## **Arizona State University**

## Academic Catalog Archive 2008-2009

This document provides an archival record of the academic programs offered during the 2008-09 academic year. It is a printable option of the online catalog for accreditation organizations, agencies and university offices for data collection, evaluation purposes and referencing. Academic advisors, faculty and students should refer to the online version of the academic catalog.

To navigate this document version of the 2008-09 Academic Catalog, refer to the Table of Contents and the bookmarks provided. Most undergraduate degrees have a corresponding major map that includes the critical requirements, order of courses and grade requirements for that degree. The major maps are provided in the final sections of this document. For inquiries or questions please contact academic.catalog@asu.edu.



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Astronomy Minor LAASTMIN  Biochemistry Minor LABCHMIN  Biological Sciences Minor LABIOMIN  Business Minor BABUSMIN  Chemistry Minor LACHMMIN  Communication Minor LNACOMMI  Communication Studies Minor HSCMNMIN  Computational Mathematical Sciences Minor LACMSMIN  Dance Minor FADANMIN  Design Studies Minor ARDSNMIN  Economics for Students Planning a Career in Law Minor LAECNLMIN	
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English Minor with a Concentration in Literature LAENGMINT	
Ethnic Studies Minor ASETHMIN	
Family and Human Development Minor LAFASMIN	
Film and Media Production Minor FAFMPMIN	
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Geography Minor LAGCUMIN	
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Arabic Studies Certificate LAARBCERT	
Asian Pacific American Studies Certificate LAAPACERT	
Asian Studies Certificate LAASNCERT	
Automotive Entrepreneurs and Leaders Certificate BADMGCERT	
Child Nutrition Certificate ECNTRCERC	
Civic Education Certificate LACVECERT	
Classical Studies Certificate LACLGCERT	
Computer Gaming Certificate ESSCIGERT	
Convention Sales and Meeting Planning Certificate PPTDMCERT	
Creative City Certificate PPURBCERC	
Dietetics Certificate ECNTRCERD	
East Asian Studies Certificate LAEASC	
Entertainment and Technology LAFMSUERE	
Ethics Certificate LAETHCERT	
Ethnic Studies Certificate ASETHCERT	
Film and Video Studies Certificate ASVIDCERT	
Fire Service Management Certificate TSIMCFCERT	
Geographic Information Science Certificate LAGISCERT	
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History and Culture ECHTYCERT	510
History and Philosophy of Science Certificate LAHPSCERT	510
Honors Business Modeling and Analysis BAECNCERT	
Informatics ESCIPCERT	512
International Business Certificate BAIBSCERT	512
International Studies Certificate LAINSCERT	513
Islamic Studies Certificate LAISLCERT	514
Jewish Studies Certificate LAJUDCERT	514
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Nonprofit Leadership and Management: American Humanities Certificate PPNPYCERT	517
Philosophy, Politics, and Law Certificate HOPPLCERT	
Public Administration and Public Management Certificate PPPAFCERT	519
Religion and Conflict Certificate LARELCERT	
Russian and East European Studies Certificate LAREECERT	
Small Business and Entrepreneurship Certificate BASMBCERT	522
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Spa Management Certificate ECEXWCERT	523
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Applied Biological Sciences (Applied Biological Sciences) (BS) TSABSABS	530
Applied Biological Sciences (Secondary Education in Biology) (BS) TSABSSBS	
Applied Biological Sciences (Urban Horticulture) (BS) TSABSUBS	
Applied Biological Sciences (Wildlife and Restoration Ecology) (BS) TSABSRBS	
Applied Psychology (BS) ECPSYBS	
Exercise and Wellness (Exercise and Wellness) (BS) ECEXWBS	
Exercise and Wellness (Health Promotion) (BS) ECEXWHBS	
History and Culture (BA) ECHSTCULBA	
Literature, Writing and Film (BA) ECLWFBA	
Multimedia Writing and Technical Communication (BS) ECTWCBS	
Nutrition (Dietetics) (BS) ECNTRDBS	
Nutrition (Food and Nutrition Management) (BS) ECNTRMBS	
Nutrition (Human Nutrition) (BS) ECNTRHBS	
Nutrition (Nutrition Communication) (BS) ECNTRCBS	
Science, Technology and Society (BS) ECSTSBS	
Arts, Katherine K. Herberger College of the	
Art (Art Education) (BFA) FAARTEBFA	
Art (Art History) (BA) FAARTHBA	
Art (Art Studies) (BA) FAARTSTDBA	
Art (Ceramics) (BFA) FAARTCBFA	
Art (Drawing) (BFA) FAARTDBFA	
Art (Fibers) (BFA) FAARTFBFA	
Art (Intermedia) (BFA) FAARTIBFA	
Art (Metals) (BFA) FAARTMBFA	
Art (Museum Studies) (BA) FAARTMSBA	
Art (Painting) (BFA) FAARTPABFA	
Art (Photography) (BFA) FAARTPHBFA	
Art (Printmaking) (BFA) FAARTPMBFA	
Art (Sculpture) (BFA) FAARTSBFA	
Dance (BFA) FADANBFA	
Dance (Dance Education) (BFA) FADANEBFA	
Film (Film and Media Production) (BA) FAFLMBA	
Music (BA) FAMUSBA	
Music Education (Choral-General) (BMUS) FAMUSCBMUS	547
Music Education (Instrumental) (BMUS) FAMUSIIBM	
Music Education (String) (BMUS) FAMUSISBM	
Music Therapy (BMUS) FAMUSTHBM	
Performance (Collaborative Piano) (BMUS) FAMUSPPBM	
Performance (Guitar) (BMUS) FAMUSPGBM	
Performance (Jazz) (BMUS) FAMUSPJBM	
Performance (Keyboard) (BMUS) FAMUSPKBM	
Performance (Music Theatre) (BMUS) FAMUSPMBM	
Performance (Orchestral Instrument) (BMUS) FAMUSPOBM	
Performance (Voice) (BMUS) FAMUSPVBM	
Theatre (BA) FATHEBA	
Theatre (Acting) (BA) FATHEABA	
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Theatre (Design and Production) (BA) FADSNPRBA	554
Theory and Composition (Composition) (BMUS) FAMUSTCBM	
Theory and Composition (Theory) (BMUS) FAMUSTTBM	555
BUSINESS, W. P. CAREY SCHOOL OF	556
Accountancy (BS) BAACCBS	556
Business (Communication) (BA) BABUSCBA	557
Business (Sustainability) (BA) BABUSSBA	557
Business (Tourism) (BA) BABUSTBA	558
Business (Urban Policy) (BA) BABUSUBA	558
Computer Information Systems (BS) BACISBS	559
Economics (BS) BAECNBS	560
Finance (BS) BAFINBS	560
Management (BS) BAMGTBS	
Management (Entrepreneurship) (BS) BAMGTEBS	562
Marketing (BS) BAMKTBS	563
Supply Chain Management (BS) BASCMBS	563
Design, College of	
Architectural Studies (BSD) ARSTDBSD	564
Design Studies (BA) ARDSNBA	
Design Studies (Design History) (BA) ARDSNHBA	
Design Studies (Design Management) (BA) ARDSNMBA	
Graphic Design (BSD) ARGRABSD	
Housing and Community Development (BSD) ARHCDBSD	
Industrial Design (BSD) ARINDBSD	566
Interior Design (BSD) ARINTBSD	
Landscape Architecture (BSLA) ARPLABSLA	567
Urban Planning (BSP) ARPUPBSP	567
Education, Mary Lou Fulton College of	
Early Childhood Education (BAE) EDECDBAE	
Elementary Education (BAE) EDEEDBAE	
Elementary Education (Indigenous Teacher Preparation) (BAE) EDIEDBAE	
Elementary Education (Multilingual/Multicultural) (BAE) EDMLMCBAE	
Secondary Education (Biological Sciences) (BAE) EDBIOBAE	
Secondary Education (Business) (BAE) EDBUSBAE	
Secondary Education (Chemistry) (BAE) EDCHMBAE	
Secondary Education (Earth and Space Sciences) (BAE) EDESSBAE	
Secondary Education (Economics) (BAE) EDECNBAE	
Secondary Education (English) (BAE) EDENGBAE	
Secondary Education (French) (BAE) EDFREBAE	
Secondary Education (Geography) (BAE) EDGCUBAE	
Secondary Education (German) (BAE) EDGERBAE	
Secondary Education (History) (BAE) EDHISBAE	
Secondary Education (Japanese) (BAE) EDJPNBAE	
Secondary Education (Mathematics) (BAE) EDMATBAE	
Secondary Education (Physics) (BAE) EDPHYBAE	
Secondary Education (Political Science) (BAE) EDPOSBAE	
Secondary Education (Social Studies) (BAE) EDSSTBAE	
Secondary Education (Spanish) (BAE) EDSPABAE	
Special Education (BAE) EDSPEBAE	
EDUCATIONAL INNOVATION AND TEACHER PREPARATION, SCHOOL OF	
Early Childhood Education (BAE) ECEDCBAE	
Elementary Education (BAE) ECEEDBAE	
Secondary Education (Physical Education) (BAE) ECPPEBAE	
Special Education (BAE) ECSPEBAE	576

Engineering, Ira A. Fulton School of	576
Aerospace Engineering (Aeronautics) (BSE) ESAEROBSE	577
Aerospace Engineering (Astronautics) (BSE) ESAEASBSE	578
Bioengineering (BSE) ESBMEBSE	579
Chemical Engineering (BSE) ESCHEBSE	580
Civil Engineering (BSE) ESCEEBSE	580
Civil Engineering (Construction Engineering) (BSE) ESCEECBSE	581
Civil Engineering (Environmental Engineering) (BSE) ESCEEEBSE	582
Computer Science (BS) ESCSEBS	583
Computer Systems Engineering (BSE) ESCSEBSE	584
Construction (Concrete Industry Management) (BS) ESCONIMBS	585
Construction (General Building Construction) (BS) ESCONGBS	586
Construction (Heavy Construction) (BS) ESCONHBS	587
Construction (Residential Construction) (BS) ESCONRBS	588
Construction (Specialty Construction) (BS) ESCONSBS	588
Electrical Engineering (BSE) ESEEEBSE	589
Electrical Engineering (Electric Power and Energy Systems) (BSE) ESEEEPBSE	590
Engineering Special Studies (Premedical Engineering) (BSE) ESESPPBSE	591
Industrial Engineering (BSE) ESIEEBSE	592
Materials Science and Engineering (BSE) ESMSEBSE	593
Mechanical Engineering (BSE) ESMAEMBSE	594
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JOURNALISM AND MASS COMMUNICATION, WALTER CRONKITE SCHOOL OF	598
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LETTERS AND SCIENCES, SCHOOL OF	599
Interdisciplinary Studies (BIS) LSBISBIS	599
Interdisciplinary Studies (Organizational Studies) (BIS) LSORGBIS	599
LIBERAL ARTS AND SCIENCES, COLLEGE OF	600
African and African American Studies (BA) LAAFRBA	600
American Indian Studies (BS) LAAISBS	600
Anthropology (BA) LAASBBA	601
Asian Languages - Chinese (BA) LACHIBA	601
Asian Languages - Japanese (BA) LAJPNBA	601
Biochemistry (BA) LABCHBA	602
Biochemistry (BS) LABCHBS	602
Biochemistry (Medicinal Chemistry) (BS) LABCHMBS	602
Biological Sciences (BS) LABSCBS	603
Biological Sciences (Animal Physiology and Behavior) (BS) LABSCABS	603
Biological Sciences (Biology and Society) (BS) LABSCSBS	603
Biological Sciences (Conservation Biology and Ecological Sustainability) (BS) LABSCCBS	604
Biological Sciences (Ecology and Evolution) (BS) LABSCEBS	604
Biological Sciences (Genetics, Cell and Developmental Biology) (BS) LABSCGBS	604
Biological Sciences (Genomics and Bioinformatics) (BS) LABSCBBS	604
Biological Sciences (Plant Biology) (BS) LABSCPBS	605
Chemistry (BA) LACHMBA	605
Chemistry (BS) LACHMBS	605
Chemistry (Environmental Chemistry) (BS) LACHMEBS	606
Communication (BA) LACOMBA	606
Communication (BS) LACOMBS	606
Computational Mathematical Sciences (BS) LACMSBS	607
Earth and Space Exploration (BS) LASESBS	607

	Economics (BS) LAECNBS	
	English (Creative Writing) (BA) LAENGCBA	
	English (Linguistics) (BA) LAENGNBA	
	English (Literature) (BA) LAENGTBA	
	Family and Human Development (BS) LAFASBS	
	Film (Film and Media Studies) (BA) LAFMSBA	
	French (BA) LAFREBA	
	Geography (BA) LAGCUBA	
	Geography (BS) LAGCUBS	
	Geography (Meteorology-Climatology) (BS) LAGCUMBS	
	Geography (Urban Studies) (BS) LAGCUUBS	
	Geological Sciences (BS) LAGLGBS	
	German (BA) LAGERBA	
	Global Health (BA) LASSHBA	
	Global Studies (BA) LASGSBA	
	History (BA) LAHISBA	613
	Integrated Studies (BA) LAISTBA	
	Integrated Studies (BS) LAISTBS	613
	International Letters and Cultures (BA) LASLCBA	614
	Italian (BA) LAITABA	614
	Justice Studies (BS) LAJUSBS	614
	Kinesiology (BS) LAKINBS	615
	Liberal Studies (BLS) LABLSBLS	615
	Mathematics (BA) LAMATBA	616
	Mathematics (BS) LAMATBS	616
	Mathematics (Statistics) (BS) LAMATTBS	616
	Microbiology (BS) LAMICBS	617
	Molecular Biosciences/Biotechnology (BS) LAMBBBS	617
	Philosophy (BA) LAPHIBA	617
	Physics (BS) LAPHYBS	618
	Political Science (BA) LAPOSBA	618
	Political Science (BS) LAPOSBS	618
	Pre-Health/Pre-Med Professions (BNODEG) LAMEDPRE	
	Pre-Law (BNODEG) LALAWPRE	
	Psychology (BA) LAPGSBA	
	Psychology (BS) LAPGSBS	
	Religious Studies (BA) LARELBA	
	Russian (BA) LARUSBA	
	Sociology (BA) LASOCBA	621
	Spanish (BA) LASPABA	
	Speech and Hearing Science (BS) LASHSBS	
	Transborder Chicana/o and Latina/o Studies (Media, Literature and Arts) (BA) LATCLMBA	
	Transborder Chicana/o and Latina/o Studies (Transborder Community Development and Health) (BA) LATCLTBA	
	Transborder Chicana/o and Latina/o Studies (US and Mexican Regional Immigration Policy and Economy) (BA)	022
	LATCLUBA	623
	Women and Gender Studies (BA) LAWSTBA	
1./	IANAGEMENT AND AGRIBUSINESS, MORRISON SCHOOL OF	
14.	Agribusiness (Agribusiness Finance) (BS) AGAGBNBS	
	Agribusiness (Food Science) (BS) AGAGBFBS	
	Agribusiness (Food/Agribusiness and Consumer Product Marketing) (BS) AGAGBDBS	
	Agribusiness (General Agribusiness) (BS) AGAGBGBS	
	Agribusiness (Geleral Agribusiness) (BS) AGAGBGBS	
	Agribusiness (International Agribusiness) (BS) AGAGBIBS	
	Agribusiness (International Agribusiness) (BS) AGAGRIRS  Agribusiness (Management of Agribusiness) (RS) AGAGRIRS	023 625

Agribusiness (Preveterinary Medicine) (BS) AGAGBPBS	626
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Business Administration (BS) AGBUABS	626
Real Estate (BS) AGREABS	627
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American Studies (BA) ASAMSBA	627
Applied Computing (BS) ASACOBS	627
Applied Mathematics (BS) ASMATBS	628
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Communication Studies (BA) ASCOMBA	629
Communication Studies (BS) ASCOMBS	629
English (BA) ASENGBA	629
Ethnicity, Race, First Nation Studies (BA) ASETHBA	630
History (BA) ASHISBA	
Integrative Studies (BA) ASIASBA	
Interdisciplinary Arts and Performance (BA) ASIAPBA	
Life Sciences (BS) ASLSCBS	
Political Science (BA) ASPOLBA	
Political Science (BS) ASPOLBS	
Psychology (BA) ASPGSBA	
Psychology (BS) ASPGSBS	
Religion and Applied Ethics Studies (BA) ASRELBA	
Social and Behavioral Sciences (Behavioral Sciences) (BA) ASSBSBBA	
Social and Behavioral Sciences (Behavioral Sciences) (BS) ASSBSBS	
Social and Behavioral Sciences (Social Sciences) (BA) ASSBSSBA	
Social and Behavioral Sciences (Social Sciences) (BS) ASSBSSBS	
Sociology (BA) ASSOCBA	
Sociology (BS) ASSOCBS	
Spanish (BA) ASSPABA	
Women's Studies (BA) ASWSTBA	
Women's Studies (BS) ASWSTBS	
Nursing & Healthcare Innovation, College of	
Nursing (BSN) NUNURDBSN	
PUBLIC PROGRAMS, COLLEGE OF	
Criminal Justice and Criminology (BS) PPCRIMJBS	
Nonprofit Leadership and Management (BS) PPNLMBS	
Parks and Recreation Management (BS) PPPRMBS	
Social Work (BSW) PPSWUSWU	
Tourism Development and Management (BS) PPTDMBS	
Urban and Metropolitan Studies (BA) PPURBBA	
Urban and Metropolitan Studies (BS) PPURBBS	
SUSTAINABILITY, SCHOOL OF	
Sustainability (BA) SUSUSTBA	
Sustainability (BS) SUSUSTBS	
TEACHER EDUCATION AND LEADERSHIP, COLLEGE OF	
Early Childhood Teaching and Leadership (BAE) TEECTLBAE	
Elementary Education (BAE) TEEEDBAE	
Elementary Education (Bilingual Education) (BAE) TEBLEBAE	
Elementary Education (English as a Second Language) (BAE) TEESLBAE	
Secondary Education (English) (BAE) TEENGBAE	
Secondary Education (English) (BAE) TEENOBAE  Secondary Education (History) (BAE) TEHISBAE	
Secondary Education (Mistory) (BAE) TEMSBAE  Secondary Education (Mathematics) (BAE) TEMATBAE	
Secondary Education (Natural Sciences) (BAE) TENSCBAE	
Secondary Education (Natural Sciences) (BAE) TESSTBAE	
Secondary Daniel (Second Simulator) (DID) I DOSIDID	

Special Education (BAE) TESPEBAE	645
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Air Traffic Management (BS) TSATMBS	646
Applied Computer Science (BS) TSACSBS	646
Applied Science (BAS) TSAPSBAS	647
Applied Science (Fire Service Management) (BAS) TSIMCFBAS	647
Applied Science (Internet and Web Development) (BAS) TSIWDBAS	647
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Electronics Engineering Technology (Electronic Systems) (BS) TSEETEBS	649
Electronics Engineering Technology (Integrated Systems) (BS) TSEETINBS	650
Electronics Engineering Technology (Telecommunications) (BS) TSEETTBS	
Engineering (BSE) TSEGRBSE	650
Environmental Technology Management (BS) TSETMBS	650
Graphic Information Technology (BS) TSGITBS	651
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Manufacturing Engineering Technology (Mechanical Engineering Technology) (BS) TSMETMBS	652
Mechanical Engineering Technology (Aeronautical Engineering Technology) (BS) TSMECEBS	652
Mechanical Engineering Technology (Automation Engineering Technology) (BS) TSMECUBS	653
Mechanical Engineering Technology (Automotive Engineering Technology) (BS) TSMECTBS	653
Mechanical Engineering Technology (Mechanical Engineering Technology) (BS) TSMECBS	653
Operations Management Technology (BS) TSOMTBS	654
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