Arizona State University Academic Catalog Archive 2009-2010

This document provides an archival record of the academic programs offered during the 2009-10 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 Academic Catalog 2009-10, 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.

Corrections or additions to the Academic Catalog Archive 2009-10 program information and major maps, as of July 31, 2009, may be provided in a future addendum. For inquiries or questions please contact academic.catalog@asu.edu.



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Science Education (MA) EDSCIMA	
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Secondary Education (MA) EDSECONMA	
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Social and Philosophical Foundations of Education (MA) EDSPFMA	
Social Studies Education (MEd) EDSOCSTMED	
Special Education (MA) EDSPEDMA	
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Technology for Teaching and Learning (Grad Certificate) EDEDTTGRCT	
ENGINEERING, IRA A. FULTON SCHOOL OF	
Aerospace Engineering (MS) ESAEROSPMS	
Aerospace Engineering (MSE) ESAERSPMSE	
Aerospace Engineering (PhD) ESAERSPPHD	
Bioengineering (MS) ESBIOENMS	
Bioengineering (PhD) ESBIOENPHD	
Biomedical Informatics (MS) ESBIOINFMS	
Biomedical Informatics (PHD) ESBMIPHD	
Chemical Engineering (MS) ESCHEMEMS	
Chemical Engineering (MSE) ESCHEMEMSE	
Chemical Engineering (PhD) ESCHEMEPHD	
Civil/Environmental Engineering (MS) ESCIVILMS	
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Computer Science - Art, Media and Eng (MS) ESAMECSMS	
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Computer Science - Information Assurance (MCS) ESCSEIMCS	
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Computer Science (MCS) ESCOMSCMCS	
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Master of Engineering (MEng) ESENGRMENG	
Materials Science and Engineering (MSE) ESMATEMSE	
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Mechanical Engineering (MS) ESMEMS	
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Nuclear Power Generation (Grad Certificate) ESNPGGRCT	
GRADUATE COLLEGE	
Biological Design (PhD) GCBDSPHD	
Human and Social Dimensions of Science and Technology (PhD) GCHSDSTPHD	
Neuroscience (PHD) GCBMENPHD	
Statistics (MS) GCSTATMS	
JOURNALISM AND MASS COMMUNICATION, WALTER CRONKITE SCHOOL OF	
Journalism and Mass Communication PHD CSJMCPHD	
Master of Mass Communication (MMC) CSMCOMMMC	
LAW, SANDRA DAY O'CONNOR COLLEGE OF	
Juris Doctor (JD) LWJDJD	
Law - Biotechnology & Genomics (LLM) LWGENOMLLM	
Law - Legal Studies (MLS) LWLGSMLEGS	
Law, Science, and Technology Certificate LWLAWSTCE	
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LETTERS AND SCIENCES, SCHOOL OF	
Behavioral Health DBH LSBEVHEDBH	
LIBERAL ARTS AND SCIENCES, COLLEGE OF	
African Studies (Grad Certificate) LAAFRICACE	
American Media and Popular Culture (MAS) LAAMPCMAS	
Anthropology (Museum Studies) (MA) LAMUSEUMMA	
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Social and Behavioral Sciences (Minor) ASSBSMIN	
Social Welfare (Minor) LASSWMIN	
Sociocultural Anthropology (Minor) ASASBMIN	
Sociology (Minor) ASSOCMIN	
Sociology (Minor) LASOCMIN	746
Spanish (Minor) ASSPAMIN	746
Spanish (Minor) LASPAMIN	747
Spanish for Native Speakers (Minor) LASPANMIN	
Special Events Management (Minor) HSEVNMIN	
Speech and Hearing Science (Minor) LASHSMIN	
Statistics (Minor) LASTAMIN	751
Theatre (Minor) FATHEMIN	
Tourism (Minor) PPTRMMIN	
Tourism Development and Management (Minor) PPTDMMIN	
Tourism Management (Minor) HSTOUMIN	755
Transborder Chicana/o & Latina/o Studies (Minor) LACCSMIN	
Urban and Metropolitan Studies (Minor) PPURBMIN	
Urban Planning (Minor) ARPUPMIN	
Wellness Foundations (Minor) ECWFNDMIN	
Women and Gender Studies (Minor) LAWSTMIN	
Women's Studies (Minor) ASWSTMIN	
Youth Services Leadership (Minor) HSYSLMIN	
Zoology (Minor) LAZOLMIN	
UNDERGRADUATE PROGRAMS	
UNDERGRADUATE CERTIFICATES (PROGRAM DESCRIPTIONS AND REQUIREMENTS)	766
African and African American Studies (certificate) LAAFRCERT	
Arabic Studies (certificate) LAARBCERT	
Asian Pacific American Studies (certificate) LAAPACERT	
Asian Studies (certificate) LAASNCERT	769
Automotive Entrepreneurs and Leaders (certificate) BADMGCERT	
Child Nutrition (certificate) ECNTRCERC	770
Civic Education (certificate) LACVECERT	
Classical Studies (certificate) LACLGCERT	
Computer Gaming (certificate) ESSCICERT	773

Convention Sales and Meeting Planning (certificate) PPTDMCERT	
Creative City (certificate) PPURBCERC	
Dietetics (certificate) ECNTRCERD	
East Asian Studies (certificate) LAEASCERT	
Entertainment and Technology (Certificate) LAFMSUERE	
Environmental Humanities (Certificate) LAENHCERT	
Ethics (certificate) LAETHCERT	
Ethnic Studies (certificate) ASETHCERT	
Film and Video Studies (Certificate) ASVIDCERT	
Geographic Information Science (certificate) LAGISCERT	
Hazardous Materials and Waste Management (certificate) TSETMCERT	785
History and Culture (Certificate) ECHTYUERT	
History and Philosophy of Science (certificate) LAHPSCERT	
Honors Business Modeling and Analysis (certificate) BAECNUERT	
Human Rights (Certificate) LAHRTSCERT	
Informatics (certificate) ESCPICERT	
International Business (certificate) BAIBSCERT	
International Studies (certificate) LAINSCERT	794
Islamic Studies (certificate) LAISLCERT	
Jewish Studies (certificate) LAJUDCERT	
Latin American Studies (certificate) LALASCERT	
Leadership and Ethics (certificate) PPLDECERT	
Lesbian, Gay, Bisexual, and Transgender Studies (certificate) PPLGBTCERT	799
Literature, Writing and Film (certificate) LAMRSCERT	
Medieval and Renaissance Studies (certificate) LAMRSCERT	
Multimedia Writing and Technical Communication (certificate) ECTWCCERT	
Nonprofit Leadership and Management: American Humanities (certificate) PPN	
Philosophy, Politics and Law (certificate) HOPPLCERT	
Public Administration and Public Management (certificate) PPPAFCERT	
Religion and Conflict (certificate) LARELCERT	
Russian and East European Studies (certificate) LAREECERT	
Small Business and Entrepreneurship (certificate) BASMBCERT	
Southeast Asian Studies (certificate) LASALCERT	810
Spa Management (certificate) ECEXWCERT	
Special Events Management (certificate) HSRTMUERT	
Symbolic Systems (certificate) LAPHICERT	
Technology Entrepreneurship (certificate) ESTNECERT	814
Translation (certificate) LASPACERT	
Women and Gender Studies (certificate) LAWSTCERT	
Women's Studies (certificate) ASWSTCERT	
Writing (certificate) LAENGCERT	
Writing Program (certificate) ASWRTCERT	819
UNDERGRADUATE PROGRAMS	
UNDERGRADUATE DEGREES (PROGRAM DESCRIPTIONS)	
BUSINESS, W. P. CAREY SCHOOL OF	
Accountancy (BS) BAACCBS	
Agribusiness (Agribusiness Science) (BS) AGAGBPBS	
Agribusiness (Global Agribusiness) (BS) AGAGBGBS	

Business (Communication) (BA) BABUSCBA
Business (Sustainability) (BA) BABUSSBA82Business (Tourism) (BA) BABUSTBA82Business (Urban Policy) (BA) BABUSUBA82Business Administration (BS) AGBUABS82Business Administration (Financial Services) (BS) AGBUAFBS82Business Administration (Retail Management) (BS) AGBUARBS82Business Administration (Retail Management) (BS) AGBUARBS82Business Administration (Retail Management) (BS) AGBUARBS83Economics (BS) BAECNBS83Finance (BS) BAFINBS83Management (BS) BAMGTBS83Management (Entrepreneurship) (BS) BAMGTEBS83Marketing (BS) BAMKTBS83Supply Chain Management (BS) BASCMBS83DESIGN AND THE ARTS, HERBERGER INSTITUTE FOR84Architectural Studies (BSD) ARSTDBSD84Art (Art Education) (BFA) FAARTEBFA84
Business (Tourism) (BA) BABUSTBA82Business (Urban Policy) (BA) BABUSUBA82Business Administration (BS) AGBUABS82Business Administration (Financial Services) (BS) AGBUAFBS82Business Administration (Retail Management) (BS) AGBUARBS82Computer Information Systems (BS) BACISBS83Economics (BS) BAECNBS83Finance (BS) BAFINBS83Management (BS) BAMGTBS83Management (Entrepreneurship) (BS) BAMGTEBS83Marketing (BS) BAMKTBS83Supply Chain Management (BS) BASCMBS83Supply Chain Management (BS) AGREABS83Architectural Studies (BSD) ARSTDBSD84Art (Art Education) (BFA) FAARTEBFA84
Business (Urban Policy) (BA) BABUSUBA
Business Administration (BS) AGBUABS82Business Administration (Financial Services) (BS) AGBUAFBS82Business Administration (Retail Management) (BS) AGBUARBS82Computer Information Systems (BS) BACISBS83Economics (BS) BAECNBS83Finance (BS) BAFINBS83Management (BS) BAMGTBS83Management (Entrepreneurship) (BS) BAMGTEBS83Marketing (BS) BAMKTBS83Supply Chain Management (BS) BASCMBS83Supply Chain Management (BS) BASCMBS83Architectural Studies (BSD) ARSTDBSD84Art (Art Education) (BFA) FAARTEBFA84
Business Administration (Financial Services) (BS) AGBUAFBS.82Business Administration (Retail Management) (BS) AGBUARBS.82Computer Information Systems (BS) BACISBS83Economics (BS) BAECNBS.83Finance (BS) BAFINBS83Management (BS) BAMGTBS.83Management (Entrepreneurship) (BS) BAMGTEBS.83Marketing (BS) BAMKTBS.83Supply Chain Management (BS) BASCMBS.83Supply Chain Management (BS) BASCMBS.83Architectural Studies (BSD) ARSTDBSD.84Art (Art Education) (BFA) FAARTEBFA84
Business Administration (Retail Management) (BS) AGBUARBS
Computer Information Systems (BS) BACISBS83Economics (BS) BAECNBS83Finance (BS) BAFINBS83Management (BS) BAMGTBS83Management (Entrepreneurship) (BS) BAMGTEBS83Marketing (BS) BAMKTBS83Real Estate (BS) AGREABS83Supply Chain Management (BS) BASCMBS83DESIGN AND THE ARTS, HERBERGER INSTITUTE FOR84Architectural Studies (BSD) ARSTDBSD84Art (Art Education) (BFA) FAARTEBFA84
Economics (BS) BAECNBS83Finance (BS) BAFINBS83Management (BS) BAMGTBS83Management (Entrepreneurship) (BS) BAMGTEBS83Marketing (BS) BAMKTBS83Marketing (BS) BAMKTBS83Supply Chain Management (BS) BASCMBS83DESIGN AND THE ARTS, HERBERGER INSTITUTE FOR84Architectural Studies (BSD) ARSTDBSD84Art (Art Education) (BFA) FAARTEBFA84
Finance (BS) BAFINBS83Management (BS) BAMGTBS83Management (Entrepreneurship) (BS) BAMGTEBS83Marketing (BS) BAMKTBS83Real Estate (BS) AGREABS83Supply Chain Management (BS) BASCMBS83DESIGN AND THE ARTS, HERBERGER INSTITUTE FOR84Architectural Studies (BSD) ARSTDBSD84Art (Art Education) (BFA) FAARTEBFA84
Management (BS) BAMGTBS
Management (Entrepreneurship) (BS) BAMGTEBS
Marketing (BS) BAMKTBS
Real Estate (BS) AGREABS 83 Supply Chain Management (BS) BASCMBS 83 DESIGN AND THE ARTS, HERBERGER INSTITUTE FOR 84 Architectural Studies (BSD) ARSTDBSD 84 Art (Art Education) (BFA) FAARTEBFA 84
Supply Chain Management (BS) BASCMBS
DESIGN AND THE ARTS, HERBERGER INSTITUTE FOR
Architectural Studies (BSD) ARSTDBSD84 Art (Art Education) (BFA) FAARTEBFA84
Architectural Studies (BSD) ARSTDBSD84 Art (Art Education) (BFA) FAARTEBFA84
AIL (AIL HISTOLY) (DAJ FAAN I NDA
Art (Art Studies) (BA) FAARTSTDBA84
Art (Ceramics) (BFA) FAARTCBFA
Art (Drawing) (BFA) FAARTDBFA84
Art (Fibers) (BFA) FAARTFBFA84
Art (Intermedia) (BFA) FAARTIBFA84
Art (Metals) (BFA) FAARTMBFA85
Art (Museum Studies) (BA) FAARTMSBA85
Art (Painting) (BFA) FAARTPABFA85
Art (Photography) (BFA) FAARTPHBFA85
Art (Printmaking) (BFA) FAARTPMBFA85
Art (Sculpture) (BFA) FAARTSBFA85
Arts (BA in the Arts) (BA) FAATSBA85
Dance (BFA) FADANBFA85
Dance (Dance Education) (BFA) FADANEBFA85
Design Studies (BA) ARDSNBA86
Design Studies (Design History) (BA) ARDSNHBA86
Design Studies (Design Management) (BA) ARDSNMBA86
Film (Film & Media Production) (BA) FAFLMBA86
Film (Filmmaking Practices) (BA) FAFPRBA86
Graphic Design (BSD) ARGRABSD86
Housing & Community Development (BSD) ARHCDBSD86
Industrial Design (BSD) ARINDBSD86
Interior Design (BSD) ARINTBSD86
Landscape Architecture (BSLA) ARPLABSLA86
Music (BA) FAMUSBA86
Music Education (Choral-General) (BMUS) FAMUSCBMUS86
Music Education (Instrumental) (BMUS) FAMUSIIBM86
Music Education (String) (BMUS) FAMUSISBM86
Music Therapy (BMUS) FAMUSTHBM87

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	
Theatre (Design & Production) (BA) FADSNPRBA	
Theory & Composition (Composition) (BMUS) FAMUSTCBM	
Theory & Composition (Theory) (BMUS) FAMUSTTBM	
ENGINEERING, IRA A. FULTON SCHOOL OF.	
Aerospace Engineering (Aeronautics) (BSE) ESAEROBSE	
Aerospace Engineering (Astronautics) (BSE) ESAEASBSE	
Bioengineering (BSE) ESBMEBSE	
Biomedical Informatics (BS) ESBMIBS	
Chemical Engineering (BSE) ESCHEBSE	
Civil Engineering (BSE) ESCEEBSE	
Civil Engineering (Construction Engineering) (BSE) ESCEECBSE	
Civil Engineering (Environmental Engineering) (BSE) ESCEEEBSE	
Computer Science (BS) ESCSEBS	
Computer Systems Engineering (BSE) ESCSEBSE	
Construction (Concrete Industry Management) (BS) ESCONIMBS	
Construction (General Building Construction) (BS) ESCONGBS	
Construction (Heavy Construction) (BS) ESCONHBS	
Construction (Residential Construction) (BS) ESCONRBS	
Construction (Specialty Construction) (BS) ESCONSBS	
Electrical Engineering (BSE) ESEEEBSE	
Electrical Engineering (Electric Power and Energy Systems) (BSE) ESEEEPBSE	
Engineering Special Studies (Premedical Engineering) (BSE) ESESPPBSE	
Industrial Engineering (BSE) ESIEEBSE	
Materials Science & Engineering (BSE) ESMSEBSE	
Mechanical Engineering (BSE) ESMAEMBSE	
Mechanical Engineering (Computational and Mathematical Mechanics) (BSE)	
ESMAECBSE	
Mechanical Engineering (Energy & Environment) (BSE) ESMAEEBSE	
HONORS – BARRETT, THE HONORS COLLEGE	
Honors College 9HOHONALL	
JOURNALISM AND MASS COMMUNICATION, WALTER CRONKITE SCHOOL OF	
Journalism & Mass Communication (BA) CSJMCBA	
LAW, SANDRA DAY O'CONNOR COLLEGE OF.	
Legal Studies (BS) LWLAWBS	
LETTERS AND SCIENCES, SCHOOL OF	
Applied Science (Technical Communication) (BAS) LSTECBAS	
General Studies (BGS) LSGNSBGS	
History & Culture (BA) ECHSTCULBA	
Interdisciplinary Studies (BIS) LSBISBIS	
Interdisciplinary Studies (BIS) LSBISBIS	
Interdisciplinary Studies (Management Communication) (BIS) LSMGTCBIS	

Interdisciplinary Studies (Organizational Studies) (BIS) LSORGBIS	
Liberal Studies (BLS) LABLSBLS	
Literature, Writing & Film (BA) ECLWFBA	
Science, Technology and Society (BS) ECSTSBS	
Technical Communication (BS) LSTECBS	
LIBERAL ARTS AND SCIENCES, COLLEGE OF	
African & African American Studies (BA) LAAFRBA	
American Indian Studies (BS) LAAISBS	
Anthropology (BA) LAASBBA	
Applied Mathematics for Life and Social Sciences (BS) LAAMLBS	
Asia Studies (East Asia) (BA) LAHSTEABA	
Asia Studies (South Asia) (BA) LAHSTSABA	
Asia Studies (Southeast Asia) (BA) LAHSTSEABA	
Asian Languages - Chinese (BA) LACHIBA	
Asian Languages - Japanese (BA) LAJPNBA	
Biochemistry (BA) LABCHBA	938
Biochemistry (BS) LABCHBS	938
Biochemistry (Medicinal Chemistry) (BS) LABCHMBS	
Biological Sciences (BS) LABSCBS	939
Biological Sciences (Animal Physiology & Behavior) (BS) LABSCABS	
Biological Sciences (Biology & Society) (BS) LABSCSBS	
Biological Sciences (Conservation Biology & Ecological Sustainability) (BS) LABSC	CBS
Biological Sciences (Ecology & Evolution) (BS) LABSCEBS	
Biological Sciences (Genetics, Cell & Developmental Biology) (BS) LABSCGBS	
Biological Sciences (Genomics & Bioinformatics) (BS) LABSCBBS	
Biological Sciences (Plant Biology) (BS) LABSCPBS	
Chemistry (BA) LACHMBA	
Chemistry (BS) LACHMBS	
Chemistry (Environmental Chemistry) (BS) LACHMEBS	
Clinical Laboratory Sciences (BS) LACLSBS	
Communication (BA) LACOMBA	
Communication (BS) LACOMBS	
Computational Mathematical Sciences (BS) LACMSBS	
Earth & Space Exploration (BS) LASESBS	
Economics (BS) LAECNBS	
English (Creative Writing) (BA) LAENGCBA	
English (Minor) LAARTHMIN	
English (Linguistics) (BA) LAENGNBA	
English (Literature) (BA) LAENGTBA	
Family & Human Development (BS) LAFASBS	
Film (Film & 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	960

Global Studies (BA) LASGSBA	
History (BA) LAHISBA	
Integrated Studies (BA) LAISTBA	
Integrated Studies (BS) LAISTBS	
International Letters and Cultures (BA) LASLCBA	
International Letters & Cultures (Classics) (BA) LASLCCBA	
Italian (BA) LAITABA	
Justice Studies (BS) LAJUSBS	
Kinesiology (BS) LAKINBS	
Mathematics (BA) LAMATBA	
Mathematics (BS) LAMATBS	
Mathematics (Statistics) (BS) LAMATTBS	
Microbiology (BS) LAMICBS	
Molecular Biosciences/Biotechnology (BS) LAMBBBS	
Philosophy (BA) LAPHIBA	
Physics (BS) LAPHYBS	
Political Science (BA) LAPOSBA	
Political Science (BS) LAPOSBS	
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 (BS) LASOCBS	
Spanish (BA) LASPABA	
Speech & Hearing Science (BS) LASHSBS	
Transborder Chicana/o & Latina/o Studies (Media, Literature and A	
Transborder Chicana/o & Latina/o Studies (Transborder Community	
Health) (BA) LATCLTBA	
Transborder Chicana/o & Latina/o Studies (US and Mexican Regiond	
Policy & Economy) (BA) LATCLUBA	
Urban Planning (BSP) ARPUPBSP	
Women & Gender Studies (BA) LAWSTBA	
New College of Interdisciplinary Studies	
American Studies (BA) ASAMSBA	
Applied Computing (BS) ASACOBS	
Applied Mathematics (BS) ASMATBS	
Applied Science (BAS) ASBASBAS	
Communication Studies (BA) ASCOMBA	
Communication Studies (BS) ASCOMBS	
English (BA) ASENGBA	
Ethnicity, Race, First Nation Studies (BA) ASETHBA	
History (BA) ASHISBA	
Integrative Studies (BA) ASIASBA	
Interdisciplinary Arts & Performance (BA) ASIAPBA	
Life Sciences (BS) ASLSCBS	
Political Science (BA) ASPOLBA	
Political Science (BS) ASPOLBS	

Psychology (BA) ASPGSBA	
Psychology (BS) ASPGSBS	
Religion & Applied Ethics Studies (BA) ASRELBA	
Social & Behavioral Sciences (Behavioral Sciences) (BA) ASSBSBBA	
Social & Behavioral Sciences (Behavioral Sciences) (BS) ASSBSBBS	
Social & Behavioral Sciences (Social Sciences) (BA) ASSBSSBA	
Social & 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 AND HEALTH INNOVATION, COLLEGE OF	
Applied Science (Food Service Management) (BAS) ECNTRBAS	
Applied Science (Wellness) (BAS) ECEXWBAS	
Exercise & Wellness (Exercise & Wellness) (BS) ECEXWBS	
Exercise & Wellness (Health Promotion) (BS) ECEXWHBS	
Nursing (BSN) NUNURDBSN	
Nutrition (Dietetics) (BS) ECNTRDBS	
Nutrition (Food & Nutrition Management) (BS) ECNTRMBS	
Nutrition (Human Nutrition) (BS) ECNTRHBS	
Nutrition (Nutrition Communication) (BS) ECNTRCBS	
PUBLIC PROGRAMS, COLLEGE OF	
Criminal Justice & Criminology (BS) PPCRIMJBS	
Nonprofit Leadership & Management (BS) PPNLMBS	
Parks & Recreation Management (BS) PPPRMBS	
Parks & Recreation Management (Therapeutic Recreation) (BS) PPPRM	
Social Work (BSW) PPSWUSWU	
Tourism Development & Management (BS) PPTDMBS	
Urban & Metropolitan Studies (BA) PPURBBA	
Urban & Metropolitan Studies (BS) PPURBBS	
SUSTAINABILITY, SCHOOL OF	
Sustainability (BA) SUSUSTBA	
Sustainability (BS) SUSUSTBS	
TEACHER EDUCATION AND LEADERSHIP, COLLEGE OF	
Early Childhood Teaching & Leadership (BAE) TEECTLBAE	
Elementary Education (BAE) TEEEDBAE	
Elementary Education (English as a Second Language) (BAE) TEESLBAE	E
Secondary Education (Biological Sciences) (BAE) TEBIOBAE	
Secondary Education (Business) (BAE) EDBUSBAE	
Secondary Education (Chemistry) (BAE) TECHMBAE	
Secondary Education (Earth & Space Sciences) (BAE) EDESSBAE	
Secondary Education (Economics) (BAE) EDECNBAE	
Secondary Education (English) (BAE) TEENGBAE	
Secondary Education (French) (BAE) EDFREBAE	
Secondary Education (Geography) (BAE) EDGCUBAE	
Secondary Education (German) (BAE) EDGERBAE	
Secondary Education (History) (BAE) TEHISBAE	
Secondary Education (Japanese) (BAE) EDJPNBAE	
Secondary Education (Mathematics) (BAE) TEMATBAE	

Secondary Education (Natural Sciences) (BAE) TENSCBAE	1039
Secondary Education (Physical Education) (BAE) ECPPEBAE	1040
Secondary Education (Physics) (BAE) EDPHYBAE	1041
Secondary Education (Political Science) (BAE) EDPOSBAE	
Secondary Education (Social Studies) (BAE) EDSSTBAE	1043
Secondary Education (Spanish) (BAE) TESPABAE	1044
Selected Studies (BAE) EDSLSTBAE	
Special Education (BAE) TESPEBAE	1045
'ECHNOLOGY AND INNOVATION, COLLEGE OF	1046
Aeronautical Management Technology (Air Transportation Management) (BS) TSAMTMBS	1046
Aeronautical Management Technology (Professional Flight) (BS) TSAMTFBS	1046
Air Traffic Management (BS) TSATMBS	
Applied Biological Sciences (Applied Biological Sciences) (BS) TSABSABS	1048
Applied Biological Sciences (Secondary Education in Biology) (BS) TSABSSBS	
Applied Biological Sciences (Urban Horticulture) (BS) TSABSUBS	1049
Applied Biological Sciences (Wildlife & Restoration Ecology) (BS) TSABSRBS	1049
Applied Computer Science (BS) TSACSBS	1050
Applied Psychology (BS) ECPSYBS	1051
Applied Science (BAS) TSAPSBAS	1051
Applied Science (Aviation Management Technology) (BAS) TSAMTABAS	1052
Applied Science (Electronic & Energy Systems) (BAS) TSEESBAS	1053
Applied Science (Emergency Management) (BAS) TSIMCEBAS	1054
Applied Science (Graphic Information Technology) (BAS) TSGITBAS	1054
Applied Science (Internet & Web Development) (BAS) TSIWDBAS	1055
Applied Science (Manufacturing Technology & Management) (BAS) TSMETFBAS	1056
Applied Science (Operations Management Technology) (BAS) TSIMCOBAS	
Applied Science (Software & Computing Systems) TSCSTBAS	
Computer Systems (Computer Hardware Technology) (BS) TSCSTHBS	
Computer Systems (Embedded Systems Technology) (BS) TSCSTMBS	
Electronics Engineering Technology (Alternative Energy Technologies) (BS) TSEET	
Electronics Engineering Technology (Electronic Systems) (BS) TSEETEBS	
Electronics Engineering Technology (Integrated Systems) (BS) TSEETINBS	
Electronics Engineering Technology (Telecommunications) (BS) TSEETTBS	
Engineering (BSE) TSEGRBSE	
Environmental Technology Management (BS) TSETMBS	
Graphic Information Technology (BS) TSGITBS	
Manufacturing Engineering Technology (Manufacturing Engineering Technology) TSMETBS	1064
Manufacturing Engineering Technology (Mechanical Engineering Technology) (BS TSMETMBS	
Mechanical Engineering Technology (Aeronautical Engineering Technology) (BS) TSMECEBS	1065
Mechanical Engineering Technology (Automation Engineering Technology) (BS) TSMECUBS	
Mechanical Engineering Technology (Automotive Engineering Technology) (BS) TSMECTBS	
Mechanical Engineering Technology (Mechanical Engineering Technology) (BS) TSMECBS	
1011000	

Operations Management Technology (BS) TSOMTBS	1068
UNDERGRADUATE PROGRAMS	1070
UNDERGRADUATE EXPLORATORY PROGRAMS (PROGRAM DESCRIPTIONS)	
UNIVERSITY COLLEGE	
Exploratory Health & Life Sciences UCHSCIEXPL	1070
Exploratory Humanities, Fine Arts & Design UCHUFAEXPL	1070
Exploratory Math, Physical Sciences, Engineering & Technology UCEMTPEXPL	1071
Exploratory Social & Behavioral Sciences UCSBSEXPL	1071
UNDERGRADUATE PROGRAMS	1073
UNDERGRADUATE PROGRAMS - OTHER (PROGRAM DESCRIPTIONS)	
Art Exploratory FAARTPREBA	1073
Business – Bachelor of Arts (BA) BABUSBA	1073
Dance Interview FADANPRE	1074
Music Audition FAMUSPRE	
Pre-Health/Pre-Med Professions LAMEDPRE	1074
Pre-Law LALAWPRE	1075
MAJOR MAPS (UNDERGRADUATE PROGRAM REQUIREMENTS)	1077