrative

Select one course from the following:

IAP 353 Contemporary Figure Drawing I

IAP 452 Elements of Painting

12

	Semester Hours		Semester Hours
Studies in the Arts	6	Electives	3
Select two courses from the following list or select courses from any concentration above other than the student's primary concentration:		Elective hours may be fulfilled by courses with the following prefixes at the upper division: ART, IAP, MUS, MUP, THE, THP or any lower division applied arts course with departmental approval.	
IAP 300 Introduction to Interdisciplinary Arts (HU)		IAP 480 Senior Project	3
IAP 301 Energetic Systems of Art: Collaboration in the Arts			—
IAP 302 Cross-Cultural Perspectives on the Arts (L/HU)		Total	45
IAP 303 Artists and the Contemporary American Experience			
IAP 304 The Avant-Garde to WW II (HU)		Senior Project. The goal of any senior project should be to focus the body of course work undertaken in the IAP curriculum in an orig- inal creative work or comparable experience. This work may take the form of a perform- ance (with the student as creator/producer and/or performer), or a written thesis, gallery exhibition, internship, media work or some other acceptable format.	
IAP 336 Career Skills for the Artist (L/HU)		Successful completion of a more demanding senior project for six semester hours is required for the student to graduate with departmental distinction.	
IAP 373 The Critical Artist			
IAP 464 Media and Diversity			
IAP 471 Language, Culture, and Performance (L/HU)			
MUS 340 Listening to Music (HU, H)			
MUS 349 Music in America (HU, H)			
MUS 354 Popular Music (HU)			
MUS 355 Survey of American Music			
THE 300 Film: The Creative Process (HU)			
THE 320 History of the Theatre (HU, H)			
THE 321 History of the Theatre (HU, H)			
THE 400 Focus on Film			
Topics in the Arts	6		
Select two courses from the following list or select courses from any IAP concentration other than the student's primary concentration:			
IAP 324 The Voice and Performance			
IAP 331 Performance, Acting and the Individual			
IAP 332 Technical Production for Interdisciplinary Arts			
IAP 335 Vocalization and Movement			
IAP 341 Movement Technique			
IAP 351 Concept, Image, and Text			
IAP 352 Seeing and Drawing			
IAP 433 Directing Workshop			
IAP 442 Movement and Music			
IAP 466 Digital Interactivity, Advanced			
IAP 467 Acoustic Ecology			

Minor in Interdisciplinary Arts and Performance

The minor consists of 24 semester hours in the arts. Twelve of these must be at the upper division (IAP prefix). Six of the 12 upper division credits must be selected from a sin-

gle concentration offered by the department. The other six credits must be from the IAP core courses. Twelve additional semester hours in applied arts are required.

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

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

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

Minor in Film and Video Studies

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

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

Film Studies emphasis

Course work requirements

Select two of the following foundational courses:

ENG 365 History of Film

IAP 351 Concept, Image, and Text

SOC 366 Film and Society

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

ENG 365 History of Film

IAP 351 Concept, Image, and Text

IAP 364 Documentaries

IAP 465 Media Technologies and the Arts

SOC 364 Popular Culture

SOC 365 Sociology of Mass Communication

SOC 366 Film and Society

THE 300 Film: The Creative Process

THE 400 Focus on Film

Other approved course

Select two courses from the following applied, practical courses:

COM 329 Persuasion
 COM 421 Rhetoric of Social Issues
 COM 429 Semiotics and Visual Communication
 ENG 365 History of Film
 IAP 322 Multitrack Digital Recording
 IAP 334 Conceptual Development in the Arts
 IAP 361 Digital Editing and Media Literacy
 IAP 363 Sound, Image, and Media
 IAP 364 Documentaries
 IAP 365 Digital Interactivity
 IAP 465 Media Technologies and the Arts
 IAP 466 Digital Interactivity, Advanced
 IAP 467 Acoustic Ecology
 IAP 474 Art and Film
 SOC 364 Popular Culture
 SOC 365 Sociology of Mass Communication
 SOC 366 Film and Society
 THE 300 Film: The Creative Process
 THE 394 ST: Acting for the Camera
 THE 394 ST: Television Production
 THE 400 Focus on Film
 Other approved course
 Capstone project:
 IAP 480 Senior Project

Media and Video Studies emphasis

Course work requirements

Select two of the following foundational courses:

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

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

COM 324 Rhetoric and Media Criticism
 COM 329 Persuasion
 COM 421 Rhetoric of Social Issues
 COM 429 Semiotics and Visual Communication
 ENG 365 History of Film
 IAP 322 Multitrack Digital Recording
 IAP 334 Conceptual Development in the Arts
 IAP 351 Concept, Image, and Text
 IAP 361 Digital Editing and Media Literacy
 IAP 363 Sound, Image, and Media
 IAP 364 Documentaries
 IAP 365 Digital Interactivity
 IAP 465 Media Technologies and the Arts
 IAP 466 Digital Interactivity, Advanced
 IAP 467 Acoustic Ecology
 IAP 474 Art and Film
 SOC 364 Popular Culture
 SOC 365 Sociology of Mass Communication
 SOC 366 Film and Society
 THE 300 Film: The Creative Process
 THE 394 ST: Acting for the Camera
 THE 394 ST: Television Production
 THE 400 Focus on Film
 WST 431 Women and Film
 Other approved course
 Capstone project:
 IAP 480 Senior Project

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

Certificate in Film and Video Studies

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

The Department of Language, Cultures, and History faculty offers an interdisciplinary Bachelor of Arts degree program in American Studies, Bachelor of Arts degree

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

Bachelor of Arts Degree in American Studies

Nature of program

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

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

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

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

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

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

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

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

Career outlook

The 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, law, journalism and other forms of professional writing, and in other areas where these capabilities are highly valued and sought. The program also serves as excellent preparation for law school and for graduate programs in fields such as American Studies, English, Journalism, History, and Art History. Most importantly, American Studies, by virtue of its interdisciplinary approach to the study of American cultures, systems, and lives, provides a rounded perspective, a chance to see issues and problems from a variety of angles. As such, it is ideally suited to careers in which research, analysis and planning play a central role.

Major requirements

A minimum of 36 semester hours (27 upper division) with a grade of “C” (2.00) or better is required for the Bachelor of Arts in American Studies.

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

Minor in American Studies

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

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

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

Nature of program

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

The major allows students to emphasize particular genres, periods, regions, and themes through a mix of requirements 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 better is required in all courses taken for the major.

	Semester Hours
Lower division courses required	12
ENG 221, 222 Survey of English Literature (HU, H)	
ENG 241, 242 American Literature (HU)	
Upper division courses required	15
ENG 311 Persuasive Writing (L)	
ENG 323 Rhetoric and Grammar (L)	
ENG 400 History of Literary Criticism (L/HU, H)	
ENG 473 Shakespeare	
Three semester hours in AMS or ENG upper division course work in literature of gender or ethnicity as approved by advisor	
Other requirements	
English electives (select in consultation with a faculty advisor)	18
Total	45

Minor in English

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

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

English specialization

The requirements for the Bachelor of Arts in Secondary Education with a specialization in English consist of the Professional Teacher Preparation Program for secondary majors (see the “College of Teacher Education and Leadership” section of this catalog) 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: 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 better is required in all courses taken for the major.

	Semester Hours
Lower division courses required	12
ENG 221, 222 Survey of English Literature	
ENG 241, 242 American Literature	
Upper division courses required	12
ENG 311 Persuasive Writing	
ENG 323 Rhetoric and Grammar	
ENG 473 Shakespeare	
One course in the literature of ethnicity or gender as approved by advisor	
Other requirements	
English electives (select in consultation with a faculty advisor)	15
Total	39

English minor

The program requires 21 semester hours in English, at least 12 of which must be in upper division courses. The minor focuses on material most frequently taught in Arizona high schools.

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

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 will a) learn and practice writing in the various styles and genres; b) be introduced to computer technology relevant to writing and publishing; c) discuss theoretical and pedagogical applications for classroom practices; and d) be 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.

Comprised 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 students' majors and internships are optional elements of the certificate.

At the discretion of the director of the program, students may fulfill a maximum of 9 semester hours of the requirements for the certificate with a) courses taken prior to formal admission; b) courses taken to fulfill requirements of other programs; or c) courses taken in other institutions.

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 coursework, 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 better 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.

AMS 490 Writing Certificate Portfolio (required).

Students will assemble a portfolio of writing that demonstrates their grasp of the skills presented during their program of study, for which they will earn one semester hour.

Electives. Course selections are chosen from the following in consultation with the director of the program:

AMS/ENG 219	Newspaper Production (3)
AMS 301	Introduction to American Studies (3)
AMS 342	Writing about American Culture (3)
AMS 344	Creative Writing (3)
AMS 345	Reporting (3)
AMS 346	Editing (3)
ENG 210	Introduction to Creative Writing (3)
ENG 301	Writing for the Professions (3)
ENG 311	Persuasive Writing (3)
ENG 316	Writing and Arguing Politics (3)
ENG 323	Rhetoric and Grammar (3)
ENG 394	ST: Research and Writing (3)
ENG 412	Writing for Publication (3)
COM 320	Communication and Consumerism (3)
COM 329	Persuasion (3)
COM 353	Professional Communication (3)
COM 414	Crisis Communication (3)
COM 484	Internship (1-3)
IAP 351	Concept, Image, and Text (3)
IAP 361	Digital Editing and Media Literacy (3)
IAP 394	Writing/Performance Seminar (3)
IAP 465	Media Technologies and the Arts (3)
AMS 494	ST: Freelance Photography (1)
AMS 494	ST: Writing Historical Fiction (1)
AMS/ENG 394	ST: Comedy Writing (1)
AMS/ENG 394	ST: Desktop Publishing (1)
AMS/ENG 394	ST: Magazine Publication (1)
AMS/ENG 394	ST: Scriptwriting (1)
AMS/ENG/IAP 494	ST: HTML Creating a Web Page (1)
AMS/ENG 494	ST: Layout and Design (1)
AMS/ENG 494	ST: Selling Your Writing (1)

Or other courses offered under the ENG or AMS designation or another prefix, all of which must be approved by the director of the program.

Capstone Project (optional). An approved capstone experience from the student's major (or AMS 498) may fulfill 1-3 semester hours.

Internship (optional). Students may fulfill 1-3 semester hours through an internship with a company, agency, or publication related to the student's planned career.

Nature of program

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

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

Career outlook

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

Major requirements

The Bachelor of Arts degree in History requires a minimum of 45 semester hours with a grade of “C” (2.00) or better. Program requirements include:

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

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

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

	Semester Hours
Core requirements	
<i>Lower or upper division requirements:</i>	
A two semester survey in United States History or European History or World History This requirement may also be satisfied by six hours of supporting course work in one of the following upper division survey sequences:	6
American Survey	
AMS 310/HIS 305	American Systems I (L, H, C) <i>or</i>
AMS 320/HIS 303	American Cultures I (SB, H) and
AMS 311/HIS 306	American Systems II (H) <i>or</i>
AMS 321/HIS 304	American Cultures II (SB, H) <i>or</i>
AMS 330	Introduction to American Lives (HU)
European Survey	
HIS 355	World History to 1500 (G, H) <i>and</i>
HIS 356	World History since 1500 (G, H)
<i>Upper division requirements:</i>	
HIS 300	Historical Methods (L, H) 3
HIS 498	History Pro-seminar (L) 3

Total 12

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

Supporting course work. A minimum of 15 hours of supporting course work may be taken in American Studies, Ethnic Studies,

English and American literature, Religious Studies, foreign language courses, or in other related fields as approved by the History faculty advisor.

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

Minor in History

The minor in History consists of 18 semester hours of history course work with a grade of “C” (2.00) or better, of which six semester hours may be lower division.

Lower or upper division requirements:

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

Semester
Hours

6

American Survey	
AMS 310/HIS 305	American Systems I <i>or</i>
AMS 320/HIS 303	American Cultures I <i>and</i>
AMS 311/HIS 306	American Systems II <i>or</i>
AMS 321/HIS 304	American Cultures II <i>or</i>
AMS 330	Introduction to American Lives
European Survey	
HIS 355	World History to 1500 <i>and</i>
HIS 356	World History since 1500

Upper division requirements:

HIS 300	Historical Methods	3
Select three history electives		9

Total		18
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History specialization

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

	Semester Hours
History requirements:	
1. U.S. History Survey	6
HIS 103, 104 The United States <i>or</i>	
HIS 303, 304 American Cultural History <i>or</i>	
HIS 305 History of American Systems	
to 1865 <i>and</i>	
HIS 306 History of American Systems	
since 1865	

	Semester Hours
2. HIS 300 Historical Methods	3
3. U.S. History (upper division; may choose	
3 hours from HIS 303, 304, 305,	
or 306 if not yet taken)	9
4. Non-U.S. History (6 upper division hours)	9
Total	<u>27</u>

Supporting course work. 12 semester hours of supporting course work, including six upper division hours to be approved by the BAE History advisor.

Bachelor of Arts Degree in Spanish

Nature of program

The Spanish program consists of three tracks: language, literature, and cultures. These tracks are integrated within the discipline and with other disciplines within the 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, will provide stimulating linguistic and cultural rewards outside of the campus environment.

Career outlook

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

Major requirements

The Spanish major consists of a minimum of 45 semester hours, of which at least 30 hours are in Spanish (SPA) courses and 15 are in related courses to be selected in consultation with an Arts and Sciences academic advisor. Of the 30 hours in Spanish, at least 24 upper division hours are required, with at least nine hours at the 400 level. A minimum grade of “C” (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.

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

Minor in Spanish

The minor in Spanish consists of 20 hours of Spanish course work, of which 12 hours must be upper division. All Spanish course work must be completed with a minimum grade of “C” (2.00). The following courses are required:

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

The Department of 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 inter-

disciplinary 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.

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

Nature of program

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

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

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

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

Career outlook

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

Major requirements

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

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

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

Interdisciplinary Social Sciences emphasis

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

Interdisciplinary Behavioral Sciences emphasis

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

Alternative options for electives in either emphasis.

All course substitutions must be appropriately related to the student's interdisciplinary program of study within the major, as determined in consultation with and approved by a faculty advisor. A grade of "C" (2.00) or better is required of all substitutions. The student may elect to combine options.

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

Minor in Social and Behavioral Sciences

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

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

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

The remaining courses must be drawn from at least two of the fields of social and behavioral sciences (including the SBS interdisciplinary prefix). Internships or individualized instruction/research may not be applied to the minor. All courses must be passed with a minimum grade of “C” (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.

Bachelor of Arts and Bachelor of Science Degrees in Political Science

Nature of 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 coursework in political theory, American political institutions, and international relations and world affairs. These goals are accomplished by offering a flexible program of coursework 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 concrete policy issues in the greater Phoenix metropolitan area, the State of 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 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 non-profit) 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 bor-

der. 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

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 hours in Political Science must be in upper division courses.

Required core

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

Political Science electives. Select 18 semester hours from among other POL courses, not including POL Internships.

Electives in internships and related fields. Select 12 semester hours from among courses in:

1. POL 484 Internship (No more than 6 hours may be applied toward the major)
2. Anthropology, Communication Studies, Criminal Justice and Criminology, Economics, Geography, History, Psychology, Social and Behavioral Sciences, Sociology, and Women's Studies
3. Other courses approved by the departmental adviser.

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 hours are required for the BS degree, including three hours in Political Science and three hours in SBS 304 Social Statistics I (CS). For the BS, at least 21 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 hours of which must be in upper division courses. The following courses are required for a Minor in Political Science, of which three hours must be in upper division courses:

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

No more than three hours of internship and three hours of individualized instruction may be applied to the minor.

Nature of program

Psychology is the scientific study of the behavior and mental processes of individuals and groups. The 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 hours. Required course work in the major, or the equivalent, which 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.

Required lower division courses

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

Required upper division psychology courses

One course from the following:

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

One course from the following:

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

Additional required psychology courses

1. one additional upper division PSY course (excluding PSY 394 Special Topics, PSY 494 Special Topics, and PSY 499 Individualized Instruction);
2. two additional upper division psychology courses (PGS or PSY); and
3. two additional psychology courses (excluding PGS 270 Psychology of Adjustment).

No more than a total of three hours in PGS 399 Supervised Research or PGS/PSY 499 Individualized Instruction may be used to complete the major requirements.

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

One course from among:

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

For the Bachelor of Arts in Psychology:

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

For the Bachelor of Science in Psychology:

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

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

*Complete this Tempe campus course or transfer equivalent.

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

Required lower division courses

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

Required upper division courses

One from the following:

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

One from the following:

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

Two additional upper division psychology courses are required (PGS or PSY). A maximum of three hours of research (PGS 399 Supervised Research and PGS/PSY 499 Individualized Instruction) may be used to meet the minor requirements. Students with an appropriate equivalent course may exclude PSY 230 Introduction to Statistics and PSY 290 Research Methods from the requirements 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).

Bachelor of Arts and Bachelor of Science Degrees in Sociology

Nature of 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 this degree will learn how sociology 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 as well as develop research skills necessary for analysis of complex social issues. These are accomplished by offering a flexible program and by providing the student with both indi-

vidual and group experiences in working with faculty on concrete intellectual and policy issues.

Career outlook

Graduates with a baccalaureate degree in sociology apply the sociological perspective to a wide variety of jobs in such sectors as business, the health professions, the criminal justice system, social services, and government. The discipline also offers valuable preparation for careers in journalism, politics, public relations, or public administration, all fields that involve investigative skills and an ability to work with diverse groups. Graduates with an advanced degree in sociology may become research analysts, survey researchers, gerontologists, statisticians, urban planners, community developers, criminologists, or demographers.

Major requirements

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

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

Semester Hours

BA BS

18 18

Cluster requirements

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

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

Electives

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

15 12

Minor in Sociology

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

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

Social Studies specialization

The requirements for the Bachelor of Arts in Secondary Education with a specialization in Social Studies consist of the Professional Teacher Preparation Programs for Secondary Education majors (see the “College of Teacher Education and Leadership” section of this catalog) and 39 semester hours in social and behavioral sciences coursework.

	Semester Hours
Required courses include	
Economics	
ECN 111 Macroeconomics	3
ECN 112 Microeconomics	3
History	
HIS 300 Historical Methods	3
HIS 443 Constitutional History of the United States	3
<i>Select one pair of courses from the following:*</i>	6
HIS 103 The United States and	
HIS 104 The United States	
HIS 303 American Cultural History and	
HIS 304 American Cultural History	
HIS 305 History of American Systems to 1865 and	
HIS 306 History of American Systems since 1865	

<i>Select two courses from the following:*</i>	6
HIS 100 Western Civilization	
HIS 101 Western Civilization	
HIS 102 Western Civilization	
HIS 355 World History to 1500	
HIS 356 World History since 1500	
Political Science	
<i>Select one course from the following:</i>	3
POL 101 Political Ideologies	
POL 340 Political Theory	
POL 446 Democracy	
<i>Select one course from the following:</i>	3
POL 160 Global Politics or	
POL 360 World Politics Theory	
<i>Select one course from the following:</i>	3
POL 460 Politics of Globalization	
POL 486 Global Political Economy	
Anthropology, Geography, Sociology	
<i>Select two courses from the following:</i>	6
ASB 311 Principles of Anthropology	
ASB 340 Migration and Culture	
GCU 357 Social Geography	
SOC 352 Social Change	
SOC 456 Political Sociology	
Total	39

* A maximum of nine hours of History courses may be lower division.

Minor in Sociocultural Anthropology

The Sociocultural Anthropology minor focuses on sociocultural anthropology with an interdisciplinary social science component. The minor requires 18 semester hours, at least 12 hours of which must be in upper division courses. Two courses, ASB 311 and SBS 302, are required. The other 12 hours may be drawn from ASB courses and from several key SBS courses in the interdisciplinary social science degree. All courses must be passed with a minimum grade of “C” (2.00).

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

Required upper division courses:	
ASB 311	Principles of Social Anthropology
SBS 302	Qualitative Methods
Select 12 hours from the following:	
ASB 319	Indigenous Peoples of North America
ASB 340	Migration and Culture
ASB 346	Marriage and Family Diversity
ASB 350	Anthropology and Art
ASB 353	Death and Dying in Cross-Cultural Perspective
ASB 440	Women and the Global Factory
ASB 441	Sexuality and Culture
ASB 442	Urban Anthropology
ASB 394/494	Special Topics
ASB 499	Individualized Instruction (3 hours maximum)
SBS 301	Cultural Diversity
SBS 410	Topics in Identity/Difference
SBS 430	Topics in Power/Knowledge
SBS 440	Family Studies
SBS 450	Topics in Local/Global
SBS 460	Urban Studies
Other approved course	

Nature of program

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 coursework that matches their career and educational goals.

Career outlook

The minor is relevant to students who seek employment in corporate and small business, governmental agencies, and non-profit organizations, such as in the health professions, social services, education, public relations, and community services. The minor is also good preparation for students seeking 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. Students, however, 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.

	Semester Hours
Required courses	12
1. Research Methods Course (SBS advisor's approval required)	
2. PGS 453 Organizational Behavior	
3. PGS 430 Industrial Psychology or SBS 461 Program Evaluation and Policy Research	
4. SOC 419 Organizations and Technological Change	
Electives	9
Cluster 1: Courses focused on organizations	
<i>Select two courses or Internship plus one course from the following:</i>	
COM 450 Theory and Research in Organizational Communication ²	
COM 451 Employee Participation Processes in Organizations ²	
COM 453 Communication Training and Development ²	
GLB 303 Relationship Management	
MGT 301 Principles of Management	
MGT 412 Managing Human Resources	
PGS 430 Industrial Psychology ¹	
PGS 482 Social Influence and Consumer Behavior	
PHI 360 Business and Professional Ethics	
REC 301 Leadership in Recreation and Tourism	
SBS 461 Program Evaluation and Policy Research ¹	
SOC 324 Work and the Workplace	
Other approved course	
<i>Recommended Option</i>	
— 484 Internship in Organizations Course prefix (e.g., PGS, COM, SOC) and internship site approved by the SBS advisor.	
Cluster 2: Courses focused on diversity within organizations	
<i>Select one course from the following:</i>	
COM 463 Cultural and Intercultural Communication Theory & Research ²	
PGS 480 Cross-Cultural Social Psychology	
POL 435 Women, Power, and Politics	
SOC 370 Racial and Ethnic Minorities	
SOC 400 Perspectives on Aging	
SOC 426 Social Inequality	
WST 350 Race, Class, and Gender	
WST 487 Gender and International Development	
Other approved course	
¹ Course may be selected if not used to fulfill core requirements	
² Prerequisites: COM 308 and COM 309 may be waived for non- Communication Studies majors	

Nature of program

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

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

- To stand as a visible example of the university's commitment to improve the status of women.

Women's Studies offers the following academic programs:

BA, BS Women's Studies
Certificate in Women's Studies

Women's Studies Resource Center

As a multi-component program of Women's Studies, the Women's Studies Resource Center supports research pertaining to local, national and global issues in Women's Studies. See [page 25](#) for more information.

Career outlook

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

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

Major requirements

The major consists of 45 semester hours, 30 in Women's Studies and 15 in a coherent set of related courses. At least 30 of the 45 semester hours required for the major must be completed in upper division

courses. In addition, for the BS degree, students must complete six hours of statistics, computer science, or quantitative research methods. This sequence must be approved by the Women's Studies advisor.

Core requirements. (21 hours)

1. WST 100 Women and Society (SB, C) *or*
WST 300 Women in Contemporary Society (SB, C)
2. WST 350 Race, Class, and Gender (SB, C)
3. WST 457 Women, Cultures, and Societies (SB, G)
4. WST 498 Proseminar: Theory and Method in Women's Studies (L)
5. One course with a *global perspective* selected from the following:
WST 390 Women and World Religions (L/SB, G)
WST 475 Women of the Diaspora Across Cultures (HU, G)
WST 483 Contemporary Women Writers (HU, G)
WST 487 Gender and International Development (SB, G)
or other approved course
6. One course with a *focus on representation* selected from the following:
WST 370 Chronicling Women's Lives (HU, C)
WST 376 Feminist Theory (L, C)
WST 467 Ethnic Women Writers (L/HU, C)
WST 473 Latina/Chicana Representation (SB, C)
or other approved course
7. One course with *focus on culture studies* selected from the following:
WST 320 Women in Popular Culture (HU, C)
WST 431 Women and Film (L, G)
or other approved course

No course may be used to satisfy more than one of these seven core requirements. Students must complete all course work

in the major with a grade of "C" (2.00) or better. No pass/fail credit may be used for major requirements.

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

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

Certificate Program in Women's Studies

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

program is recommended for graduate students, 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.

Ethnic Studies Program

Director: Gloria H. Cuádras, PhD
Program Coordinator: Doris Roman
Location: FAB N205A (602) 543-6007

Nature of program

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

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

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

3. develop more effective skills for working in diverse communities through integration of service-learning experiences in course content; and
4. create collaborations among faculty, students, and community members to address concrete issues facing racial and ethnic groups in the United States.

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

Minor in Ethnic Studies

The minor consists of 21 semester hours, 15 of which must be at the upper division level. Students are encouraged to take courses that develop breadth rather than limiting their selection to courses in one particular discipline. Up to three semester hours of individualized instruction may be applied toward the minor. All courses must be passed with a minimum grade of "C" (2.00).

Required courses

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

Electives

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

Semester
Hours
6

15

Certificate in Ethnic Studies

The Certificate Program is recommended for graduate students, non-degree students, and students with majors in professional programs. A certificate in Ethnic Studies is

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

Religious Studies Minor

Minor in Religious Studies

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

The Minor in Religious Studies consists of 21 semester hours of Religious Studies coursework, of which 18 must be upper division hours. Fifteen hours of campus resident credit is required. Only courses in which the student earns a minimum grade of “C” (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

At least one course from the following:

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

At least two courses from the following:

- REL 305 Ritual, Symbol, and Myth
- REL/WST 390 Women and World Religions
- ENG 424 Milton
- HIS 363 The Reformation
- IAS/REL 494 Science and Religion
- AMS/REL 494 Psychology of Religion

At least one Special Topics Course:

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

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

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

Other approved courses

- AMS/IAS/WST 484 Internship
- AMS/COM/IAS/REL/WST 499 Individual Instruction or Senior Thesis

Master of Arts Degree in Interdisciplinary Studies

Master of Arts Degree in Interdisciplinary Studies

Associate Dean: Candice Bredbenner, PhD
Location: FAB N203D
(602) 543-6241

Nature of program

The Master of Arts Degree in Interdisciplinary Studies is a graduate program designed to respond to the needs of postbaccalaureate students who wish to pursue an advanced degree for (1) job advancement or redirection, (2) personal development and intellectual growth, or (3) preparation for further graduate study. Prospective students

include those working in the public educational system, particularly secondary education teachers who intend to increase and integrate their knowledge in content areas; those employed in the corporate sector and social service system; and professionals who wish to return to the university and pursue enrichment in liberal arts areas.

The Master of Arts degree in Interdisciplinary Studies will comprise 30 hours of coursework. Three required core courses will develop advanced critical thinking skills and knowledge of current research tools, technologies, and methodologies in a variety of fields. Working with a faculty mentor, each student will plan a set of emphasis courses to meet their educational goals. Emphasis courses may be selected from graduate course offerings from departments throughout the New College of Interdisciplinary Arts and Sciences as well as from other colleges and schools when approved by the director. Examples include a plan to study ethics and environment, media and ethnicity, urban studies, and the arts. The program of study may include one elective course and will conclude with a capstone experience requiring a written or applied project.

Admission

Admission to the master's program is open to:

1. holders of baccalaureate degrees from institutions with regional accreditation;
2. those who show promise of success as demonstrated by previous schooling and experience;
3. those who have academic and career goals that are compatible with the educational objectives of the program; and
4. those who have taken the Graduate Record Examination (GRE). This requirement may be waived if the applicant has attended a graduate or professional school that required a standardized admission test.

Application. Application packets are available from the Office of Graduate Studies and the Master of Arts in Interdisciplinary Studies Program Office. The Office of Graduate Studies must receive the application, application fee and an official transcript from every university or institution attended before an application can be considered. GRE scores must be sent directly to ASU. On the appropriate program forms, letters of recommendation, a resume, a writing sample, and a

personal statement must be sent to the program office. The application deadline is March 15 for fall semester.

Students may elect to take the degree in conjunction with the graduate Certificate in Gerontology (see [page 129](#)).

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

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

All other information for admission processing should be sent to:

MA in Interdisciplinary Studies Program
New College of Interdisciplinary Arts and Sciences
Arizona State University at the West campus
P.O. Box 37100
Phoenix, AZ 85069-7100

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

Program requirements

The MA in Interdisciplinary Studies is a 30 semester hour degree program that includes:

	Semester Hours
Required courses	
MAS 500 Perspectives in Interdisciplinary Studies	3
MAS 501 Models of Inquiry for Contemporary Issues	3
MAS 505 20th Century Thought: Concepts of Change, Culture, Mind	3
MAS 585 Capstone Course	3
Emphasis area	15-18
Elective	0-3

Emphasis area. Working with a faculty mentor, students will select 15-18 semester hours of graduate level coursework that reflect a particular area of specialty or interest.

Applied Computing

ACO 101 Introduction to Computer Science (3)

fall

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.

ACO 102 Principles of Computer Science (3)

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.

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.

ACO 210 Introduction to Systems Programming (3)

spring

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

ACO 220 Introduction to Database Systems (3)

spring

Introduction to 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.

American Studies

AMS 219 Newspaper Production (3)

selected semesters

Students will work on campus newspaper to learn basics of news and column writing, digital photography and layout. Cross-listed as ENG 219. Prerequisite: ENG 102 (or 105). General studies: L.

AMS 301 Introduction to American Studies (3)

fall

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

AMS 310 American Systems (3)

fall

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

AMS 311 American Systems (3)

spring

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

AMS 314 Military Studies (3)

selected semesters

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

AMS 316 American Religious Systems (3)

selected semesters

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

AMS 320 American Cultures (3)

fall

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

AMS 321 American Cultures (3)

spring

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

AMS 322 Studies in American Literature (3)

selected semesters

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

AMS 323 Studies in American Art and Architecture (3)

selected semesters

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

AMS 326 Popular Culture (3)

selected semesters

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

AMS 327 Regional Cultures (3)

selected semesters

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

AMS 330 Introduction to American Lives (3)

fall, spring

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

General studies: HU.

AMS 332 Studies in Race and Ethnicity (3)

selected semesters

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

AMS 334 The American Class System (3)

selected semesters

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

AMS 335 American Biography (3)

selected semesters

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

AMS 342 Writing about American Culture (3)

selected semesters

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

AMS 344 Creative Writing (3)

selected semesters

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

AMS 345 Reporting (3)

selected semesters

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

AMS 346 Editing (3)

selected semesters

Theory and practice of editing.

AMS 351 Technical Writing (3)

fall

Computer-based instruction in writing documents for on-line, 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).

AMS 412 Studies in American Politics and Law (3)

selected semesters

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

AMS 414 Military Studies (3)

selected semesters

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

AMS 417 Religious Traditions of the American Southwest (3)

spring

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

General studies: C.

AMS 422 Studies in American Literature (3)

selected semesters

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

AMS 428 Chicano Cultures in the Southwest (3)

fall

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

AMS 429 Interdisciplinary Topics (3)

selected semesters

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

AMS 431 Gender Studies (3)

selected semesters

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

AMS 432 Studies in Race and Ethnicity (3)

selected semesters

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

Key to General Studies

Credit Abbreviations

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MA Mathematics core courses

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HU Humanities and fine arts core courses

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SG Natural sciences-general core courses

SQ Natural sciences-quantitative core courses

C Cultural diversity in the United States courses

G Global awareness courses

H Historical awareness courses
, and
/ or

AMS 490 Writing Certificate Portfolio (1)*fall, spring, summer*

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

AMS 494 Special Topics (3)*fall, spring*

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

AMS 498 Proseminar (3)*spring*

Senior-level exit seminar for American Studies majors.

Anthropology

ASB 102 Introduction to Cultural and Social Anthropology (3)*selected semesters*

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

ASB 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

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.

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

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

ASB 340 Migration and Culture (3)*spring*

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

ASB 346 Marriage and Family Diversity (3)*fall, spring*

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

ASB 350 Anthropology and Art (3)*selected semesters*

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

ASB 353 Death and Dying in Cross-Cultural Perspective (3)*fall, 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. General studies: HU/SB, G.

ASB 394 Special Topics (3)*fall, spring*

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

ASB 440 Women in the Global Factory (3)*selected semesters*

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

ASB 441 Sexuality and Culture (3)*selected semesters*

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

ASB 442 Urban Anthropology (3)*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.

Art

ART 301 Photography II (3)*selected semesters*

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

ART 304 Advanced Photography (3)*selected semesters*

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

ART 314 Life Drawing II (3)*selected semesters*

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

ART 323 Painting II (3)*selected semesters*

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

ART 324 Painting III (3)*selected semesters*

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

ART 325 Figure Painting (3)

selected semesters

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

ART 394 Special Topics (3)

selected semesters

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

ART 414 Advanced Life Drawing (3)

selected semesters

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

ART 425 Advanced Figure Painting (3)

selected semesters

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

ART 598 Special Topics (3)

selected semesters

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

Art Auxiliary

ARA 460 Gallery Exhibitions (3)

selected semesters

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

Art History

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.

ARS 102 Art of the Western World II (3)

spring

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

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

selected semesters

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

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

selected semesters

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

ARS 494 Special Topics (3)

selected semesters

Topics may include art of the Southwest.

Astronomy

AST 111 Introduction to Solar Systems

Astronomy (3)

fall

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

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

spring

Structure and evolution of stars, star clusters, galaxies, cosmology. For non-science majors. Optional lab (AST 114). General studies: SQ (if credit also earned in AST 114).

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).

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).

AST 494 Special Topics (1-4)

selected semesters

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

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H Historical awareness courses

, and / or

Biology

BIO 100 The Living World (4)

fall, spring

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

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. 3 hours lecture, 3 hours lab. Intended for life sciences, biology, and health-related science majors. Fee. General studies: SG.

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

Chemistry

CHM 101 Introductory Chemistry (4)

spring

Elements of general chemistry. Designed for non-majors. Credit is allowed for only CHM 101 or 107 or 113 or 114 or 117. 3 hours lecture, 3 hours lab. Fee. General studies: SQ.

CHM 113 General Chemistry (4)

fall

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

CHM 115 General Chemistry with Qualitative Analysis (5)

spring

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

CHM 331 General Organic Chemistry Lecture I (3)

fall

Chemistry of organic compounds. Prerequisite: CHM 115.

CHM 332 General Organic Chemistry Lecture II (3)

spring

Continuation of CHM 331. Prerequisite: CHM 331.

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.

CHM 336 General Organic Chemistry Laboratory II (1)

spring

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

Dance History

DAH 300 Introduction to Dance (3)

selected semesters

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

DAH 301 Philosophy and Criticism of Dance (3)

selected semesters

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

English

ENG Note: 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.

ENG 101 First-Year Composition (3)

fall, spring, summer

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

ENG 102 First-Year Composition (3)

fall, spring, summer

Critical reading and writing; emphasis on strategies of academic discourse. Research paper required. Prerequisite: a grade of "C" (2.00) or higher in ENG 101.

ENG 105 Advanced First-Year Composition (3)

selected semesters

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

ENG 200 Critical Reading and Writing About Literature (3)

selected semesters

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

ENG 210 Introduction to Creative Writing (3)

selected semesters

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

ENG 213 Introduction to the Study of Language (3)

selected semesters

Language as code; phonetics, phonology, morphology, and syntax; the lexicon; language acquisition; sociolinguistics. Prerequisite: See ENG note.

ENG 219 Newspaper Production (3)

selected semesters

Students will work on campus newspaper to learn basics of news and column writing, digital photography and layout. Cross-listed as AMS 219. Prerequisite: See ENG note. General studies: L.

ENG 221 Survey of English Literature (3)

fall, spring, summer

Medieval, Renaissance, and 18th-century literature. Emphasis on major writers and their works in their literary and historical contexts. Prerequisite: See ENG note. General studies: HU, H.

ENG 222 Survey of English Literature (3)

fall, spring, summer

Romantic, Victorian, and 20th-century literature. Emphasis on major writers and their works in their literary and historical contexts. Prerequisite: See ENG note. General studies: HU, H.

ENG 241 American Literature (3)

fall, spring, summer

From colonial times to the Civil War, including the growth of nationalism and romanticism. Prerequisite: See ENG note. General studies: HU.

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. Prerequisite: See ENG note. General studies: HU.

ENG 301 Writing for the Professions (3)

fall, spring, summer

Advanced practice in writing and editing expository prose. Primarily for preprofessional majors. Prerequisite: See ENG note. General studies: L.

ENG 305 Classical and Biblical Backgrounds to Literature (3)

selected semesters

Selected readings from the Bible and Greek and Latin literature in translation, emphasizing ideas, forms, and myths related to the development of English literature. Prerequisite: See ENG note. General studies: HU.

ENG 311 Persuasive Writing (3)

fall, spring, summer

An advanced writing course that focuses on persuasive writing for diverse audiences. Prerequisite: See ENG note. General studies: L.

ENG 316 Writing and Arguing Politics (3)

selected semesters

A course in logical argumentation and writing, enabling students to analyze and construct arguments. Prerequisite: See ENG note. General studies: L.

ENG 317 Cross-Cultural Writing (3)

fall

The course deals with cultural differences and their impact on writing and/or their role in miscommunication and misinterpretation. Prerequisite: See ENG note. General studies: L/HU, G.

ENG 323 Rhetoric and Grammar (3)

fall, spring, summer

A practical course taught in the computer lab. Emphasizes rhetorical strategies and grammar for writers. Prerequisite: See ENG note. General studies: L.

ENG 337 Major American Novels (3)

selected semesters

Novels from the 19th century to the present studied in their historical and cultural contexts. Cross-listed as AMS 322. Prerequisite: See ENG note. General studies: L/HU.

ENG 352 Short Story (3)

once a year

Development of the short story as a literary form; analysis of its technique from the work of representative authors. Prerequisite: See ENG note. General studies: L/HU.

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

selected semesters

Focus on the history of African-American literature through the Harlem Renaissance, as exemplified in selected slave narratives, poems, and fiction. Prerequisite: See ENG note. General studies: L/HU, C.

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. Prerequisite: See ENG note. General studies: L/HU, C.

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G Global awareness courses

H Historical awareness courses

, and / or

ENG 359 American Indian Literature (3)*selected semesters*

Selected oral traditions of American Indians and their influences on contemporary Native American literary works. Prerequisite: See ENG note. General studies: L/HU, C.

ENG 360 Western American Literature (3)*selected semesters*

Critical examination of ideas and traditions of the literature of the western United States. Prerequisite: See ENG note. General studies: L/HU.

ENG 363 Chicano Literature (3)*selected semesters*

Development of Chicano literature; study of genres and themes; attention to literary antecedents. Prerequisite: See ENG note. General studies: HU, C.

ENG 365 History of Film (3)*selected semesters*

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

ENG 369 Science Fiction and Fantasy (3)*selected semesters*

Development of science fiction and fantasy literature. May be repeated for credit when topics vary. Prerequisite: See ENG note. General studies: HU.

ENG 386 American Gothic (3)*selected semesters*

The development of modern American Gothic as a literary form from Poe to Oates. Emphasis on the short story. Prerequisite: See ENG note. General studies: L/HU.

ENG 394 Special Topics (3)*selected semesters*

Topics may include writing and American culture. Prerequisite: See ENG note.

ENG 400 History of Literary Criticism (3)*fall, spring*

Major critics and critical traditions in the western world. Prerequisite: 6 hours of literature or instructor approval. Prerequisite: See ENG note. General studies: L/HU, H.

ENG 412 Writing for Publication (3)*fall, spring*

Lectures and conferences concerning techniques of writing for publication. May be repeated for credit when topics vary. Prerequisite: See ENG note.

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. Prerequisite: See ENG note. General studies: HU.

ENG 417 Erotic Writing in the Renaissance (3)*selected semesters*

A course addressing the relation between erotic representation, gender, and sexuality in early modern Europe and England. Prerequisite: See ENG note. General studies: L/HU.

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. Prerequisite: See ENG note. General studies: L/HU.

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

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

ENG 424 Milton (3)*selected semesters*

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

ENG 425 Romantic Poetry (3)*selected semesters*

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

ENG 431 Whitman and Dickinson (3)*selected semesters*

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

ENG 432 The American Renaissance (3)*selected semesters*

Novels, poetry, short fiction, and criticism of the major literary figures of the early to mid-nineteenth century. Prerequisite: See ENG note. General studies: HU.

ENG 433 Southern Writers (3)*selected semesters*

An analysis of Southern culture through the eyes of the region's novelists, short story writers, poets, filmmakers, photographers, and song writers. Prerequisite: See ENG note.

ENG 437 The American Novel, 1900 - 1960 (3)*selected semesters*

Developments in theory and practice of major novelists. Prerequisite: See ENG note. General studies: L/HU.

ENG 438 American Novel since 1960 (3)*selected semesters*

Major novelists of the period. Developments in theory and practice. Prerequisite: See ENG note. General studies: L/HU.

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

A course focusing on the British novel from the 18th century to the present. Prerequisite: See ENG note. General studies: HU.

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

A course focusing on the representation of gender in literature. Prerequisite: See ENG note. General studies: L/HU.

ENG 455 Contemporary Women Writers (3)
once a year
 Critical examination of literature by contemporary women writers. May be repeated for credit when topics vary. Prerequisite: See ENG note. General studies: HU.

ENG 460 Ethnic Women Writers (3)
once a year
 Concentrates on selected women writers of the U.S. who are Native American, black, Hispanic, and Asian-American. Cross-listed as WST 467. Prerequisite: See ENG note. General studies: L/HU, C.

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. Prerequisite: See ENG note. General studies: HU, G.

ENG 463 African-American Literature (3)
once a year
 Thematic and cultural study of African-American literature. Prerequisite: See ENG note. General studies: HU, C.

ENG 473 Shakespeare (3)
fall, spring
 A selection of comedies, histories, and tragedies. Prerequisite: See ENG note.

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. Prerequisite: See ENG note. General studies: L/SB/HU, C.

ENG 477 World Literature (3)
spring
 Introduces students to world literature, mostly outside the United States and England. Cross-listed as IAS 477. Prerequisite: See ENG note. General studies: L/HU, G.

ENG 478 Modernist Literature (3)
selected semesters
 Focuses on the international nature of Modernist literature. Authors studied may include Proust, Kafka, Joyce, and Woolf. Prerequisite: See ENG note. General studies: HU.

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. Prerequisite: See ENG note. General studies: HU, G.

ENG 494 Special Topics (3)
selected semesters
 Topics may include writing practicum. Prerequisite: See ENG note.

Ethnic Studies

ETH 100 Introduction to Ethnic Studies (3)
fall, spring
 This course undertakes an introductory comparative analysis of ethnic groups to understand cultural diversity within the United States. General studies: SB, C.

ETH 300 Principles of Ethnic Studies (3)
fall, spring
 The objective of this course is to familiarize students with a range of analytical and theoretical frameworks in the field of ethnic studies. General studies: C.

ETH 484 Ethnic Studies Internship (3)
fall, spring, summer
 Seminar with structured practical experience in the field and/or in community organizations.

Family Studies

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

FAS 330 Personal Growth in Human Relationships (3)
fall, spring, summer
 Personal development and behavior as related to competency in interpersonal relationships with the family. Processes of family interaction. Prerequisites: PGS 101, SOC 101 or equivalent. General studies: SB.

FAS 331 Marriage and Family Relationships (3)
fall, 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.

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

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general core courses
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quantitative core courses

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 , and
 / or

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

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

Cultural Geography**GCU 352 Political Geography (3)***spring*

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

GCU 357 Social Geography (3)*selected semesters*

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

GCU 361 Urban Geography (3)*selected semesters*

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

GCU 373 Introduction to Geographic Information Science (4)*fall*

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

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

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

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

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

History**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.

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.

HIS 103 The United States (3)*fall*

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

HIS 104 The United States (3)*spring*

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

HIS 300 Historical Methods (3)*fall*

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

HIS 301 Writing in History (3)*once a year*

Focuses on methods of writing, reasoning, and arguing in American Studies. Emphasizes the drafting of summaries and short arguments. Cross-listed as AMS 301. Prerequisite: ENG 101 (or 105). General studies: L.

HIS 303 American Cultural History (3)*fall*

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

HIS 304 American Cultural History (3)*spring*

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

HIS 305 History of American Systems to 1865 (3)*fall*

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

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

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

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

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

HIS 331 American Indians (3)*fall*

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

HIS 340 American Military History (3)*selected semesters*

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

HIS 355 World History to 1500 (3)

fall

Study of world history to 1500 with emphasis on the connection between regional history and the growth of world civilization. General studies: G, H.

HIS 356 World History since 1500 (3)

spring

Study of world history since 1500 with emphasis on the connection between regional history and the growth of world civilization. General studies: G, H.

HIS 363 Reformation (3)

fall

The Protestant and Catholic Reformations in the 16th century. Prerequisite: ENG 101 (or 105).

HIS 377 Women in Europe, 1700-Present (3)

selected semesters

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

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

fall

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

HIS 394 Special Topics in History (3)

fall, spring

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

HIS 406 Civil War and Reconstruction (3)

spring

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

HIS 411 Contemporary America (3)

fall

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

HIS 419 Topics in American Historical Periods (3)

spring

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

HIS 423 Mexico (3)

selected semesters

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

HIS 424 The Hispanic Southwest (3)

fall

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

HIS 429 Topics in American Regional History (3)

fall

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

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

selected semesters

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

HIS 431 Social History of American Women (3)

fall

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

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

fall, spring

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

HIS 443 Constitutional History of the United States (3)

spring

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

HIS 444 American Urban History (3)

spring

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

HIS 449 Topics in American Themes and Issues (3)

fall

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

HIS 450 Topics in Comparative History (3)

selected semesters

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

HIS 454 History of Genocide (3)

spring

Course examines the individuals and institutions responsible for the most infamous episodes of state-sanctioned violence in the 20th Century. General studies: G, H.

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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: H.

HIS 465 Origins of Racism (3)*spring*

A study of the history of racial discrimination with emphasis on the connection between race, ideology and the global economy. General studies: H.

HIS 467 Topics in European Historical Periods (3)*selected semesters*

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

HIS 469 Modern Germany (3)*spring*

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

HIS 475 Topics in European Regional/National History (3)*selected semesters*

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

HIS 482 Topics in European Gender, Ethnicity, and Class (3)*selected semesters*

Courses under this title emphasize the use of gender, ethnicity and/or class as categories of historical analysis. May be repeated for credit when topics vary.

HIS 487 Topics in European Themes and Issues (3)*fall*

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

HIS 498 History Pro-Seminar (3)*fall, spring*

Required course for majors on topic selected by instructor; introduction to historical research and writing; writing intensive course related to the development of research skills and writing tools used by historians. Prerequisite: ENG 101 (or 105); HIS 300 with a minimum grade of "C" (2.00). General studies: L.

Integrative Studies**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.

IAS 300 Adult Career Development (3)*fall, spring, summer*

Analysis of sociological and economic factors of 21st century work environments, integrated with a psychological understanding of adult development. Prerequisite: ENG 101 (or 105). General studies: L/SB.

IAS 305 Work and Identity (3)*spring*

This course explores the relationship between work and identity, as well as the search for meaning in work across generations. General studies: SB.

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. Prerequisite: ENG 101 (or 105). General studies: HU.

IAS 340 Bioethics (3)*selected semesters*

A philosophical exploration of ethical issues in health care delivery and the life sciences. Cross-listed as PHI 340. General studies: HU.

IAS 406 Moral Dilemmas (3)*fall, 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. Prerequisite: ENG 101 (or 105). General studies: L/HU.

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

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

IAS 408 Feminist Ethics (3)*selected semesters*

A philosophical exploration of the theoretical and practical aspects of ethical issues affecting women from diverse feminist viewpoints. Cross-listed as PHI 408. General studies: HU.

IAS 410 Evolution of Ideas (3)*once a year*

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.

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

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

IAS 415 Life in the Universe (3)*fall*

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

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.

IAS 420 Multicultural Autobiographies (3)

fall, spring

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

IAS 430 Science and Religion (3)

fall, spring

Examination of evolving relationships between scientific thought and Western and Eastern religious thought. Cosmologies, worldviews, and epistemologies explored. Prerequisite: ENG 101 (or 105). General studies: L/HU.

IAS 477 World Literature (3)

spring

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

IAS 484 Internship (1-12)

fall, spring, summer

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

IAS 499 Individual Research or Creative Project (1-3)

fall, spring

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

Interdisciplinary Arts and Performance

IAP 101 Art, Artist, and Culture (3)

fall, spring

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

IAP 300 Introduction to Interdisciplinary Arts (3)

fall

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

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

selected semesters

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

IAP 302 Cross-Cultural Perspectives on the Arts (3)

selected semesters

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

IAP 303 Artists and the Contemporary American Experience (3)

selected semesters

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

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

selected semesters

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

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

spring

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

IAP 306 Extended Traditions in Drawing (3)

fall in even years

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

IAP 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 IAS 310. Prerequisite: ENG 101 (or 105). General studies: HU.

IAP 321 Music Composition I (3)

fall in even years

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

IAP 322 Multitrack Digital Recording (3)

spring in odd years

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

IAP 323 Music and the Visual Arts (3)

spring in odd years

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

IAP 324 The Voice and Performance (3)

selected semesters

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

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

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

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

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

**IAP 332 Technical Production
for Interdisciplinary Arts (3)**

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

IAP 333 Directing for Performance (3)

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

IAP 334 Conceptual Development in the Arts (3)

fall
Course teaches conceptual development processes in the arts from initial idea to formal project proposals, grants, and production plans. Fee.

IAP 335 Vocalization and Movement (3)

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

IAP 347 Movement in Education (3)

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

IAP 351 Concept, Image, and Text (3)

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

IAP 352 Seeing and Drawing (3)

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

IAP 353 Contemporary Figure Drawing I (3)

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

IAP 354 Visual Representation (3)

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

IAP 355 Illusion and Vision (3)

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

IAP 356 Spatial Impressions (3)

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

IAP 361 Digital Editing and Media Literacy (3)

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

IAP 363 Sound, Image, and Media (3)

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.

IAP 364 Documentaries (3)

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. Recommended: IAP 361.

IAP 365 Digital Interactivity (3)

fall
Course combines graphics, video, and animation with the digital authoring tools for creations of interactive multimedia websites. Fee. Prerequisite: IAP 361.

IAP 368 Digital Graphic Technologies (3)

fall
Technology used in contemporary graphic design will be employed to design concepts and techniques for modeling and representation applications. Lecture; lab. Fee. Prerequisite: ACO 201 or instructor approval.

IAP 371 Verbal Art (3)

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

IAP 373 The Critical Artist (3)

selected semesters
This course will focus on artists' critical thought, theorizing, and representation of art across disciplines and genres.

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

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

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.

IAP 431 Perspectives on Performance and Acting (3)

spring

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

IAP 433 Directing Workshop (3)

fall

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

IAP 434 Production Laboratory (3)

spring

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

IAP 441 Movement for Performance (3)

spring

This course explores the relationship of movement as it relates to performance, both historically and cross-culturally.

IAP 442 Movement and Music (3)

spring

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

IAP 452 Elements of Painting (3)

selected semesters

Will develop painting skills and also develop personal artistic vision through projects that will be stimulated by other art forms. Studio: 6 hours per week.

Prerequisite: ART 323 or IAP 352 or ART 311 (available at Tempe campus) or instructor approval. Fee.

IAP 453 Contemporary Figurative Painting (3)

selected semesters

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

IAP 454 New Directions in Painting (3)

selected semesters

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

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 and studio. Fee. Prerequisite: instructor approval.

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.

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.

IAP 466 Digital Interactivity, Advanced (3)

spring

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

IAP 467 Acoustic Ecology (3)

spring in even years

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

IAP 468 Digital Graphic Applications (3)

spring

Targeting, planning, design, authoring, development, and presentation of professional digital media graphics for internet and print. Fee. Prerequisites: IAP 368.

IAP 471 Language, Culture, and Performance (3)

selected semesters

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

IAP 472 20th Century Theories of Arts and Performance (3)

spring in even years

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

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IAP 473 Aesthetic Research (3)*fall in odd years*

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

IAP 474 Art and Film (3)*once a year*

This course focuses on film as an art form in relation to the arts through aesthetics, cinematic theory, period study. Prerequisite: ENG 101 (or ENG 105). General studies: L/HU.

IAP 480 Senior Project (3-6)*fall, spring*

Capstone Course. Students develop an exit project for the IAP degree under the guidance of an advisor. Fee. Prerequisites: IAP major, senior standing, or advisor approval.

Life Sciences**LSC 264 The Biology of Humans (3)***selected semesters*

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

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

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

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

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

LSC 307 Comparative Plant Diversity (4)*selected semesters*

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 187 or equivalent.

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.

LSC 309 Flora of Arizona (4)*spring*

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

LSC 310 Natural History of Arizona (3)*fall, 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).

LSC 311 Field Natural History (1)*fall, spring*

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

LSC 320 Fundamentals of Ecology (3)*spring*

Organization, functioning, and development of ecological systems; energy flow; biogeochemical cycling; environmental relations; population dynamics. Prerequisite: BIO 187, 188; CHM 113, 115; or instructor approval.

LSC 322 Fundamentals of Ecology Laboratory (1)*spring*

Investigational field course on fundamental concepts in ecology. 3 hours lab. Fee. Prerequisites: BIO 187, 188; CHM 113, 115. Corequisite: LSC 320.

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

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

LSC 342 Hormones and Behavior (3)*selected semesters*

An examination of the short-term and long-term effects of hormones on the behavior of animals, including humans. Prerequisite: BIO 187, 188.

LSC 345 Organic Evolution (3)*fall, spring*

Processes of adaptive change and speciation in sexual populations. Prerequisite: BIO 187, 188.

LSC 347 Fundamentals of Genetics (3)*fall, spring*

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

LSC 348 Fundamentals of Genetics Laboratory (1)*fall, spring*

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

LSC 350 Premedical Professional Seminar (3)*fall, 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.

LSC 351 Developmental Anatomy (3)*selected semesters*

General developmental biology (embryology) and comparative structure of organ systems, illustrated mainly by vertebrate examples. Prerequisite: BIO 187, 188.

W LSC 353 Cell Biology (3)*fall, spring*

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

LSC 355 Cell Biology Laboratory (1)

fall, spring

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

LSC 358 Animal Physiology Lecture (3)

fall, spring

Physiological mechanisms of the higher vertebrates. Prerequisites: BIO 187, 188; CHM 113, 115; MAT 117.

LSC 359 Animal Physiology Laboratory (1)

fall, spring

Investigative laboratory experience using animals (including humans) and models. 3 hours lab. Fee. Prerequisites: BIO 187, 188; CHM 113, 115; MAT 117. Corequisite: LSC 358.

LSC 360 The Biology of Human Experience (3)

selected semesters

An introduction to the evolutionary origins and characteristics of humans as they are reflected in morphology, physiology, ecology, and behavior. Prerequisite: BIO 187, 188.

LSC 361 Human Sexual Biology (3)

selected semesters

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

LSC 362 The Human Environment (3)

selected semesters

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

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

selected semesters

Examines biological events and theories on race and gender and their interface with societal views. Prerequisite: BIO 187, 188.

LSC 365 The Human Organism (4)

fall

Human anatomy, physiology, and behavior are analyzed in an ecological and evolutionary context with the methods of comparative biology. 3 hours lecture; 3 hours lab. Fee. General studies: SG.

LSC 366 Principles of Biochemistry (3)

fall, 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: LSC 353; CHM 331, 332, 335, 336.

LSC 367 Elementary Biochemistry Laboratory (1)

fall, spring

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

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 187, 188.

LSC 380 Medical Parasitology (3)

selected semesters

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

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 187, 188.

LSC 386 General Entomology (4)

selected semesters

Form, activities, and classification of insects. 3 hours lecture, 3 hours lab. Fee. Prerequisite: BIO 188.

LSC 408 Population Biology (3)

spring

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

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. Prerequisites: ENG 101 (or 105); BIO 187, 188; and LSC 320, 322 recommended. General studies: L.

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 or equivalent. General studies: CS.

LSC 422 Introductory Immunology (3)

selected semesters

Fundamental concepts in research and medicine. Cellular immunity, antibody, antigen, immunogenetics, immunoregulation, hypersensitivity, clinical immunology, nervous-immune system interactions. Prerequisites: CHM 231 (or 331); LSC 353.

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LSC 425 Medical Epidemiology (3)*selected semesters*

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

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. Prerequisite: BIO 187, 188; CHM 113, 115; or equivalent.

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 medicine. Prerequisite: LSC 353 or LSC 358/359.

LSC 434 Marine Ecology (3)*selected semesters*

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

LSC 443 Molecular Genetics (3)*selected semesters*

Nature and function of the gene; emphasis on the molecular basis of inheritance and gene expression in prokaryotes and eukaryotes. Prerequisites: LSC 347; CHM 231, 235 or CHM 331, 335 or equivalent.

LSC 444 Fundamentals of Microbiology (3)*fall*

An overview of microorganisms; their anatomy, physiology, genetics, metabolic diversity, and ecological significance. Not open to students who have credit for MIC 205 (ASU's Tempe campus). Prerequisite: LSC 353.

LSC 445 Fundamentals of Microbiology Laboratory (1)*fall*

Principles and laboratory techniques used in culturing, identifying, and analyzing microorganisms. 3 hours lab. Not open to students who have credit for MIC 206 (ASU's Tempe campus). Fee. Corequisite: LSC 444.

LSC 447 Molecular Genetics Laboratory (1)*selected semesters*

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

LSC 450 Premedical Externship (3)*fall, spring*

This course provides hands-on experience in a hospital setting for premedical students. Prerequisite: BIO 187, 188. Pre or corequisite: LSC 350 and instructor approval.

LSC 453 Animal Histology (4)*selected semesters*

Microscopic study of animal tissues. 3 hours lecture, 3 hours lab. Fee. Prerequisites: BIO 187, 188; LSC 353.

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.

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.

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.

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.

LSC 484 Internship (1-6)*fall, spring, summer*

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

LSC 489 Capstone Course in Integrated Natural Sciences (1)*selected semesters*

A course that integrates the core curriculum, and which makes connections between the science and careers/graduate school. Prerequisite: at least 28 semester hours in the major.

LSC 499 Individualized Instruction (1-3)*fall, spring, summer*

Master of Arts in Interdisciplinary Studies

MAS 500 Perspectives in Interdisciplinary Studies (3)*fall*

Introduction to interdisciplinarity through explorations of epistemological and rhetorical practices that bridge traditional disciplines.

MAS 501 Models of Inquiry for Contemporary Issues (3)*fall, spring, summer*

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

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

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

MAS 510 Science and Religion: Cosmologies and Worldviews (3)

once a year

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

MAS 511 Technology, Environment and Humanity (3)

once a year

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

MAS 512 History and Philosophy of the Social Sciences (3)

once a year

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

MAS 513 Sociology of Everyday Life (3)

once a year

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

MAS 553 Latin American Cities (3)

once a year

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

MAS 585 Capstone Course (3)

fall, spring, summer

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

Mathematics

MAT 106 Intermediate Algebra (3)

fall, spring

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

MAT 117 College Algebra (3)

fall, 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.

MAT 119 Finite Mathematics (3)

fall, spring

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

MAT 142 College Mathematics (3)

fall, spring

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

MAT 170 Precalculus (3)

fall, 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.

MAT 210 Brief Calculus (3)

fall, spring

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

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.

MAT 270 Calculus with Analytic Geometry I (4)

selected semesters

Real numbers, limits and continuity, and differential and integral calculus of functions of 1 variable. Not open to students with credit in MAT 290 (available at Tempe campus). Prerequisite with a grade of "C" (2.00) or higher: MAT 170 or satisfactory score on placement examination. General studies: MA.

MAT 271 Calculus with Analytic Geometry II (4)

selected semesters

Methods of integration, applications of calculus, elements of analytic geometry, improper integrals, sequences, and series. Not open to students with credit in MAT 291 (available at Tempe campus). Prerequisite with a grade of "C" (2.00) or higher: MAT 270 or equivalent. General studies: MA.

MAT 272 Calculus with Analytic Geometry III (4)

selected semesters

Vector-valued functions of several variables, multiple integration, and introduction to vector analysis. Prerequisite with a grade of "C" (2.00) or higher: MAT 271 or equivalent. General studies: MA.

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MAT 300 Mathematical Structures (3)*fall*

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

MAT 310 Introduction to Geometry (3)*spring*

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

MAT 342 Linear Algebra (3)*once a year*

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

MAT 371 Advanced Calculus I (3)*fall*

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

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

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

MAT 443 Abstract Algebra (3)*spring*

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

MAT 445 Theory of Numbers (3)*spring*

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

Music

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

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

MUS 349 Music in America (3)*selected semesters*

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

MUS 354 Popular Music (3)*selected semesters*

Emphasis on historical, cultural, and performance patterns in a variety of popular idioms such as, but not limited to, rock, folk, jazz, and Afro-American music. General studies: HU.

MUS 355 Survey of American Music (3)*selected semesters*

Growth and development of American music.

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

Music's place in the theatre, viewed in terms of historical importance and relative function. General studies: HU.

Philosophy

PHI 101 Introduction to Philosophy (3)*fall, spring*

Exploration of issues that philosophers have traditionally considered, including morality, reality, and knowledge. General studies: HU.

PHI 103 Principles of Sound Reasoning (3)*selected semesters*

Fallacies, validity, and soundness of arguments. May include syllogistic, elementary symbolic, inductive logic, and scientific method. Prerequisite: ENG 101 (or 105). General studies: L/HU

PHI 105 Introduction to Ethics (3)*selected semesters*

Philosophical examination of such questions as, How should we live? Is morality a social invention? Does anything matter? General studies: HU.

PHI 306 Applied Ethics (3)*fall, spring*

Philosophical techniques are used to elucidate such vital moral issues as sexual perversion, civil disobedience, abortion, punishment, violence and pacifism, suicide, and euthanasia. General studies: HU.

PHI 340 Bioethics (3)*selected semesters*

A philosophical exploration of ethical issues in health care delivery and the life sciences. Cross-listed as IAS 340. General studies: HU.

PHI 360 Business and Professional Ethics (3)*fall, spring, summer*

Examines moral theories applied to cases of corporate responsibility, property rights, environment, fairness, profit, employee rights, and responsibilities. General studies: HU.

PHI 406 Moral Dilemmas (3)*fall, 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. Prerequisite: ENG 101 (or 105). General studies: L/HU.

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

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

PHI 408 Feminist Ethics (3)

selected semesters

A philosophical exploration of the theoretical and practical aspects of ethical issues affecting women from diverse feminist viewpoints. Cross-listed as IAS 408. General studies: HU.

Physical Science

PHS 110 Fundamentals of Physical Science (4)

selected semesters

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

Physics

PHY 101 Introduction to Physics (4)

selected semesters

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

PHY 111 General Physics (3)

fall

Noncalculus treatment of the principles of physics for nonphysics majors. Students whose curricula require a laboratory course must also register for PHY 113. Prerequisite: trigonometry. General studies: SQ (if credit also earned in PHY 113).

PHY 112 General Physics (3)

spring

Continuation of PHY 111. Students whose curricula require a laboratory course must also register for PHY 114. Prerequisite: PHY 111. General studies: SQ (if credit also earned in PHY 114).

PHY 113 General Physics Laboratory (1)

fall

Elementary experiments in physics. 2 hours lab, 1 hour recitation. Outside preparation for experiments and report writing are required. Fee. May be taken concurrently with, or subsequent to, PHY 111. General studies: SQ (if credit also earned in PHY 111).

PHY 114 General Physics Laboratory (1)

spring

See PHY 113. Fee. May be taken concurrently with, or subsequent to, PHY 112. General studies: SQ (if credit also earned in PHY 112).

Political Science

POL 101 Political Ideologies (3)

fall, spring

Leading political ideas and belief systems, e.g., Marxism, liberalism, conservatism, theories of democracy, and alternative futures. Not open to students with credit for POL 340. General studies: SB.

POL 110 Government and Politics (3)

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. Not open to students with credit for POL 310. General studies: SB.

POL 150 Comparative Government (3)

selected semesters

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

POL 160 Global Politics (3)

fall

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

POL 310 American National Government: Ideas and Institutions (3)

fall, summer

Historical, analytic context of constitutionalism and citizenship vis-a-vis social, economic, and political institutions. Meets the federal government requirement for teacher certification. Not open to students with credit for POL 110. General studies: SB, H.

POL 313 The Congress (3)

spring

The modern American Congress: Its role, power and interrelationship in the American political system. General studies: SB.

POL 314 The American Presidency (3)

fall

Office, role, and power of the American presidency in the American political system. General studies: SB.

POL 320 Latino Politics (3)

fall

Examination of contemporary political issues in the diverse Latino community. General studies: SB, C.

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/ or

POL 331 Public Opinion (3)*selected semesters*

Examination of U.S. public opinion, the diversity of its cultural sources, and political influence. General studies: SB.

POL 336 Electoral Behavior (3)*selected semesters*

Voting behavior and the attitudes, perceptions, and activities of the citizenry in the political process. General studies: SB

POL 340 Political Theory (3)*fall, summer*

Survey of ancient, modern, and contemporary political theorists and ideas in European and American contexts. Not open to students with credit for POL 101. Prerequisite: ENG 101 (or 105). General studies: HU/SB.

POL 350 Comparative Politics (3)*spring, summer*

Theoretical approaches and political institutions, such as parties, pressure groups, legislatures, and executives, from a cross-national perspective. General studies: SB, G.

POL 360 World Politics Theory (3)*spring*

Theoretical examination of one or more aspects of international politics, e.g., foreign policy, negotiations, alliances, crises, wars, and international systems. Not open to students with credit for POL 160. General studies: SB, G.

POL 361 American Foreign Policy (3)*fall*

United States in world affairs; foreign policy since World War I. Techniques in formulating American foreign policies. General studies: SB.

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.

POL 430 Race and Politics in the Americas (3)*selected semesters*

The study of racial politics in North, Central, and South America with a focus on the United States. General studies: SB, C.

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

The study of mass media and politics in the United States, e.g., media and elections, media and government. General studies: SB.

POL 435 Women, Power, and Politics (3)*spring*

The roles and treatment of women within various political contexts. Specific focus may vary with instructor. General studies: SB, C.

POL 436 Gender, Sexuality, Nation-States (3)*selected semesters*

Issues and problems related to the interface of gender, sexualities, nationalism and states in various world contexts. General studies: SB, G.

POL 440 Political Futures through Science Fiction (3)*selected semesters*

Examination of the relationship between politics and science fiction literature and film. Prerequisite: ENG 101 (or 105). General studies: L/HU.

POL 446 Democracy (3)*spring*

Issues and problems in democratic theory, e.g., the nature of democracy, majority rule, representation, equality, and the value of political participation. General studies: HU.

POL 453 Latin American Cities (3)*spring*

Urban studies of Latin American world cities, e.g., Mexico City, Santiago, emphasizing integration with U.S. cities, including Los Angeles, Phoenix. General studies: SB, G.

POL 454 Mexico: Politics, Economy, Cultures (3)*fall, spring*

Politics, economy, and cultures in Mexico in historical and contemporary perspective. General studies: SB, G.

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.

POL 470 Law and the Political Order (3)*spring, summer*

Investigation of concepts of justice, political rights, adjudication and legislation, legal ordering, constitutional law, law as an instrument of change. General studies: SB.

POL 484 Internship (1-6)*fall, spring, summer*

Structured practical experience supervised in the field by practitioners and overseen by the departmental internship coordinator. Prerequisite: prior approval of internship coordinator and department chair.

POL 486 Global Political Economy (3)*fall*

Contending approaches to historical and contemporary issues of international political economy, including global welfare, equality, ecology, and peace. General studies: SB, G.

Psychology (Social & Behavioral)

PGS 101 Introduction to Psychology (3)

fall, spring, summer

Major areas of theory and research in psychology. Participation in department-sponsored research or an educationally equivalent alternative activity is required. General studies: SB.

PGS 304 Effective Thinking (3)

spring, summer

Understanding and improving your intellectual and behavioral skills; information analysis, inference, logic, problem solving, and decision making. Prerequisites: ENG 101 (or 105); MAT 119 or PSY 230 or equivalent. General studies: L.

PGS 306 Environmental Psychology (3)

fall, summer

Concepts and research strategies in the study of behavior in interaction with physical environment. Prerequisite: PGS 101. General studies: SB.

PGS 315 Personality Theory and Research (3)

fall, summer

Definition and description of personality in terms of theoretical and methodological approaches. Prerequisites: PGS 101; PSY 290. General studies: SB.

PGS 341 Developmental Psychology (3)

fall

Behavior development analyzed in terms of psychological principles. Current research in human development. Prerequisites: PGS 101; PSY 290. General studies: SB.

PGS 344 Directed Child Study (3)

spring

Theories and methods of intervention with pre-school children and supervised practicum in the Child Study Laboratory. 1 hour lecture, 6-8 hours practicum. Prerequisites: ENG 101 (or 105); PGS 101. General studies: L/SB.

PGS 350 Social Psychology (3)

fall, spring, summer

Human social behavior, including such concepts as aggression, attraction, attribution, conformity, groups, helping, person perception, and persuasion. Prerequisite: PGS 101. General studies: SB.

PGS 370 Interpersonal Relationships (3)

fall, spring

Development of personal skills for competent functioning in interpersonal relationships across multiple social contexts. Principles of mental health adjustment. Prerequisite: PGS 101 or equivalent. General studies: SB.

PGS 385 Psychology of Gender (3)

spring

The course examines, from a psychological perspective, the similarities and differences in beliefs, attitudes, and behaviors of women and men. Cross-listed as WST 385. General studies: SB.

PGS 399 Supervised Research (1-3)

fall, spring, summer

Experience within the context of current faculty research projects. Student is assigned responsibility depending on qualifications. "Y" grade only. May be repeated for a total of 6 hours. Prerequisites: approval of faculty member prior to registration; "B" (3.00) GPA in major. Pre or corequisite: PSY 230 or equivalent.

PGS 414 History of Psychology (3)

selected semesters

Historical development of psychology from its philosophical beginnings to the present. Prerequisites: PGS 101; PSY 230, 290. General studies: L/SB.

PGS 427 Psychology of Aging (3)

fall

Behavioral, experiential, and emotional phenomena associated with aging. Analysis of retained abilities and resources as well as losses and stresses. Prerequisites: PGS 101, 341. General studies: SB.

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.

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.

PGS 443 Abnormal Child Psychology (3)

spring

The major disorders of childhood and adolescence (e.g., autism, hyperactivity, phobias, and delinquency) are covered, including cause, diagnosis, treatment, and prevention. Prerequisites: ENG 101 (or 105); PGS 101 and one course from among PGS 315, 341, 350 or instructor approval. General studies: L/SB.

PGS 444 Adolescent Psychology and Psychopathology (3)

fall

An advanced level survey of normal adolescent psychological development and psychological disorders of this age period. Lecture, discussion. Prerequisites: PGS 101, 341; PSY 290.

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PGS 446 Social Development (3)*selected semesters*

Theory, research, and issues regarding social development are discussed. Example topics: formation of attachments, prosocial development, and gender-role development. Lecture, seminar. Prerequisite: PGS 341. General studies: L/SB.

PGS 453 Organizational Behavior (3)*spring*

A survey of psychological theory and research as applied to the behavior of individuals in organizational settings. Lecture, discussion. Prerequisites: PGS 101, 350 or instructor approval. General studies: SB.

PGS 458 Group Dynamics (3)*selected semesters*

Theories and methods of group leadership, group effectiveness, communication within groups, and relations between groups and individual members. Prerequisite: PGS 350. General studies: SB.

PGS 462 Health Psychology (3)*selected semesters*

Contributions of psychology to health promotion and illness prevention, adaptation to acute and chronic illness, and to the health care system. Prerequisites: PSY 230, 290.

PGS 465 Psychology of Stress and Coping (3)*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.

PGS 466 Abnormal Psychology (3)*fall, 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.

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.

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.

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.

PGS 480 Cross-Cultural Social Psychology (3)*spring*

Focuses on patterns of social behavior in individualistic and collectivistic cultures. Includes multi-disciplinary research using qualitative and quantitative methodologies. Prerequisite: PGS 101 and 350. General studies: SB, G.

PGS 481 Psychology of Social Issues (3)*fall*

Focuses on how theory and research from psychology and other social sciences contribute to an understanding of contemporary social issues. Prerequisites: ENG 101 (or 105); PGS 101. General studies: L/SB.

PGS 482 Social Influence and Consumer Behavior (3)*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.

PGS 494 Special Topics (3)*fall, spring, summer*

Topics may include theoretical and applied areas of psychology (e.g., infant development).

Psychology (Science & Mathematics)

PSY 230 Introduction to Statistics (3)*fall, spring, summer*

Basic concepts in descriptive and inferential statistics, emphasizing applications to psychology. Prerequisites: MAT 117; PGS 101. General studies: CS.

PSY 290 Research Methods (4)*fall, 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.

PSY 323 Sensation and Perception (3)*fall, spring, summer*

Underlying processes of vision, audition, and the other senses. Application of current research and theory in a laboratory environment. Prerequisite: PSY 290 or instructor approval.

PSY 324 Memory and Cognition (3)*fall, 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.

PSY 325 Physiological Psychology (3)*fall*

Relationships of physiological processes to behavior. Emphasis is on nervous system functioning. Prerequisites: PSY 290 or two courses in biological science; instructor approval.

PSY 330 Statistical Methods (3)*spring*

Advanced application of statistics to psychology. Highly recommended for students interested in attending graduate school. 3 hours lecture, 1 hour lab. Prerequisite: PSY 230. General studies: CS.

PSY 425 Biological Bases of Behavior (3)

spring

Critical study of physiological psychology; brain mechanisms underlying motivation, learning, etc. ENG 101 (or 105); PSY 325. General studies: L.

PSY 433 Human Psychophysiology (3)

selected semesters

Emphasis on human physiological-behavioral relationships. Topics include physiological change associated with imagery, stress, attention, skill learning, lying, and biofeedback. Prerequisite: PSY 325.

Religious Studies

REL 100 Religions of the World (3)

fall

An introduction to the history of religious traditions of the world, including Buddhism, Christianity, Hinduism, Islam, Judaism, and others. Not open to students who have completed REL 200 (available at Tempe campus). General studies: HU, G.

REL 201 Religion and the Modern World (3)

selected semesters

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

REL 305 Ritual, Symbol, and Myth (3)

fall, spring

Ritual, symbol, and myth as types of religious expression, with examples selected from the non-literate religions of the world. Prerequisite: ENG 101 (or 105).

REL 320 Religion in America (3)

fall

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

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.

REL 390 Women and Religion (3)

selected semesters

The role of women in several organized religions and/or religious sects, including a study of myth and symbols as they are used to establish, maintain, and enforce sex-roles within specific religions. Prerequisite: ENG 101 (or 105). General studies: L/SB, G.

REL 420 Religion in American Life and Thought (3)

fall

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

Social and Behavioral Sciences

SBS 300 Interdisciplinary Approaches to Social and Behavioral Sciences (3)

fall, spring

The interdisciplinary approach to the study of social life. General studies: SB.

SBS 301 Cultural Diversity (3)

fall, spring

Socially structured differences in historical and cross-cultural perspective. Prerequisite: ENG 101 (or 105). General studies: L/SB, C.

SBS 302 Qualitative Methods (3)

spring

Basic methodological issues in the systematic application of qualitative analysis of human social life. Surveys range of qualitative methods used by social and behavioral scientists.

SBS 303 Quantitative Methods (3)

fall

Concepts underlying design and implementation of quantitative research methods.

SBS 304 Social Statistics I (3)

fall, spring

Statistical techniques of the social and behavioral sciences. General studies: CS.

SBS 404 Social Statistics II: Multivariate Analysis (3)

selected semesters

Analysis of variance, multiple regression, dummy variable regression, path analysis, and related topics. Computer application to problem solving. Prerequisites: SBS 303 and 304 or instructor approval. General studies: CS.

SBS 410 Topics in Identity/Difference (3)

fall, spring

Topics which focus on race/ethnic, gender, sexual or cultural identity/difference. May be repeated for credit when topics vary.

SBS 430 Topics in Power/Knowledge (3)

fall, spring

Discussion of selected topics concerning the effects of political and social institutions on perceptions of politics and political culture. May be repeated for credit when topics vary. General studies: SB.

Key to General Studies

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H Historical awareness courses

, and
/ or

SBS 440 Family Studies (3)*fall, 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.

SBS 450 Topics in Local/Global (3)*fall, spring*

Examines links between social, political, economic changes at local, national, global levels. May be repeated for credit when topics vary. General studies: SB, G.

SBS 460 Urban Studies (3)*fall, spring*

Study of local/global urban issues like social geography, political economy, culture and social space, urban social diversity. May be repeated for credit when topics vary. General studies: SB.

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

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

SBS 484 Internship (1-6)*fall, spring, summer*

Structured practical experience supervised in the field by practitioners and overseen by the departmental internship coordinator. Prerequisite: prior approval of internship coordinator and department chair.

SBS 490 Senior Thesis I (3)*fall, spring, summer*

Supervised, independent, interdisciplinary research and writing on an intellectual issue or social problem chosen by the student. First part of a six-credit sequence, followed by SBS 491. Prerequisite: approval of departmental advisor and department chair.

SBS 491 Senior Thesis II (3)*fall, spring, summer*

Supervised, independent, interdisciplinary research and writing on an intellectual issue or social problem chosen by the student. Second part of a six-credit sequence. Prerequisite: SBS 490; approval of departmental advisor and department chair.

Sociology

SOC 101 Introductory Sociology (3)*fall, spring, summer*

Fundamentals of sociology, organization of human groups and society, processes of interaction, and social change. Not open to students who have credit for SOC 301. 2 hours lecture, 1 hour discussion. General studies: SB.

SOC 301 Principles of Sociology (3)*spring*

Intensive and critical analysis of the concepts of sociology. Not open to students who have credit for SOC 101. General studies: SB.

SOC 315 Courtship and Marriage (3)*fall, spring*

An overview of courtship, marriage, and related processes, focusing on problematical aspects of these institutions from the sociological perspective. Prerequisite: SOC 101 (or 301) or instructor approval. General studies: SB.

SOC 324 Work and the Workplace (3)*selected semesters*

Historical and comparative examination of changes in the structure and meaning of work and current shifts in people's work lives. General studies: SB, H.

SOC 328 Migration (3)*spring*

Introduction to the definition and analysis of migration in all forms. General studies: SB, G.

SOC 332 The Modern City (3)*spring*

Growth, characteristics, and problems of the modern city. Prerequisite: SOC 101 (or 301).

SOC 340 Sociology of Deviant Behavior (3)*spring*

A sociological analysis of stigmatized behaviors and conditions, including the causes, effects, and management of stigma. Prerequisite: SOC 101 (or 301) or instructor approval. General studies: SB.

SOC 341 Modern Social Problems (3)*fall, summer*

Race relations, poverty, unemployment, and other current issues. Prerequisite: ENG 101 (or 105). General studies: L/SB.

SOC 352 Social Change (3)*fall, spring*

Patterns of social change, resistance to change, and change-producing agencies and processes. Prerequisite: SOC 101 (or 301). General studies: SB, G, H.

SOC 353 Death and Dying in Cross-Cultural Perspectives (3)*fall, spring*

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

SOC 354 Popular Music and Society (3)*summer*

This class places contemporary music in its social, economic and political context; usually offered with MUS 354. General studies: HU.

SOC 360 Sociological Psychology (3)*selected semesters*

Interaction patterns between the sociocultural order and individuals; socialization process; norms, roles, and statuses; collective behavior. Prerequisite: SOC 101 (or 301). General studies: SB.

SOC 364 Popular Culture (3)*fall, spring*

Study of the social approaches to popular culture, focusing on the function of various forms (literature, film, theatre, and music). General studies: SB.

SOC 365 Sociology of Mass Communication (3)

selected semesters

A sociological exploration of the major mass media as a communicative process in American society. General studies: SB.

SOC 366 Film and Society (3)

fall, spring

Study of the social approaches to film as an art form, mass medium, and ideological construct. General studies: SB.

SOC 370 Racial and Ethnic Minorities (3)

spring

Problems of minorities in the United States and in other racially and ethnically heterogeneous societies. Evaluation of theories of prejudice and of research dealing with discrimination, desegregation, and assimilation. Prerequisites: SOC 101 (or 301). General studies: SB, C.

SOC 394 Special Topics (3)

fall, spring, summer

Topics may include film and society, women, work and the border economy, sports and society, women and religion.

SOC 400 Perspectives on Aging (3)

fall, spring

A broad overview of gerontological issues – physical, aging, retirement, living options, caregiving, theoretical background, death, etc. Cross-listed as SOC 400. General studies: SB.

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.

SOC 426 Social Inequality (3)

fall

Examines stability and change in social inequality based on age, class, ethnicity, gender, and race. General studies: SB.

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.

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.

SOC 484 Internship (1-6)

fall, spring, summer

Structured practical experience supervised in the field by practitioners and overseen by the departmental internship coordinator. Prerequisite: prior approval of internship coordinator and department chair.

SOC 486 Contemporary Theory (3)

fall, 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.

Spanish

SPA 101 Elementary Spanish (4)

fall, spring

Fundamentals of the language. Emphasis on listening, speaking, reading, and writing. Not open to students with credit in SPA 111 (available at Tempe campus). 4 hours lecture, 1 hour lab.

SPA 102 Elementary Spanish (4)

fall, spring

See SPA 101. Not open to students with credit in SPA 111 (available at Tempe campus). Prerequisite: SPA 101 or equivalent.

SPA 107 Spanish for International Professions I (8)

selected semesters

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

SPA 201 Intermediate Spanish (4)

fall, spring

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

SPA 202 Intermediate Spanish (4)

fall, spring

See SPA 201. Prerequisite: SPA 201 or equivalent.

SPA 207 Spanish for International Professions II (8)

selected semesters

Continuation of SPA 107, alternative to SPA 201 and 202 sequence. Expansion of communicative proficiency in specific areas of international professions. Prerequisite: SPA 107 or instructor approval.

SPA 311 Spanish Conversation (3)

fall

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

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, and / or

SPA 312 Spanish Conversation (3)*spring*

See SPA 311. Prerequisite: SPA 202 or equivalent.

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 equivalent. General studies: G.

SPA 314 Spanish Conversation and Composition (3)*spring*

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

SPA 325 Introduction to Hispanic Literature (3)*selected semesters*

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

SPA 412 Advanced Conversation and Composition (3)*selected semesters*

Oral and written Spanish communication skills, with particular attention given to developing fluency and facility. Required of majors. Prerequisite: SPA 314 or instructor approval. General studies: G.

SPA 413 Advanced Spanish Grammar (3)*selected semesters*

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

SPA 425 Spanish Literature (3)*selected semesters*

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

SPA 426 Spanish Literature (3)*selected semesters*

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

SPA 427 Spanish-American Literature (3)*selected semesters*

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

SPA 428 Spanish-American Literature (3)*selected semesters*

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

SPA 464 Mexican American Literature (3)*selected semesters*

Representative literature in Spanish and English by Mexican Americans, emphasizing sociocultural as well as literary values. Prerequisite: SPA 325. General studies: HU, C.

SPA 472 Spanish-American Civilization (3)*selected semesters*

Growth of the institutions and cultures of Spanish-American people. Prerequisite: SPA 314 or instructor approval. General studies: HU.

Statistics and Probability

STP 220 Conceptual Statistics (3)*fall, spring*

Treats the 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 or equivalent. General studies: CS.

STP 226 Elements of Statistics (3)*fall, spring*

Basic concepts and methods of statistics, including descriptive statistics, significance tests, estimation, sampling, and correlation. Prerequisites: MAT 117 or 142 or equivalent. General studies: CS.

STP 300 Introduction to Probability (3)*spring*

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

STP 420 Introductory Applied Statistics (3)*once a year*

Introductory probability, descriptive statistics, sampling distributions, parameter estimation, tests of hypotheses, chi-square tests, regression analysis, analysis of variance, and nonparametric tests. Prerequisite: MAT 117 or equivalent. General studies: CS.

Theatre

THE 100 Introduction to Theatre (3)*fall, spring*

Survey of theatre production from the Greeks to contemporary theatre. General studies: HU.

THE 300 Film: The Creative Process (3)*selected semesters*

Elements of the theatrical film: cinematography, sound, editing, directing, acting, scriptwriting, producing, and criticism. 3 hours lecture, 2 hours lab. General studies: HU.

THE 320 History of the Theatre (3)*fall*

Traces major developments in theatre production from its beginning to the 17th century. General studies: HU, H.

THE 321 History of the Theatre (3)*spring*

Traces major developments in theatre production from the 17th century to modern times. General studies: HU, H.

THE 400 Focus on Film (3)*selected semesters*

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

THE 494 Special Topics (3)*selected semesters*

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

Theatre Performance and Production

THP 294 Special Topics (1-4)

selected semesters

Topics such as musical theatre (history/survey).

THP 394 Special Topics (3)

selected semesters

Topics may be selected from the following:

- a) Acting for Non-Majors
- b) Acting for the Camera
- c) Theatre Studio/Workshop I
- d) Television Production

THP 494 Special Topics (3)

selected semesters

Topics may be selected from the following:

- a) Acting for Non-Majors
- b) Acting for the Camera
- c) Storytelling and Poetry
- d) Theatre Studio/Workshop II

Writing Across the Curriculum

WAC 101 Introduction to Academic Writing (3)

fall, spring

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

Women's Studies

WST 100 Women and Society (3)

spring

Interdisciplinary introduction examining critical issues in women's studies. Not open to students who have credit for WST 300. General studies: SB, C.

WST 300 Women in Contemporary Society (3)

fall, spring

Interdisciplinary examination of such topics as gender roles, work, education, sexuality, politics, health, and law. Not open to students who have credit for WST 100. Prerequisite: ENG 101 (or 105). General studies: SB, C.

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.

WST 350 Race, Class, and Gender (3)

fall, 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.

WST 370 Chronicling Women's Lives (3)

once a year

Explores the lives of a selected group of American women as a point of departure for the chronicling of contemporary women's lives. General studies: HU, C.

WST 376 Feminist Theory (3)

once a year

Exploration of feminist theories and the intersection of gender, race, ethnicity, and class through critical analyses. Prerequisite: ENG 101 (or 105). General studies: L, C.

WST 385 Psychology of Gender (3)

spring

The course examines, from a psychological perspective, the similarities and differences in beliefs, attitudes, and behaviors of women and men. Cross-listed as PGS 385. General studies: SB.

WST 390 Women and World Religions (3)

once a year

A comparative examination of vital issues about women and religions in different places of the world and different historical periods. Prerequisite: ENG 101 (or 105). General studies: L/SB, G.

WST 394 Special Topics (3)

fall, spring

Selected topics in women's studies, such as:

- a) Cultural Diversity
- b) Gender and Sexuality

WST 431 Women and Film (3)

once a year

Comparative international course explores ways feminist directors have broken the Hollywood mold in films focusing on women. Prerequisite: ENG 101 (or 105). General studies: L, G.

WST 457 Women, Cultures, and Societies (3)

fall

Examines issues such as poverty, dependency, interdependency, race, class, and gender in different societies of the world. General studies: SB, G.

WST 467 Ethnic Women Writers (3)

fall

Concentrates on selected women writers of the United States who are Native American, African American, Latina, and Asian-American. Cross-listed as ENG 460. Prerequisite: ENG 101 (or 105). General studies: L/HU, C.

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, and / or

WST 473 Latina/Chicana Representation (3)*fall*

Examines from an interdisciplinary perspective contemporary issues experienced by Chicana/Latina women in the U.S. Cross-listed as AMS 429. General studies: SB, C.

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

Course examines the socioeconomic condition, political formation and identities of contemporary indigenous, ethnic minority, immigrant and migrant women globally. General studies: HU, G.

WST 483 Contemporary Women Writers (3)*once a year*

A comparative approach to contemporary writings by women from around the world. General studies: HU, G.

WST 487 Gender and International Development (3)*fall, spring, summer*

Addresses conceptual, methodological and theoretical issues concerning gender, development and internationalism; evaluates theories and models for change. General studies: SB, G.

WST 494 Special Topics (3)*fall, spring*

Selected topics in women's studies, such as:

- a) Aging: Women/Minority Issues
- b) Social History of American Women
- c) Women, Power and Politics

WST 498 Pro-Seminar: Theory and Method in Women's Studies (3)*spring*

Reading and research on important theoretical and methodological issues in women's studies. Prerequisite: ENG 101 (or 105). General studies: L.

Omnibus courses: See [page 55](#) for omnibus courses that may be offered.