**Academic Programs**

**Concurrent and Dual Degrees**

Architecture (MArch)/Business Administration (MBA) [1]
Herberger Institute for Design and the Arts [2]/W. P. Carey School of Business [3]

Business Administration (MBA)/Electrical Engineering (MSE) [4]
W. P. Carey School of Business [3]/Department of Electrical Engineering [5]

Business Administration (MBA)/Health Sector Management (MHSM) [6]
W. P. Carey School of Business [3]

Business Administration (MBA)/Industrial Engineering (MSE)
W. P. Carey School of Business [3]/Ira A. Fulton School of Engineering [7]

Business Administration (MBA)/Information Management (MSIM) [8]
W. P. Carey School of Business [3]

Business Administration (MBA)/International Management (MIM)
W. P. Carey School of Business [3]/Carlos III University of Madrid [9] (Spain); Graduate School of Business Administration [10] (Peru); Graduate School of Commerce [11] (France); and Monterrey Institute for Technical and Superior Studies [12], Mexico State Campus (Mexico)

Business Administration (MBA)/Master of Engineering (MENG) Specialization in Embedded Systems
W. P. Carey School of Business [3]/Ira A. Fulton School of Engineering [7]

Business Administration (MBA)/Master of Engineering (MENG) Specialization in Software Engineering
W. P. Carey School of Business [3]/Ira A. Fulton School of Engineering [7]

Business Administration (MBA)/Master of Engineering (MENG) Specialization in Systems Engineering
W. P. Carey School of Business [3]/Ira A. Fulton School of Engineering [7]

Business Administration (MBA)/Taxation (MTax) [13]
W. P. Carey School of Business [3]

Law (JD)/Business Administration (MBA) [14]
Sandra Day O’Connor College of Law [15]/W. P. Carey School of Business [3]

Law (JD)/Justice Studies (PhD) [16]
Sandra Day O’Connor College of Law [15]/School of Justice and Social Inquiry [17]
Law (JD/Medicine (MD) [18]
Sandra Day O’Connor College of Law [15]/Mayo Medical School [19]

Law (JD)/Psychology (PhD) [20]
Sandra Day O’Connor College of Law [15]/Department of Psychology [21]

Professional Accountancy (MPAC)/Business Administration (MBA)
W. P. Carey School of Business [3]

Public Administration (MPA)/Social Work (MSW) [22]
College of Public Programs[23]

* Applications for this program are not being accepted at this time.

Please contact the department for more information.

Source URL: http://catalog.asu.edu/concurrent_dual

Links:
Accelerated Bachelor’s and Master’s Programs

Accounting (BS)/Accountancy (MACC)
W. P. Carey School of Business [1]

Accounting (BS)/Taxation (MTAX)
W. P. Carey School of Business [1]

Aerospace Engineering (BSE/MS)
Ira A. Fulton School of Engineering [2]

Aerospace Engineering (BSE/MSE)
Ira A. Fulton School of Engineering [2]

American Studies (BA)/Interdisciplinary Studies (MA)
New College of Interdisciplinary Arts and Sciences [3]

Biochemistry (BS/MS) - Emphasis in Medicinal Chemistry
College of Liberal Arts and Sciences [4]

Bioengineering (BSE/MS)
Ira A. Fulton School of Engineering [2]

Biology (BS/MS) [5]
College of Liberal Arts and Sciences [4]

Civil Engineering (BSE)/Civil and Environmental Engineering (MS)
Ira A. Fulton School of Engineering [2]

Civil Engineering (BSE)/Civil and Environmental Engineering (MSE)
Ira A. Fulton School of Engineering [2]
Computational Mathematical Sciences (BA)/Mathematics (MA) [6]
Department of Mathematics and Statistics [7]

Computer Science (BS/MS) [8]
School of Computing and Informatics [9]

Computer Systems Engineering (BSE)/Computer Science (MS) [10]
Ira A. Fulton School of Engineering [2]

Criminology (BS)/Criminal Justice (MA)
College of Public Programs [11]

Criminology (BS)/Criminal Justice (MS)
College of Public Programs [11]

Electrical Engineering (BSE/MSE)
Ira A. Fulton School of Engineering [2]

Engineering (BS/MS/MSE)
Ira A. Fulton School of Engineering [2]

Ethnicity, Race and First Nation Studies (BA)/Interdisciplinary Studies (MA)
New College of Interdisciplinary Arts and Sciences [3]

History (BA/MA)
College of Liberal Arts and Sciences [4]

Industrial Engineering (BSE/MS/MSE)
Ira A. Fulton School of Engineering [2]

Integrative Studies (BA)/Interdisciplinary Studies (MA)
New College of Interdisciplinary Arts and Sciences [3]

Interdisciplinary Studies (BA/BS/MA)
New College of Interdisciplinary Arts and Sciences [3]

Journalism and Mass Communication (BA/MMC) [12]
Walter Cronkite School of Journalism and Mass Communication [13]

Materials Science and Engineering (BSE/MS)
Ira A. Fulton School of Engineering [2]

Materials Science and Engineering (BSE/MSE)
Ira A. Fulton School of Engineering [2]

Mathematics (BS/MA) [6]
College of Liberal Arts and Sciences [4]

Mechanical Engineering (BSE/MS)
Ira A. Fulton School of Engineering [2]
Parks and Recreation Management (BS)/Recreation and Tourism Studies (MS) [14]
College of Public Programs [11], School of Community Resources and Development [15]

Planning (BSP/MUEP) [6]
College of Liberal Arts and Sciences [4], Herberger Institute for Design and the Arts [16]

Political Science (BA/MA) [17]
College of Liberal Arts and Sciences [4]

Social and Behavioral Sciences (BA or BS)/Interdisciplinary Studies (MA) [6]
New College of Interdisciplinary Arts and Sciences [3]

Tourism Development and Management (BS)/Recreation and Tourism Studies(MS) [14]
College of Public Programs, School of Community Resources and Development

Women’s Studies (BA or BS)/Interdisciplinary Studies (MA)
New College of Interdisciplinary Arts and Sciences [3]

Source URL: http://catalog.asu.edu/accelerated

Links:
GRADUATE PROGRAMS

Graduate Degrees and Certificates (Program Descriptions and Requirements)

Business, W. P. Carey School of

Accountancy (MACC) BAACCMACC
W. P. Carey School of Business

Official Degree Awarded: MAcc Accountancy

Program Description: The M.Acc. program is structured to provide students with an in-depth working knowledge of advanced accounting topics that are most relevant in today's business environment. The program prepares students for a wide range of professional careers in accounting and also aids significantly in preparation for the certified public accountant examination. The M.Acc. program also offers an emphasis in information systems.

Program Requirement: The M.Acc. offers a cohort-based, part-time and a cohort-based, full-time program. The full-time program, which requires a bachelor's degree in accountancy, consists of 30 credit hours which span over three ten-week trimesters (August through May). The part-time program, which requires a bachelor's degree in an area of business, consists of 36 credit hours over a two-year period of study. The curriculum is constantly updated.

Admission Requirements: All applicants are required to submit an online application to the Graduate College. Complete application instructions may be obtained from the school's Web site. Students applying to this program must submit scores from the GMAT. International applicants whose native language is not English must submit scores from the Test of English as a Foreign Language (TOEFL) examination. Preference in admission is given to those with degrees in accounting and business, although other exceptional candidates are considered.

Contact:
School of Accountancy
http://wpcarey.asu.edu/acc/macc.cfm
wpcareyacc@asu.edu
BA 223Q
480/965-3631

Accountancy (PhD) BAACCTPHD
W.P. Carey School of Business

Official Degree Awarded: PHD Business Administration (Accountancy)
Program Description: The objective of the Ph.D. in business administration with a concentration in accountancy is to prepare scholars to conduct high-quality research and to teach in the fields of:

- Financial and managerial accounting.
- Auditing.
- Information systems.
- Taxation.

This program allows students to develop the capability to review, analyze, conduct and publish research through a series of research seminars and theory-building and statistical course work that supplement and complement students’ abilities and desires. In addition, Ph.D. students participate in ongoing research projects in conjunction with faculty members in the School of Accountancy.

Program Requirement:

Program of Study

A minimum of 84 credit hours is required for the Ph.D. degree; 12 (and only 12) of these hours must be 799 Dissertation. Of the 84 credit hours, at least 30 hours (which may include research credit) of the approved Ph.D. program and 12 dissertation hours must be completed after admission to the student's Ph.D. program. Students may not apply credit hours earned for a doctoral degree previously awarded by ASU or another institution toward their current ASU doctoral degree. However, at the individual academic unit's discretion, students may apply up to 30 credit hours from a previously awarded master's degree toward their doctoral program of study.

Students work with their study committees to determine an appropriate program of study. Common areas of functional specialization among doctoral studies include financial and managerial accounting, auditing, information systems and taxation. With these functional areas, doctoral studies may emphasize experimental or archival research methods. All accountancy doctoral students are required to take a three-semester sequence of accountancy doctoral course work. A maximum of six approved graduate credit hours can be transferred to satisfy program requirements.

Comprehensive Examinations

Upon completion of all necessary course work on a student's approved program of study, the academic unit may initiate the scheduling and administering of a student’s comprehensive examinations. The comprehensive examination consists of a minimum of a written exam; at the discretion of the academic unit, an oral exam may also be required.

Candidacy
Ph.D. students achieve candidacy status in a letter from the dean of the Graduate College upon:

1. Passing the comprehensive examinations.
2. Successfully defending the dissertation prospectus.

**Dissertation Requirements**

Students are required to present a dissertation to satisfy the research requirement for the Ph.D. degree. The dissertation is defended in an oral examination commonly known as the dissertation defense.

Students must be enrolled for at least one credit hour that appears on the program of study or one hour of appropriate graduate-level credit (such as 795 Continuing Registration) during the semester (including summer session) in which the student defends the dissertation.

Note: For detailed information regarding the university's doctoral degree requirements, please refer to the Graduate College's Doctor of Philosophy policy and procedures.

**Maximum Time Limit**

Doctoral students must complete all program requirements within a 10-year period. The 10-year period starts with the initial enrollment into the doctoral program. In addition, the student must take the final oral examination in defense of the dissertation within five years after passing the comprehensive examinations. Any exception must be approved by the supervisory committee and the dean of the Graduate College, and ordinarily involves repetition of the comprehensive examinations.

*Admission Requirements:* All applicants must submit the Graduate College online application. Applications are initially reviewed by a School of Accountancy doctoral committee using a portfolio approach. In addition to GMAT scores and prior academic performance, letters of recommendation and a personal statement are reviewed to ensure a good “fit” between the student’s goals and the school. A recommendation for action is then made to the associate dean in the W. P. Carey School of Business, who in turn makes a recommendation to the Graduate College. The Graduate College either admits or denies each applicant and notifies them in writing.

*Contact:*
School of Accountancy
http://wpcarey.asu.edu/acc/doctoral.cfm
wpcareyacc@asu.edu
BA 223Q
480/965-3631
Official Degree Awarded: MS Agribusiness

Program Description: The Morrison School of Management and Agribusiness at the Polytechnic campus, offers the M.S. in agribusiness. In general, this degree is designed to prepare students from a variety of backgrounds with a set of critical and analytical business skills, while recognizing the unique demands of the agribusiness and resource management sectors. Graduates are well prepared for successful administrative or managerial careers with either government or private-sector organizations in either field.

Students are able to select either a research-oriented program, which leads to the completion of a supervised thesis, or a program consisting of course work only (nonthesis option). The nonthesis option allows students to develop an area of specialization and apply these skills to a real-world agribusiness problem through an integrative, capstone course experience. Both the thesis and nonthesis options require the completion of a common set of core courses. These options also apply to the concentrations in 1) agribusiness management and marketing, and 2) food quality assurance.

Program Requirement: All M.S. candidates must complete a minimum of 36 hours of approved graduate-level course work, excluding courses taken to address deficiencies. Of these 36 hours, 21 must be taken to satisfy core requirements. Thesis students fulfill the remaining 15 credit hours by taking three research credits, six thesis credits and six hours of electives. Nonthesis students fulfill the remaining hours by taking 15 hours of electives.

It is suggested that students take a coherent sequence of courses such as those indicated below, but considerable flexibility is possible based on individual backgrounds and interests.

Thesis and Nonthesis M.S. in Agribusiness

Semester I
AGB 528 Advanced Agribusiness Marketing (3)
AGB 560 Advanced Agribusiness Management Systems (3)
AGB 561 Agribusiness Research Methods (3)

Semester II
AGB 511 Advanced Agribusiness Management (3)
AGB 532 Advanced Agribusiness Finance (3)
AGB 570 Managerial Economics for Agribusiness (3)
Semester III
AGB 589 Agribusiness Capstone (3)
500-level AGB emphasis electives (6)

Semester IV
Nonthesis Option
500-level AGB emphasis or other electives (9)

Thesis Option
AGB 592 Research (3)
AGB 599 Thesis (6)

Admission Requirements:

1. Applicants to the program are expected to meet the minimum requirements for admission to the Graduate College.
2. Scores from the GRE, Miller Analogies Test or GMAT are required.
3. Applications must include a curriculum vitae and statement of purpose. The statement of purpose must offer evidence of the applicant’s basic skills in economics, accounting, statistics and computer use, as well as some experience or knowledge in an area related to agribusiness.
4. Letters of recommendation are suggested.

Applicants not meeting this last requirement may be considered for admission with deficiencies. The application deadline for admission in the fall semester is Feb. 1.

The Morrison School of Management and Agribusiness awards assistantships to selected candidates. These support ongoing research and teaching activities. The awards are made on the basis of availability and according to the needs of the faculty and interests of the students. Scholarships are also available on a competitive basis for qualified candidates.

Contact:
Morrison School of Management and Agribusiness
http://www.poly.asu.edu/msma
morrisonsem@asu.edu
PRLTA 330X
480/727-1312

Economics (PhD) BAECONPHD
W.P. Carey School of Business

Official Degree Awarded: PHD Economics

Program Description: The Ph.D. program in economics is a full-time program intended to prepare students for teaching and research positions at four-year institutions of higher education, and research positions in public agencies or private business organizations. The Ph.D. program is relatively small in size, with about 40
doctrinal students in residence at any time. The low student-faculty ratio allows us to provide greater faculty attention and mentoring compared to larger programs. Students are involved in teaching, research and seminar activities, becoming valued members of the department. Most of our Ph.D. students are supported through teaching and research assistantships for four years. Stipends are highly competitive with any graduate program in the country.

Program Requirement: In addition to completing 60 credit hours beyond the bachelor's degree (30 credit hours beyond the master's degree) and 24 credit hours of research and dissertation for a minimum of 84 credit hours, the Ph.D. student must accomplish five tasks:

1. Meet the qualification requirement.
2. Present at least two fields of study.
3. Pass the comprehensive examination.

See the Department of Economics graduate student handbook for details concerning these tasks.

Admission Requirements: All applicants to the Ph.D. program in economics must have a bachelor's degree or the equivalent. Each applicant must submit an application form, fee and other materials to the ASU Graduate College; an application packet and list of guidelines are available from the Graduate College. The Department of Economics requires applicants to send scores from the aptitude portion of the GRE. Applications will not be reviewed until the GRE score is received. Applicants whose first language is not English must also submit a Test of English as a Foreign Language (TOEFL) score, unless he/she received a degree from a U.S. college or university.

In addition, all applicants are required to submit three letters of reference to the Ph.D. program director in the Department of Economics. Our admissions policy weighs several factors including letters of reference, overall GPA, GRE scores and performance in selected mathematics and economics courses. We have no absolute standards for any of the factors, but performance on each clearly should suggest academic potential that is far above those of the normal undergraduate student. Application deadline for fall admission is Jan. 15.

Contact:
Department of Economics
http://wpcarey.asu.edu/grad/phd/phd_economics.cfm
wpcareyecn@asu.edu
BAC 659
4809653531
**Finance (PhD) BAFINANPHD**

W.P. Carey School of Business

**Official Degree Awarded:** PHD Business Administration (Finance)

**Program Description:** The primary objective of the Ph.D. program in finance is to train students for careers as professors of finance at major research universities. The program provides a challenging course of study in the most recent developments in both the theoretical and empirical aspects of financial economics. This course of study, along with work in economics and statistics, serves as preparation for understanding and critical analysis of current issues in finance.

**Program Requirement:**

**Program of Study**

A minimum of 84 credit hours is required for the PhD degree; 12 (and only 12) of these hours must be 799 Dissertation. Of the 84 credit hours, at least 30 hours (which may include research credit) of the approved Ph.D. program and 12 dissertation hours must be completed after admission to the student’s Ph.D. program. Students may not apply credit hours earned for a doctoral degree previously awarded at ASU or another institution toward their current ASU doctoral degree. However, at the individual academic unit’s discretion, students may apply up to 30 relevant credit hours from a previously awarded master’s degree toward their doctoral program of study.

**Comprehensive Examinations**

Upon completion of all necessary course work on a student’s approved program of study, the academic unit may initiate the scheduling and administering of a student’s comprehensive examination. The comprehensive examination consists of a minimum of a written exam; at the discretion of the academic unit, an oral exam may also be required.

**Candidacy**

Ph.D. students achieve candidacy status in a letter from the dean of the Graduate College upon:

1. Passing the comprehensive examinations.
2. Successfully defending the dissertation prospectus.

**Dissertation Requirements**

Students are required to present a dissertation to satisfy the research requirement for the Ph.D. degree. The dissertation is defended in an oral examination commonly known as the dissertation defense.
Students must be enrolled for at least one credit hour that appears on the program of study or one hour of appropriate graduate-level credit (such as 795 Continuing Registration) during the semester (including summer session) in which the student defends the dissertation.

Note: For detailed information regarding the university's doctoral degree requirements, please refer to the Graduate College's Doctor of Philosophy policy and procedures at http://graduate.asu.edu/academic_policies/doctoral.html.

**Maximum Time Limit**

Doctoral students must complete all program requirements within a 10-year period. The 10-year period starts with the initial enrollment into the doctoral program. In addition, the student must take the final oral examination in defense of the dissertation within five years after passing the comprehensive examinations. Any exception must be approved by the supervisory committee and the dean of the Graduate College, and ordinarily involves repetition of the comprehensive examinations.

*Admission Requirements*: Admission to the Ph.D. in business administration with a concentration in finance is granted to applicants who present convincing evidence of high-order analytical skills, intellectual curiosity, and the ability to work independently in pursuing scholarly research. Applicants should possess the intellectual curiosity and discipline required for original inquiry. In addition to the general requirements of the Graduate College, applicants must submit three academic letters of recommendation, scores from the GMAT or GRE, and a brief statement of their career objectives. In addition, applicants should also submit a resume. While many accepted students have an M.B.A. or M.S. in a business-related field, others have a background in other areas, such as engineering, economics, mathematics, physics or political science. See http://graduate.asu.edu/admissions/index.html and http://graduate.asu.edu/admissions/checklist.html.

*Contact:*
Department of Finance
http://wpcarey.asu.edu/fin
wpcareyfin@asu.edu
BA 519
480/965-3131

**Information Management (MS) BAINFOMS**
W.P. Carey School of Business

*Official Degree Awarded*: MS Information Management
Program Description: The M.S.I.M. is a one-year, evening degree program designed for working professionals. The W. P. Carey School of Business understands the importance of teaching strong business management and technological skills. The M.S.I.M. program will prepare students to manage in an information technology (IT) environment. Students will also learn the business skills needed to leverage IT to gain a competitive advantage in the global economy.

Program Requirement: The M.S.I.M. is a one-year program requiring a minimum of 30 credit hours with an intensive state-of-the-art curriculum. Please access the department’s Web site for a list of courses. This lock-step program consists of 10 courses that begin in June and end in May, including an applied project. The M.S.I.M. program offers evening classes that meet twice a week, and are customized for full-time working professionals.

Admission Requirements: Minimum requirements for admission to the M.S.I.M. program are having:

1. Two years of full-time related work experience.
2. An undergraduate degree in a related field from an accredited university.
3. Completed prerequisite college-level courses or equivalent experience in statistics, brief calculus and a programming language.

All applicants are required to submit the Graduate College online application and the supplemental application materials required by the department. Complete application instructions, including GMAT requirements, may be obtained from the department’s Web site. International applicants, whose native language is not English, must submit scores from the Test of English as a Foreign Language (TOEFL).

Contact:
Department of Information Systems
http://www.wpcarey.asu.edu/is/msim
wpcareymsim@asu.edu
BA 301P
480/965-3252

Marketing (PhD) BAMARKPHD
W.P. Carey School of Business

Official Degree Awarded: PHD Business Administration (Marketing)

Program Description: The Ph.D. program is for those students who want to become full-time professors at research-oriented universities. It is not intended for people who want to work in industry positions. It is a full-time program only, and students take all of their courses on-campus.

All students complete a core curriculum, yet tailor their work to achieve personal goals. For those who already hold a master’s degree, our program is designed to be
completed in four years. For those who hold a bachelor's degree, the program is
designed to be completed in five years.

Program Requirement:

Program of Study

A minimum of 84 credit hours is required for the PhD degree; 12 (and only 12) of
these hours must be 799 Dissertation. Of the 84 credit hours, at least 30 hours
(which may include research credit) of the approved Ph.D. program and 12
dissertation hours must be completed after admission to the student's Ph.D.
program. Students may not apply credit hours earned for a doctoral degree
previously awarded at ASU or another institution toward their current ASU doctoral
degree. However, at the individual academic unit's discretion, students may apply
up to 30 credit hours from a previously awarded master's degree toward their
doctoral program of study.

Comprehensive Examinations

Upon completion of all necessary course work on a student's approved program of
study, the academic unit may initiate the scheduling and administering of a
student's comprehensive examinations. The comprehensive examination consists of
a minimum of a written exam; at the discretion of the academic unit, an oral exam
may also be required.

Candidacy

Ph.D. students achieve candidacy status in a letter from the dean of the Graduate
College upon:

1. Passing the comprehensive examinations.
2. Successfully defending the dissertation prospectus.

Dissertation Requirements

Students are required to present a dissertation to satisfy the research requirement
for the Ph.D. degree. The dissertation is defended in an oral examination commonly
known as the dissertation defense.

Students must be enrolled for at least one credit hour that appears on the program
of study or one hour of appropriate graduate-level credit (such as 795 Continuing
Registration) during the semester (including summer session) in which the student
defends the dissertation.

Note: For detailed information regarding the university's doctoral degree
requirements, please refer to the Graduate College’s Doctor of Philosophy policy and
procedures.
**Maximum Time Limit**

Doctoral students must complete all program requirements within a 10-year period. The 10-year period starts with the initial enrollment into the doctoral program. In addition, the student must take the final oral examination in defense of the dissertation within five years after passing the comprehensive examinations. Any exception must be approved by the supervisory committee and the dean of the Graduate College, and ordinarily involves repetition of the comprehensive examinations.

**Admission Requirements:** All applicants must submit the Graduate College’s online application. Applications are initially reviewed by a faculty committee using a portfolio approach. In addition to GMAT scores and prior academic performance, letters of recommendation and a personal statement are reviewed to ensure a good "fit" between the student’s goals and the department. A recommendation for action is then made to the Graduate College. The Graduate College either admits or denies each applicant and notifies them in writing.

**Contact:**
Business Administration
http://www.wpcarey.asu.edu/mkt
wpcareymkt@asu.edu
BAC 460
480/965-3621

**Statistics (Grad Certificate) GCSTATCE**

**Official Degree Awarded:** CERT Statistics (certificate)

**Program Description:** The committee on statistics offers a program leading to the certificate in statistics. The program is interdisciplinary in that it draws upon faculty research and teaching interests from various academic units so that programs of study can be tailored to reflect individual needs and goals. The committee, which sets program requirements and supervises programs of study, is composed of faculty from departments in the Ira A. Fulton School of Engineering, the College of Liberal Arts and Sciences, the W. P. Carey School of Business and the New College of Interdisciplinary Arts and Sciences.

The certificate seeks to provide statistical training for graduate students at ASU and professionals in the metro Phoenix area. It is administered by the committee on statistics, which also administers the M.S. in statistics through the Graduate College.

**Program Requirement:** The certificate program requires a minimum of 15 credit hours of course work. To qualify for the certificate, a student must complete courses in applied regression analysis (IEE 578, ECN 525, or STP 530) and analysis of variance/experimental design (IEE 572, ECN 530, or STP 531). The remaining nine credits are taken from the set of courses approved by the committee on statistics.
The certificate program requires no applied project. A maximum of nine hours from the approved list of certificate courses can be transferred to the M.S. in statistics. Students must have a GPA of at least 3.00 in the courses which apply to the certificate.

Certificate students interested in industrial statistics may choose to emphasize this area of study. The certificate in statistics with emphasis in industrial statistics and six sigma methodology requires the following courses:

1. Applied regression analysis (IEE 578, ECN 525, or STP 530).
2. IEE 572 Design of Experiments.
3. IEE 570 Advanced Quality Control.
4. IEE 581 Six Sigma Methodology.
5. IEE 585 Six Sigma Capstone.

Course work for the certificate in statistics with emphasis in industrial statistics may be applied to the six sigma black belt certification program offered by the Center for Professional Development.

Admission Requirements: All applicants to the statistics certificate program must submit the Graduate College’s online application. The applicant must have a bachelor’s degree, and should have completed the following courses (equivalents at ASU are given in parentheses):

1. One semester of calculus (MAT 210 or 270 which is required for industrial statistics emphasis).
2. Introductory applied statistics (QBA 221 or STP 420).

The applicant is also required to have some computer literacy with knowledge of a programming language, a spreadsheet program or a statistical software program.

CSE 100 Computer Programming is required for the emphasis in industrial statistics.

Contact:
Interdisciplinary Statistics Program
http://graduate.asu.edu/statistics/Certificate.html
statistics@asu.edu
GWC 551
480/965-2671

Supply Chain Management (PhD) BASCMPHD
W.P. Carey School of Business

Official Degree Awarded: PHD Business Administration (Supply Chain Management)

Program Description: The objective of the Ph.D. in business administration with a concentration in supply chain management is to prepare scholars to conduct high-
quality research and to teach in the field of supply chain management.

During their course of study, students have a variety of experiences that enhance their prospects for success as faculty members at leading institutions of higher education. Students develop the capability to review, analyze, conduct and publish research through a series of research seminars and courses that supplement and complement each student’s background, abilities and aspirations. The Ph.D. in business administration with a concentration in supply chain management is a full-time, residential program.

**Program Requirement:**

**Program of Study**

A minimum of 84 credit hours is required for the PhD degree; 12 (and only 12) of these hours must be 799 Dissertation. Of the 84 credit hours, at least 30 hours (which may include research credit) of the approved Ph.D. program and 12 dissertation hours must be completed after admission to the student’s PhD program. Students may not apply credit hours earned for a doctoral degree previously awarded at ASU or another institution toward their current ASU doctoral degree. However, at the individual academic unit's discretion, students may apply up to 30 credit hours from a previously awarded master's degree toward their doctoral program of study.

Students work with their study committees to determine an appropriate program of study. Common areas of functional specialization among doctoral studies include financial and managerial accounting, auditing, information systems and taxation. With these functional areas, doctoral studies may emphasize experimental or archival research methods. All accountancy doctoral students are required to take a three-semester sequence of accountancy doctoral course work. A maximum of six approved graduate credit hours can be transferred to satisfy program requirements.

**Comprehensive Examinations**

Upon completion of all necessary course work on a student's approved program of study, the academic unit may initiate the scheduling and administering of a student’s comprehensive examinations. The comprehensive examination consists of a minimum of a written exam; at the discretion of the academic unit, an oral exam may also be required.

**Candidacy**

Ph.D. students achieve candidacy status in a letter from the dean of the Graduate College upon:

1. Passing the comprehensive examinations.
2. Successfully defending the dissertation prospectus.

**Dissertation Requirements**

Students are required to present a dissertation to satisfy the research requirement for the Ph.D. degree. The dissertation is defended in an oral examination commonly known as the dissertation defense.

Students must be enrolled for at least one credit hour that appears on the program of study or one hour of appropriate graduate-level credit (such as 795 Continuing Registration) during the semester (including summer session) in which the student defends the dissertation.

Note: For detailed information regarding the university's doctoral degree requirements, please refer to the Graduate College’s Doctor of Philosophy policy and procedures.

**Maximum Time Limit**

Doctoral students must complete all program requirements within a 10-year period. The 10-year period starts with the initial enrollment into the doctoral program. In addition, the student must take the final oral examination in defense of the dissertation within five years after passing the comprehensive examinations. Any exception must be approved by the supervisory committee and the dean of the Graduate College, and ordinarily involves repetition of the comprehensive examinations.

*Admission Requirements*:

All applicants must submit the Graduate College online application. Applications are initially reviewed by a faculty committee using a portfolio approach. In addition to GMAT scores and prior academic performance, letters of recommendation and a personal statement are reviewed to ensure a good "fit" between the student's goals and the department. A recommendation for action is then made to the associate dean in the W. P. Carey School of Business who in turn makes a recommendation to the Graduate College. The Graduate College either admits or denies each applicant and notifies them in writing.

*Contact:*

Business Administration  
http://wpcarey.asu.edu/scm  
wpcarey.scm@asu.edu  
BA 446  
480/965-6044

Taxation (MTax) BATAMTAX  
W.P. Carey School of Business

*Official Degree Awarded: MTax Taxation*
**Program Description:** The faculty in the School of Accountancy offer a specialized professional program leading to the M.Tax. The M.Tax. is a specialized degree program designed to equip students with the highly technical and demanding skills required to provide tax and business advice in the private sector and to administer tax laws in the public sector of the economy. The program prepares students for positions in taxation and provides graduate-level education for tax professionals who desire to enhance their skills.

**Program Requirement:** The M.Tax. program is offered as a cohort-based, part-time program and a cohort-based, full-time program. The part-time program consists of 30 credit hours over the course of two years, and the full-time program consists of 30 credit hours and may be completed in one academic year. Both programs are offered in the evening.

**Admission Requirements:** All applicants are required to submit an application to the Graduate College online. Complete application instructions may be obtained from the school's Web site. Students applying to this program must submit scores from the GMAT. International applicants whose native language is not English must submit scores from the Test of English as a Foreign Language (TOEFL) exam. Preference in admission is given to those with degrees in accounting and business, although other exceptional candidates are considered.

**Contact:**
School of Accountancy
http://wpcarey.asu.edu/acc/mtax.cfm
wpcareyacc@asu.edu
BA 223Q
480/965-3631

**W. P. Carey MBA - Custom Corporate Program**

**BACORP MBA**

**W.P. Carey School of Business**

**Official Degree Awarded:** MBA W. P. Carey MBA

**Program Description:** The Custom Corporate M.B.A. Program is designed for participants from a single company. Participants are nominated to attend the program by their company, and receive a solid, core curriculum with optional specializations. The Custom Corporate M.B.A. Program offers flexible part-time delivery modes, using online, on-ground and blended courses. Possible features that can be incorporated into the custom programs are: company-specific applied projects, guest teaching from corporate leaders and intensive residential sessions.

**Program Requirement:** The Custom Corporate M.B.A. Program requires that participants be nominated into the program by the sponsoring company. Students must complete a minimum of 48 credit hours which includes the capstone course, MGT 589.
**Admission Requirements:** Participants must apply to ASU, meet Graduate College admission requirements and the guidelines established by the Custom Corporate M.B.A. Program.

**Contact:**
MBA Programs
http://wpcarey.asu.edu/mba/custom-corporate/index.cfm
wpcarey.execed@asu.edu
480/965-7579

**W. P. Carey MBA - Evening Accelerated Program BAEVEAMBA**
W.P. Carey School of Business

**Official Degree Awarded:** MBA W. P. Carey MBA

**Program Description:** The purpose of the program is to build knowledge and analytic capabilities in the functional areas of business and to develop interpersonal and leadership skills. Essential skills include computing, writing and critical thinking, presentation and speaking, team and group work, interpersonal relations and time management. There is a strong team emphasis throughout the curriculum.

The M.B.A. program is supported by each of the eight academic units within the W. P. Carey School of Business. Curriculum information can be found online at http://wpcarey.asu.edu/mba/current_students/.

**Program Requirement:** While there are no business course prerequisites, applicants must have computer proficiency and expertise in using spreadsheet, word processing, e-mail and presentation software and an Internet browser. Potential students must also demonstrate strong quantitative ability, and effective written and oral communication skills.

At least 48 credit hours are required to complete the evening accelerated program. The core courses are designed to provide a foundation in business knowledge, and skills and must be taken in the prescribed sequence. Elective, specialization or technical certificate courses build upon the business core and focus on the further development of an area of study. There may be additional requirements that vary by area of study. The program is typically completed in less than two years.

The business school does not accept graduate credits earned while students are in nondegree status and/or courses taken prior to admission to the M.B.A. program. Registration in school of business courses numbered 501 and above is limited to students who have been admitted to a graduate degree program, have the approval of the M.B.A. program office and have the prerequisites of calculus and computer literacy.

**Foreign Language Requirements**
None.

**Thesis Requirements**

None.

**Comprehensive Examination**

All students must successfully complete the comprehensive requirement established by the school of business and Graduate College for the M.B.A. The comprehensive culminating experience is integrated with MGT 589 Strategic Management. Students passing this course with a grade of “B” (3.00) or higher satisfy the comprehensive examination requirement.

**Concurrent Degree Programs**

For more information, see [http://graduate.asu.edu/dualdegree.html](http://graduate.asu.edu/dualdegree.html).

**Admission Requirements**: All applicants must submit the Graduate College online application. All students applying to the Evening Accelerated M.B.A. Program are required to take the GMAT. The Test of English as a Foreign Language (TOEFL) is required of all international applicants whose native language is not English, or who are not graduates of an institution located in the United States. The Test of Spoken English is not required for admission to this M.B.A. program. For more information on GMAT, see [http://www.mba.com](http://www.mba.com); for more information on TOEFL and TSE, see [http://www.ets.org](http://www.ets.org).

Students applying to the Evening Accelerated M.B.A. Program should have at least two years of full-time work experience by the date of enrollment. Applicants should submit three essays for the degree program addressing commitment, career goals, professional accomplishments, qualifications and reasons for interest in the program. One set of sealed, official transcripts from every college and university attended must be submitted. Applicants are to provide two letters of recommendation commenting on the student’s motivation, commitment, achievements, work experience and opportunity for success in the program. A personal interview may also be required.

**Contact:**
MBA Programs
http://www.wpcarey.asu.edu/mba
wpcarey MBA@asu.edu
BA 160
480/965-3332

_W. P. Carey MBA - Evening Program BAEVENMBA_
W.P. Carey School of Business
Official Degree Awarded: MBA W. P. Carey MBA

Program Description: The purpose of the program is to build knowledge and analytic capabilities in the functional areas of business and to develop interpersonal and leadership skills. Essential skills include computing, writing and critical thinking, presentation and speaking, team and group work, interpersonal relations and time management. There is a strong team emphasis throughout the curriculum.

The M.B.A. program is supported by each of the eight academic units within the W. P. Carey School of Business. Curriculum information can be found online at http://wpcarey.asu.edu/mba/current_students/.

Program Requirement: While there are no business course prerequisites, applicants must have computer proficiency and expertise in using spreadsheet, a word processing and presentation software, e-mail and an Internet browser. Potential students must also demonstrate strong quantitative ability, and effective written and oral communication skills.

At least 48 credit hours are required to complete the evening program. The core courses are designed to provide a foundation in business knowledge and skills and must be taken in the prescribed sequence. Elective, specialization or technical certificate courses build upon the business core and focus on the further development of an area of study. There may be additional requirements that vary by area of study. The program is typically completed in less than two years. Both fall and spring start dates may be available, depending on program.

The business school does not accept graduate credits earned while students are in nondegree status and/or courses taken prior to admission to the M.B.A. program. Registration in school of business courses numbered 501 and above is limited to students who have been admitted to a graduate degree program, have the approval of the M.B.A. program office, and have the prerequisites of calculus and computer literacy.

Foreign Language Requirements

None.

Thesis Requirements

None.

Comprehensive Examination

All students must successfully complete the comprehensive requirement established by the school of business and Graduate College for the M.B.A. degree. The comprehensive culminating experience is integrated with MGT 589 Strategic
Management. Students passing this course with a grade of "B" (3.00) or higher satisfy the comprehensive examination requirement.

**Concurrent Degree Programs**

For more information, see http://graduate.asu.edu/dualdegree.html.

*Admission Requirements:* All applicants must submit the Graduate College online application. All students applying to the Evening M.B.A. Program are required to take the GMAT. The Test of English as a Foreign Language (TOEFL) is required of all international applicants whose native language is not English, or who are not graduates of an institution located in the United States. The TSE is not required for admission to this M.B.A. program. However, it may be required for a dual degree program. For more information on GMAT, see http://www.mba.com; for more information on TOEFL and TSE, see http://www.ets.org.

Students applying to the Evening M.B.A. Program should have at least two years of full-time work experience by the date of enrollment. Applicants should submit three essays for the degree program addressing commitment, career goals, professional accomplishments, qualifications and reasons for interest in the program. One set of sealed, official transcripts from every college and university attended must be submitted. Applicants are to provide two letters of recommendation commenting on the student’s motivation, commitment, achievements, work experience and opportunity for success in the program. A personal interview may also be required.

*Contact:*

MBA Programs
http://www.wpcarey.asu.edu/mba
wpcareymba@asu.edu
BA 160
480/965-3332

**W. P. Carey MBA - Executive Program BAEXECMBA**

W.P. Carey School of Business

*Official Degree Awarded:* MBA W. P. Carey MBA

*Program Description:* The purpose of the program is to build knowledge and analytic capabilities in the functional areas of business and to develop interpersonal and leadership skills. Essential skills include computing, writing and critical thinking, presentation and speaking, team and group work, interpersonal relations and time management. There is a strong team emphasis throughout the curriculum.

The M.B.A. program is supported by each of the eight academic units within the W. P. Carey School of Business. Curriculum information can be found online at http://wpcarey.asu.edu/mba/current_students/.
Program Requirement: While there are no business course prerequisites, applicants must have computer proficiency and expertise in using spreadsheet, word processing and presentation software, e-mail and an Internet browser. Potential students must also demonstrate strong quantitative ability, and effective written and oral communication skills.

At least 48 credit hours are required to complete the executive program. The core courses are designed to provide a foundation in business knowledge and skills, and must be taken in the prescribed sequence. Elective, specialization, or technical certificate courses build upon the business core and focus on the further development of an area of study. There may be additional requirements that vary by area of study. The program is typically completed in less than two years. Both fall and spring start dates may be available, depending on program.

The business school does not accept graduate credits earned while students are in nondegree status and/or courses taken prior to admission to the M.B.A. program. Registration in school of business courses numbered 501 and above is limited to students who have been admitted to a graduate degree program, have the approval of the M.B.A. program office, and have the prerequisites of calculus and computer literacy.

Foreign Language Requirements

None.

Thesis Requirements

None.

Comprehensive Examination

All students must successfully complete the comprehensive requirement established by the school of business and Graduate College for the M.B.A. degree. The comprehensive culminating experience is integrated with MGT 589 Strategic Management. Students passing this course with a grade of “B” (3.00) or higher satisfy the comprehensive examination requirement.

Concurrent Degree Programs

For more information, see http://graduate.asu.edu/dualdegree.html.

Admission Requirements: All applicants must submit the Graduate College online application. Applicants applying to the Executive M.B.A. Program should have significant work experience managing projects, people and budgets.

The Test of English as a Foreign Language (TOEFL) is required of all international
applicants whose native language is not English or who are not graduates of an institution located in the United States. The Test of Spoken English is not required for admission to the Executive M.B.A. Program. For more information on TOEFL, see http://www.ets.org.

Applicants should submit three essays for the degree program addressing commitment, goals, qualifications, professional accomplishments and reasons for interest in the program. Applicants are to provide two letters of recommendation commenting on the student's motivation, commitment, achievements, work experience and opportunity for success in the program. In addition, one set of sealed, official transcripts from every college and university attended must be submitted. A personal interview is also required.

Contact:
MBA Programs
http://www.wpcarey.asu.edu/mba/exe
wpcareyamba@asu.edu
BA 160
480/965-3332

W. P. Carey MBA - Full-Time Program BAFULLMBA
W.P. Carey School of Business

Official Degree Awarded: MBA W. P. Carey MBA

Program Description: The purpose of the program is to build knowledge and analytic capabilities in the functional areas of business and to develop interpersonal and leadership skills. Essential skills include computing, writing and critical thinking, presentation and speaking, team and group work, interpersonal relations and time management. There is a strong team emphasis throughout the ASU curriculum.

The M.B.A. program is supported by each of the eight academic units within the W. P. Carey School of Business. Curriculum information can be found online at http://wpcarey.asu.edu/mba/current_students/.

Program Requirement: While there are no business course prerequisites, applicants must have computer proficiency and expertise in using spreadsheet, word processing and presentation software package, e-mail and an Internet browser. Potential students must also demonstrate strong quantitative ability, as well as effective written and oral communication skills.

At least 48 credit hours are required to complete the full-time program. The core courses are designed to provide a foundation in business knowledge and skills, and must be taken in the prescribed sequence. Elective, specialization or technical certificate courses build upon the business core and focus on the further development of an area of study. There may be additional requirements that vary by area of study. The program is typically completed in less than two years.
The business school does not accept graduate credits earned while students are in nondegree status and/or courses taken prior to admission to the M.B.A. program. Registration in school of business courses numbered 501 and above is limited to students who have been admitted to a graduate degree program, have the approval of the M.B.A. program office, and have the prerequisites of calculus and computer literacy.

**Foreign Language Requirements**

None.

**Thesis Requirements**

None.

**Comprehensive Examination**

All students must successfully complete the comprehensive requirement established by the school of business and Graduate College for the M.B.A. degree. The comprehensive culminating experience is integrated with MGT 589 Strategic Management. Students passing this course with a grade of “B” (3.00) or higher satisfy the comprehensive examination requirement.

**Concurrent Degree Programs**

For more information, see http://graduate.asu.edu/dualdegree.html.

**Admission Requirements:** All applicants must submit the Graduate College online application. All students applying to the Full-time M.B.A. Program are required to take the GMAT. The Test of English as a Foreign Language (TOEFL) is required of all international applicants whose native language is not English, or who are not graduates of an institution located in the United States. The Test of Spoke English is not required for admission to the M.B.A. program. However, it may be required for a dual degree program or a graduate assistantship. For more information on GMAT, see http://www.mba.com; for more information on TOEFL and TSE, see http://www.ets.org.

Students applying to the Full-time MBA Program should have at least two years of full-time work experience by the date of enrollment. Applicants should submit three essays for the degree program addressing commitment, career goals, professional accomplishments, qualifications and reasons for interest in the program. One set of sealed, official transcripts from every college and university attended must be submitted. Applicants are to provide two letters of recommendation commenting on the student's motivation, commitment, achievements, work experience and
opportunity for success in the program. A personal interview is required by invitation only.

Contact:
MBA Programs
http://www.wpcarey.asu.edu/mba
wpcareymba@asu.edu
BA 160
480/965-3332

W. P. Carey MBA - Online Program BAONLINMBA
W.P. Carey School of Business

Official Degree Awarded: MBA W. P. Carey MBA

Program Description: The purpose of the program is to build knowledge and analytic capabilities in the functional areas of business and to develop interpersonal and leadership skills. Essential skills include computing, writing and critical thinking, presentation, team and group work, interpersonal relations and time management. There is a strong team emphasis throughout the curriculum.

The M.B.A. program is supported by each of the eight academic units within the W. P. Carey School of Business. Curriculum information can be found online at http://wpcarey.asu.edu/mba/online/academics/curriculum.cfm.

Program Requirement: At least 48 credit hours are required to complete the Online M.B.A. Program. The core courses are designed to provide a foundation in business knowledge and skills and must be taken in the prescribed sequence. The program is typically completed in less than two years. Both fall (July) and spring (January) start dates are available.

The school of business does not accept graduate credits earned while students are in nondegree status and/or courses taken prior to admission to the M.B.A. program. Registration in school of business courses numbered 501 and above is limited to students who have been admitted to a graduate degree program, have the approval of the M.B.A. program office, and have the prerequisites of calculus and computer literacy.

Foreign Language Requirements

None.

Thesis Requirements

None.

Comprehensive Examination
All students must successfully complete the comprehensive requirement established by the school of business and Graduate College for the M.B.A. degree. The comprehensive culminating experience is integrated with MGT 589 Strategic Management. Students passing this course with a grade of “B” (3.00) or higher satisfy the comprehensive examination requirement.

**Concurrent Degree Programs**

For more information, see [http://graduate.asu.edu/dualdegree.html](http://graduate.asu.edu/dualdegree.html) or [http://wpcarey.asu.edu/mba/online/academics/dual-degrees.cfm](http://wpcarey.asu.edu/mba/online/academics/dual-degrees.cfm).

**Admission Requirements:** All applicants must submit the Graduate College online application. While there are no business course prerequisites, applicants must have computer proficiency and expertise in using spreadsheet, word processing and presentation software package, e-mail and an Internet browser. Potential students must also demonstrate strong quantitative ability, and effective written and oral communication skills.

All students applying to the Online M.B.A. Program are required to take the GMAT. The Test of English as a Foreign Language (TOEFL) is required of all international applicants whose native language is not English, or who are not graduates of an institution located in the United States. The Test of Spoke English is not required for admission to the Online M.B.A. Program. For more information on GMAT, see [http://www.mba.com](http://www.mba.com); for more information on TOEFL and TSE, see [http://www.ets.org](http://www.ets.org).

Students applying to the W. P. Carey Online M.B.A. Program should have at least two years of full-time work experience from the date of enrollment. Applicants should submit three essays for the degree program addressing commitment, career goals, professional accomplishments, qualifications and reasons for interest in the program. One set of sealed, official transcripts from every college and university attended must be submitted. Applicants are to provide two letters of recommendation commenting on the student’s motivation, commitment, achievements, work experience and opportunity for success in the program. A personal interview may also be required.

**Contact:**
MBA Programs
http://www.wpcarey.asu.edu/mba/online
wpcareymba@asu.edu
BA 160
480/965-3332

**W. P. Carey MBA - Shanghai Program BASHANGMBA**
W.P. Carey School of Business
Official Degree Awarded: MBA W. P. Carey MBA

Program Description: The W. P. Carey School of Business at Arizona State University is directly involved in the development of top leadership in China. In 2003, we launched an Executive M.B.A. program in Shanghai, China. The program is delivered in collaboration with Shanghai National Accounting Institute, an entity founded by China's formal Premier, Mr. Zhu Rongji, and is under the governance of China's Ministry of Finance.

The business leaders emerging from this program will shape U.S.-Sino trade relationships during China's continued global expansion. These academic programs are just the cornerstone of a number of new offerings that include knowledge transfer and access to the highest level of decision makers in China.

The hallmarks of prestigious programs include two key elements: the faculty and the students. No other M.B.A. program offers a more impressive list of faculty or students than that in the W. P. Carey China Program. The faculty includes some of the world's most influential thinkers. Internationally renowned faculty from the W. P. Carey School of business lead scholars from other major American business schools. The students are equally impressive, in that many of those enrolled in the program are senior executive leaders of the largest state-owned enterprises in China. For more information, please go to our Web site: http://www.wpcarey.asu.edu/mba/china/index.cfm.

Program Requirement: The curriculum, consisting of 12 courses for a total of 48 credit hours, it is based on the integration of core management principle with an immersion on accounting, finance, supply chain management, service marketing, customer relation management and management of services innovation. At the core of the curriculum delivery is the emphasis on the practical applications with direct business connectivity. The curriculum also prides itself on its integration of global practices and local market characterizations so as to enable participants’ ability to excel in the modern economy.

In addition, the curriculum is designed with a strong interdisciplinary focus, while achieving cycle-time efficiency. Each course will be delivered in an intensive manner over two consecutive weekends, with four full days of face-to-face instruction supplemented by online instruction materials to enable learning interactions between faculty and participants.

All students must successfully complete the comprehensive requirement established by the school of business and Graduate College for the M.B.A. The comprehensive culminating experience is integrated with MGT 589 Strategic Management. Students passing this course with a grade of "B" (3.00) or higher satisfy the comprehensive examination requirement. A thesis is not required.

Admission Requirements: All applicants are required to contact the program coordinator before submitting the Graduate College online application.
Design and the Arts, Herberger Institute

Architecture (MArch) ARARCMARCH
Herberger Institute for Design and the Arts

Official Degree Awarded: MArch Architecture

Program Description: The Master of Architecture is an accredited professional degree program at ASU. There are two programs of study available:

- A two-year program for applicants who have completed the four-year B.S.D. in architectural studies at ASU or an equivalent degree from another school that offers an accredited professional degree in architecture.
- A three-plus-year program for applicants with an undergraduate degree in a discipline or field other than architecture.

Both programs promote broad areas of knowledge, professional skill and a social awareness that the architect must command if architecture is to enhance contemporary life and remain an enduring and valid expression of society.

Program Requirement:

Requirements for the Two-Year Program

The two-year graduate program requires a minimum of 56 credit hours of approved courses and electives and a comprehensive examination. For most students, this program involves an average of 14 credit hours per semester. A summer internship is required after the first full year of study.

Students who can adequately demonstrate competence through experience or previous academic course work for any of the specific requirements outlined below are encouraged to petition the graduate coordinator for a course substitution.

Typical Program of Study

First Year

Fall
ADE 521 Advanced Architectural Studio I (5)
ATE 553 Building Systems III (3)
ATE 563 Building Structures III (3)
ATE 598 Sustainability of the Built Environment (3)

Spring

ADE 522 Advanced Architectural Studio II (5)
L/APH 505 Foundation Theory Seminar (3)
ATE 556 Building Development (3)
Herberger Institute professional design elective* (3)

Summer

ARP 584 Clinical Internship (3)

Second Year

ADE 621 Advanced Architectural Studio III (5)
AAD 515 Current Issues and Topics (3)
Herberger Institute professional design elective* (3)
ADE 622 Advanced Architectural Studio IV (5)
L/AAD 652 Architectural Management II (3)
Herberger Institute professional design elective* (3)
Approved elective** (3)

* The list of Herberger Institute design electives can be found on the Herberger Institute for Design and the Arts Web site.

** Elective can be taken outside the college with graduate coordinator approval.

Requirements for the Three-Plus-Year Program

The three-plus-year graduate program requires a minimum of 78 credit hours of graduate-level course work and 24 credit hours of deficiency course work, which make up the total number of 102 credit hours of approved courses and electives, and a comprehensive examination. For most students, this program involves 15 credit hours in the first summer and 14 to 15 credit hours in each of the subsequent six semesters. A summer internship is required after the second full year of study.

Students who can adequately demonstrate previous academic course work for any of the deficiencies are encouraged to petition the graduate coordinator for a course substitution.

Typical Program of Study

Note: Bolded courses are considered deficiencies and do not count toward official program of study.

First Year
Summer

ADE 510 Foundation Architectural Studio (6)
ALA 102 Architecture, Landscape Architecture and Society (1st five-week session) (3)
ALA 236 Computers in Landscape Architecture (1st five-week session) (3)
APH 509 Foundation Seminar (2nd five-week session) (3)

Fall

ADE 511 Core Architectural Studio (6)
APH 313 History of Architecture I (3)
ATE 361 Building Structures I (3)
ATE 451 Building Systems I (3)

Spring

ADE 512 Core Architectural Studio (6)
APH 314 History of Architecture II (3)
ATE 452 Building Systems II (3)
ATE 462 Building Structures II (3)

After the first summer and academic year, the three-plus-year curriculum merges with the two-year curriculum and they are the same.

Admission Requirements:

Applicants to the two-year program must:

1. Submit a Graduate College online application and hold an undergraduate or graduate degree from a college or university recognized by ASU.
2. Have completed a four-year B.S. in architectural studies or similar preprofessional degree in architecture. The bachelor’s degree must be granted by an institution that offers the National Architectural Accrediting Board (NAAB) accredited degree program in architecture.
3. Meet the minimum GPA requirements as established by the Graduate College.
4. Provide an official copy of GRE scores (unofficial copies will not be accepted).
   For more information on the GRE see http://www.gre.org, or if you live near ASU, see http://www.asu.edu/uts. The School of Architecture and Landscape Architecture does not have a minimum score for admission, however, the average scores of admitted students are between 500-600 for each section.

In addition to the above requirements, international students are required to submit an official Test of English as a Foreign Language (TOEFL) score (http://www.toefl.org). The minimum score for admission to the program is 100 (Internet-based), 250 (computer-based) or 600 (paper-based). Other information
for international applicants can be found on the Graduate College Web site at http://graduate.asu.edu/admissions/international.html.

Admission to the Master of Architecture program is selective, and the Master of Architecture program does not defer admission. Students must enroll in the semester for which they are admitted, otherwise they will need to go through the entire application process again for the year in which they are applying.

Applicants may be admitted to the two-year program with deficiencies if their previous course work is not equivalent to the ASU undergraduate requirements and standards. Deficiencies must be completed prior to taking the required course(s) if necessary. Please keep in mind that this may cause the student to take longer than two years to complete the program.

A personal interview is not required; however, a candidate wishing to visit the school is welcome and should make arrangements by contacting the department.

**Additional Master of Architecture Two-Year Program Admission Requirements**

1. Applicants should write their name in a clear and consistent manner on all materials submitted, preferably in the “family name, first name” format (e.g. Smith, John).
2. Statement of Intent. A personal narrative (maximum 600 words or two pages typed) indicating the applicant’s interest, previous academic and practical background, as well as personal and professional educational objectives.
3. Letters of Recommendation. A minimum of three letters of recommendation in support of the applicant must be mailed directly to the graduate admissions committee, School of Architecture and Landscape Architecture. The references should be from professionals or educators familiar with the applicant’s experience and capability for graduate work.
4. Portfolio. Candidates applying for the two-year Master of Architecture program must also provide a portfolio. See the portfolio requirements outlined on the School of Architecture and Landscape Architecture Web site for more information.

Submit the statement of intent, recommendation letters, creative works portfolio, and the contact information sheet to the following address:

Master of Architecture Admissions Committee  
School of Architecture and Landscape Architecture  
Arizona State University  
P.O. Box 871605  
Design North, room 162  
Tempe, AZ 85287-1605
Please submit your online application and fees, test scores (GRE or TOEFL) and official transcripts from all p

Contact:
School of Architecture and Landscape Architecture
http://herbergerinstitute.asu.edu/
sala.grad@asu.edu
CDN 162D
480/965-1033

Art - Digital Technology (MFA) FADIGITMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Digital Technology)

Program Description: The M.F.A. in digital technology is offered by the School of Art in collaboration with the Arts, Media and Engineering Program (AME). It is a hybrid degree that combines technological and artistic goals, and requires students with skills and experience in both realms. Applicants will be required to demonstrate accomplishment in both art and technology, particularly in having developed new digital technology for the arts. Course work will be required in both the School of Art and AME. In this field, the School of Art offers graduate level courses in digital audio, video, photography, animation, compositing and rapid prototyping.

Program Requirement: A minimum of 60 credit hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration (with the exception of digital technology where 18 credit hours are studio classes and 18 credit hours are AME classes).
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses), except for digital technology, which requires six credit hours of art history.
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art (except for digital technology, which requires nine credit hours of electives in the School of Art and Arts Media and Engineering).
4. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition; except digital technology, where six hours will be ART 600 and six hours will be AME 593.

Admission Requirements: All applicants must submit a Graduate College application.

1. A bachelor’s degree from a college or university recognized by ASU is required. All students applying for the M.F.A. must submit to the graduate coordinator:
A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation. If appropriate, a DVD is also acceptable.

2. Three letters of recommendation.
3. A current curriculum vitae.
4. Statement of intent pertaining to the students educational objectives.

Applications for the digital technology concentration program must also include:

1. A statement and evidence of work demonstrating digital technology skills beyond end user applications.
2. An art and digital technology resume.

Contact:
School of Art
http://art.asu.edu
ART 102
480/965-6303

Art Education (MA) FAARTEDMA
Herberger Institute for Design and the Arts

Official Degree Awarded: MA Art (Art Education)

Program Description: The faculty in the School of Art offer a program with a major in art leading to the M.A. with concentrations in art education and art history. Students admitted to the M.Ed. program with a major in secondary education may also elect art as the subject matter field.

Program Requirement:

The degree program requires:

1. A minimum of 30 credit hours in art education.
2. Eighteen hours of core courses.
3. Six hours of special topics on research related to integrating the teaching of studio art, art history and criticism or aesthetics.
4. Six hours of research and thesis.

To meet the core requirements, students must take the following core courses:

ARE 510 Visual Culture Research (3)
ARE 520 Issues in Teaching Inquiry in Art (3)
ARE 525 Research on Art Instruction (3)
ARE 530 Issues in Teaching Studio Art (3)
ARE 535 Research on Teaching Studio Art (3)
ARE 540 Teaching Art in Cultural Contexts (3)
Before the end of the first semester of course work (six or more credit hours), a program of study must be submitted to the Graduate College. Additional program requirements are indicated in the M.A. in art education guidelines.

**Admission Requirements:** All applicants must submit a Graduate College online application.

An applicant must have a bachelor’s degree from a regionally accredited college or university with a major of not less than 45 credit hours of art, including 12 hours of art history and six hours of art education. Additional hours may be required by the school.

An applicant must have a GPA of at least “B” (3.00) in undergraduate course work during the junior and senior years. Applicants who do not meet these requirements must submit scores from the MAT or the GRE. Applicants should submit a formal art education research paper for review. Applications are accepted throughout the year.

**Contact:**
School of Art
http://art.asu.edu
Art Building 121
480/965-6303

**Art History (MA) FAARTHISMA**
Herberger Institute for Design and the Arts

**Official Degree Awarded:** MA Art History

**Program Description:** The faculty in the School of Art offer a program with a major in art leading to the M.A. with concentrations in art education and art history.

**Program Requirement:** The degree program requires 30 credit hours, including a minimum of 21 hours in art history, with at least 12 of these earned in 500-level seminars. At least one course must be taken in each of the four core areas:

- Non-Western.
- Ancient/medieval.
- Renaissance/baroque.
- Modern.

Satisfactory completion of ARS 501 Methodologies and Art History is required during the first semester of residence. The remaining hours include ARS 599 Thesis, approved electives and other courses specified by the faculty.

**Admission Requirements:**

1. All applicants must submit a Graduate College online application.
2. An applicant must have a bachelor’s degree from a regionally accredited university with an undergraduate major or minor in art history, or at least four upper-division art history courses, in which a GPA of 3.00 or higher was maintained.

3. GRE scores must be submitted in support of the application, along with three letters of recommendation.

4. Applicants should submit one formal research paper for review.

5. Applicants should submit a one-page statement of intent indicating their objectives for graduate study.

The application deadline is Jan. 15.

Contact:
School of Art
http://art.asu.edu
Art Building 102
480/965-6303

Building Design: Energy Perf/Climate Responsive Arch (MS) ARENERGYMS
Herberger Institute for Design and the Arts

Official Degree Awarded: MS Building Design (Energy Performance & Climate Responsive Architecture)

Program Description: The building design M.S. program with a concentration in energy performance and climate-responsive architecture educates students to become experts in energy efficient design and technology. The program is concerned with the relationships between climate and site, thermal and visual comfort, and energy demand and consumption. Courses in this concentration establish a basic core of knowledge of the principles of the natural energies available at the building boundary due to climate and site; thermal and optic behavior of building materials and components; passive and low-energy architectural systems for heating, cooling, and lighting; and appropriate integration with mechanical systems. Additional courses are available to support advanced study and research in a variety of related specialties.

Program Requirement: The student will complete a minimum of 30 credit hours.

First Year

Fall (9)
ATE 560 Building Energy Analysis (3)
ATE 521 Building Environmental Science (3)
ATE 598 Sustainability In the Built Environment (3)

Spring (9)
ATE 598 Renewable Energy Systems (3)
ATE 598 Building Energy Analysis II (3)
ATE 562 Experimental Evaluation (3)  
ATE 591 Seminar: Energy and Climate (1)*

**Second Year**

**Fall (9)**

- Environmental Control Systems (3)  
- Passive Heating and Cooling (3)  
- Professional Electives (3)

**Spring (3)**

- ATE 599 Thesis (3)

*This is not a required courses for the degree; however, it is a recommended elective.

**Admission Requirements:** Applicants to the program must:

1. Submit an online Graduate College application.  
2. Have a previous five- or six-year National Architectural Board (NAAB) accredited degree in architecture (B.Arch. or M.Arch.).  
3. Hold an undergraduate or graduate degree from a college or university recognized by ASU.  
4. Meet the minimum GPA requirements as established by the Graduate College.  
5. Provide an official copy of GRE scores (unofficial copies will not be accepted). For more information on the GRE see [http://www.gre.org](http://www.gre.org), or if you live near ASU, see [http://www.asu.edu/uts](http://www.asu.edu/uts). The School of Architecture and Landscape Architecture does not have a minimum score for admission, however, the average scores of admitted students are between 500-600 for each section.

In addition to the above requirements, international students are required to submit an official Test of English as a Foreign Language (TOEFL) score [http://www.toefl.org](http://www.toefl.org). The minimum score for admission to the program is 100 (Internet-based) or 600 (paper-based). Other information for international applicants can be found on the Graduate College Web site at [http://graduate.asu.edu/admissions/international.html](http://graduate.asu.edu/admissions/international.html).

Admission to the program is selective, and the M.S. in building design program does not defer admission. Students must enroll in the semester for which they are admitted otherwise they will need to go through the entire application process again for the year in which they are applying.

A personal interview is not required; however, a candidate wishing to visit the school is welcome and should make arrangements by contacting the department.
Additional Admission Requirements

1. Applicants should write their name in a clear and consistent manner on all materials submitted, preferably in the “family name, first name” format (e.g. Smith, John).
2. Statement of Intent. A personal narrative (maximum 600 words or two pages typed) indicating the applicant’s interest, previous academic and practical background, as well as personal and professional educational objectives.
3. Letters of Recommendation. A minimum of three letters of recommendation in support of the applicant must be mailed directly to the graduate admissions committee, School of Architecture and Landscape Architecture. The references should be from professionals or educators familiar with the applicant’s experience and capability for graduate work.
4. Portfolio. Candidates applying for the M.S. in building design program must also provide a portfolio. See the portfolio requirements outlined on the Herberger Institute for Design and the Arts Web site for more information.

Submit the statement of intent, recommendation letters, portfolio, and the contact information sheet to the following address:

Master of Science in Building Design Admissions Committee
School of Architecture and Landscape Architecture
Arizona State University
P.O. Box 871605
Design North, room 162
Tempe, AZ 85287-1605

Please submit your online application and fee, test scores (GRE or TOEFL) and official transcripts from all post-secondary institutions directly to the Graduate College.

Application Deadlines

All materials must be received by the School of Architecture and Landscape Architecture and the Graduate College by Jan. 15 for summer semester consideration. Priority will be given to students who have submitted all the required application materials to both the Graduate College and the School of Architecture and Landscape Architecture by deadline of Jan. 15. The M.S. in building design program does not admit students for the spring semester of fall semester.

Applications for assistantships and scholarships are generally considered at the same time as the application for admission.

Contact:
School of Architecture and Landscape Architecture
http://design.asu.edu/sala/index.shtml
Ceramics (MFA) FACERAMMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Ceramics)

Program Description: World-renowned faculty strive to ensure that graduates learn the techniques and concepts that will enable their work to take any direction they wish. A strong guest artist schedule enhances the program. Artists come from the world over, including Thailand, China, Australia and Turkey.

The recent addition of the nationally important Ceramics Research Center at the ASU Art Museum, with its collection of more than 3,000 pieces, provides unparalleled opportunities to study and research ceramics.

Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration (with the exception of digital technology where 18 credit hours are studio classes and 18 credit hours are individual study classes).
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses), except for digital technology, which requires six credit hours of art history.
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art (except for digital technology, which requires nine credit hours of electives in the School of Art and Arts, Media and Engineering).
4. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition (except for digital technology, where six hours will be ART 680 and six hours will be AME 593).

Admission Requirements: A bachelor's degree from a college or university recognized by ASU is required. All applicants must submit the Graduate College online application. All students applying for the M.F.A. must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. Statement of intent pertaining to the students educational objectives are also required.

Contact:
School of Art
http://art.asu.edu
Art Building 102
480/965-6303

Conducting (DMA) FACONDDMA
Herberger Institute for Design and the Arts

Official Degree Awarded: DMA Music (Conducting)

Program Description: The D.M.A. is a professional degree program designed for students desiring high levels of performance, academic proficiency and preparation for teaching positions at the university level. The major is music with four concentrations:

- Conducting.
- Music composition.
- Music education
- Performance (instrumental, keyboard, collaborative piano, piano pedagogy, voice).

Program Requirement: A total of 90 credit hours beyond the bachelor’s degree is required. Only 30 hours from a master’s degree or other postgraduate work will be counted toward the 90 hour requirement. Once admitted to a D.M.A. degree program, the student is expected to be enrolled continuously, excluding summer sessions, until all requirements for the degree have been fulfilled. In general, the D.M.A. degree student should expect to spend at least the equivalent of three academic years beyond the bachelor’s degree in the program. A minimum of two semesters must be spent in continuous full-time residence at ASU. At least 54 hours must be completed in residence at ASU. The conducting concentration requires the completion of research papers/projects in conjunction with performances (one of which must be a lecture-recital).

Admission Requirements: The applicant must submit the Graduate College application. Students seeking admission normally hold the M.Mus. Applicants with other degrees are considered if they have received graduate training similar to that normally expected in a M.Mus. program. The application for admission must be accompanied by:

1. An applicant’s statement relating to goals, preparation and educational background.
2. Scores for the GRE (quantitative, verbal and analytical) or the MAT.
3. Three letters of recommendation are required.
5. Additional audiotapes may be submitted to reflect the applicant's ability to refine music in a performance setting.

Once reviewed, an applicant may be asked for a live audition. The deadline is Feb. 15 for teaching assistantship applications.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
Music E167
480/965-5069

Dance (MFA) FADANCEMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Dance

Program Description: The M.F.A. in dance at ASU is a highly flexible program which offers a solid foundation in practical and theoretical course work. The department actively welcomes a diversity of applicants, including returning professionals, with experience and/or interest in:

- Community-based practice.
- Creative practice.
- Dance history.
- Dance making.
- Dance science and somatics.
- Educational and professional partnerships.
- Interdisciplinary and/or cross-cultural approaches.
- Philosophy and criticism.
- Sance and technology.

The ASU Department of Dance seeks individuals who are self-motivated, have clear and demonstrated objectives and are willing to explore new possibilities in the field of dance and beyond.

Program Requirement: The M.F.A. in dance requires 60 credit hours. Incoming students are encouraged to take foundational course work, which has been designed to be a broad and fundamental preparation for future careers in:

- Community colleges.
- Community partnerships.
- High schools.
- Higher education.
- Independent artistic practice.
- Private studios.
• Professional dance companies.
• Technology.
• The wellness industry.

In addition to the foundational course work, approximately 18 credit hours are available to pursue a specialization of interest.

The M.F.A. project in dance, worth eight credits, serves as the capstone experience in the graduate dance curriculum. Students have the opportunity to select the format and structure of their project in conjunction with their M.F.A. committee. Conceived as a bridge to career, the project should take into consideration the future goals of the student.

Flexibility in program design is strongly encouraged. The department recognizes and encourages individual strengths and professional experience that may strongly affect the student.

*Admission Requirements:* To apply for admission to the M.F.A. in dance program, a student must complete an application form and supply official copies of all transcripts from previous institutions to the Graduate College.

The Department of Dance requires:

1. A current resume.
2. DVD of recent work.
3. Three letters of recommendation from professionals in the field.
4. A personal artistic statement that relates to department core values as described by the learning lens.

*Contact:*
School of Dance
http://dance.asu.edu/
asudance@asu.edu
PEBE 170A
480/965-1208

**Dance - Interdisciplinary Digital Media & Perform. (MFA) FADANDIMFA**
Herberger Institute for Design and the Arts

*Official Degree Awarded:* MFA Dance (Interdisciplinary Digital Media and Performance)

*Program Description:* The concentration in interdisciplinary digital media and performance (IDMP) expands on the strength of the Department of Dance in the specific area of interactive arts, and provides a highly select group of graduate students with a more rigorous, in-depth and fully supported opportunity to specialize in dance and interdisciplinary digital arts.
The interdisciplinary classes and research activities of the transdisciplinary Arts, Media and Engineering Program (AME) that form part of this concentration give students access to the high-end media technology studios of AME, to project funding and to interdisciplinary collaborators. The M.F.A. project, which may involve producing original creative work, presenting a lecture demonstration on a body of research or another form of original work, acts as the culminating experience of the program. A final written thesis, reflective in nature, as well as an oral defense complete the process.

Program Requirement: The degree requires 60 credit hours and normally involves three years of residency:

1. Interview for admission into the program.
2. Ongoing showings of work.
3. 18 credit hours of required course work in the concentration taught by AME.
4. 19 required credit hours in the Department of Dance.
5. 15 credits of electives.
6. A final M.F.A. project (eight credits).
8. An oral defense.

The current M.F.A. in dance is a 60-credit-hour program, normally accomplished during three years of residency in the department. Ongoing showings of choreography and/or other creative work are required. Foundational course work is offered in areas of:

- Choreography.
- Education.
- Professional development.
- Technique.
- Technology.
- Theory.

Students enrolled in the IDMP specialize in areas related to independent research. The M.F.A. project, which may involve producing original choreography, presenting a lecture demonstration on a body of research or another form of original work, acts as the culminating experience of the program. A final written thesis, reflective in nature, as well as an oral defense complete the process.

Admission Requirements: To apply for admission to the M.F.A. program in dance, a student must complete an application form and supply official copies of all transcripts from previous institutions to the Graduate College.

The Department of Dance requires:

1. A current resume.
2. DVD of recent work.
3. Three letters of recommendation from professionals in the field.
4. A personal artistic statement that relates to department core values as described by the learning lens.

Contact:
School of Dance
http://dance.asu.edu/
asudance@asu.edu
PEBE 170A
480/965-1208

Design (Interaction Design) (MSD) ARDSCIMSD
Herberger Institute for Design and the Arts

Official Degree Awarded: MSD Design (Interaction Design)

Program Description: Interaction design is about people: how people connect through products and services. The interaction design concentration focuses on the study of principles, tools, complexities and change that prepare students for endeavors such as creating effective physical and virtual shopping, creating effective information retrieval systems and numerous such human-spatial interactions. Design principles guide the students in the methods of creating dynamic, expressive and communicative forms.

Program Requirement: This program requires 36 credit hours and a thesis or 36 credit hours and an applied project. Students may choose to complete their graduate work by way of a thesis or an applied project. A master’s thesis is a scholarly endeavor that demonstrates the ability of the author to do supervised research and intellectual writing. The applied project is somewhat different. It includes both a project and a written document and is a scholarly endeavor that demonstrates the ability of the designer to do supervised research and present substantial evidence of the ability to apply research creatively to a design situation.

Admission Requirements: Applicants to the M.S.D. program must hold a bachelor’s degree in graphic design, industrial design, interior design or a related design discipline. When applying for admission, applicants must declare one of seven concentrations:

- Arts, media and engineering.
- Healthcare and healing environments.
- Industrial design.
- Interactive design.
- Interior design.
- New product innovation.
- Visual communication design.
Further information can be found in the program description on the admissions Web page at http://www.design.asu.edu/msd/admission.shtml.

Admission is a two-step process. Although applicants fill out one application through the online Graduate College application process, they must be admitted into both the concentration in the M.S.D. program and the Graduate College.

**M.S.D. Program Requirements**

1. A 3.00 or higher undergraduate GPA.
2. Minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or 80 on the Internet-based test, for international students whose native language is not English.
3. GRE scores are not required.

Applicants are required to submit the following materials with their application in addition to Graduate College requirements:

1. A mandatory statement of intent, utilizing the required form found at http://www.design.asu.edu/msd/admission.shtml, which will include the following points:
   - Intended concentration.
   - Proposed research topic. What will be your research focus? Why is this research important to you, the design community and the general population?
   - Proposed mentor for intended research. Faculty biographies can be found on the Web site at http://design.asu.edu/msd/faculty.shtml.
   - Personal academic background and professional experience that has prepared you for or will support your proposed research topic.
2. Three letters of recommendation from persons who are qualified to comment on your potential in the selected concentration. Students will provide the names and contact information of three recommenders at the time of their online application. Recommanders will receive an email with a link to the online letter of recommendation to complete. Students are able to see which recommenders have already completed their recommendation by logging into the My ASU system and viewing their “To Do” list. Once a recommender has submitted the letter of recommendation, the recommender’s name will be removed from the “To Do” list. All letters must be in English.
3. Applicants wishing to be considered for teaching or research assistantships (T.A./R.A.) should submit an additional statement outlining areas in which they feel competent to serve as a teaching or research assistant and inexpensive copies of samples of work that will not be returned. All interested applicants can apply for a T.A. position online. The link to the application will be provided on the M.S.D. Web site.
All international teaching or graduate assistants whose primary language is not English are required to be certified in their English language abilities. Those individuals whose native language is not English will be required to submit a Speaking Proficiency English Assessment Kit (SPEAK) score, which is administered at ASU. Students also have the option of completing the Test of Spoken English (TSE), administered directly by the Educational Testing Service (ETS). For this group, no Personnel Action form (PAF) will be signed until this examination has been successfully completed.

The ASU American English and Culture Program (AECP) will certify all T.A.s who take the SPEAK. International students whose primary language is not English will not be permitted to serve as T.A.s unless they have AECP certification. Information about AECP certification can be found online at http://www.asu.edu/aecp/ITAinfo/. You will need to have this certification on order to receive a T.A. appointment in the Herberger Institute for Design and the Arts.

4. A current résumé.
5. An 8.5 x 11 portfolio documenting papers and imaginative projects that support the intended concentration and demonstrate drawing, rendering, graphic and modeling skills. The portfolio is returned after final admission procedures, provided sufficient prepaid postage is enclosed or the materials are claimed in person within one year of submission. Unclaimed portfolios are retained for only one year. The M.S.D. program assumes no liability for lost or damaged materials.

Important Note: Items one through four must be uploaded at the time of application. Item five must be sent to the M.S.D. program address. Do not send these materials to the Graduate College. If these materials are sent to any area other than the M.S.D. program, they will not be reviewed and your application will be denied.

M.S.D. Program
School of Design Innovation
Herberger Institute for Design and the Arts
Arizona State University
P.O. Box 872105
Tempe, AZ 85287-2105

For delivery, please use this address:
ASU Herberger Institute for Design and the Arts
Attn: MSD Program
810 S. Forest Mall
Tempe, AZ 85287

Contact:
School of Design Innovation
Program Description: The M.S.D. with a concentration in new product innovation is a research-oriented graduate degree. In this degree program, students will apply the concepts learned in the core and required courses through the execution of an applied project, which could be the design and development of a new product, a new method of doing design research, new design guidelines for medical devices, etc. The focus is on application, and the student will present evidence of knowledge of principles in new product innovation, strategy for implementation or methods of design evaluation. Students will present the projects through a design presentation, executive summary and project document.

Program Requirement: This is a 36-credit-hour, project-based concentration that teaches graduate students about the role of design and innovation in the process of new product development within the context of a quickly evolving global economy.

Students complete their graduate work with an applied project. It includes both a project and a written document and is a scholarly endeavor that demonstrates the ability of the designer to do supervised research and present substantial evidence of the ability to creatively apply research to a design opportunity.

Admission Requirements: Applicants to the M.S.D. program must hold a bachelor’s degree in graphic design, industrial design, interior design or a related design discipline. When applying for admission, applicants must declare one of seven concentrations:

- Arts, media and engineering.
- Healthcare and healing environments.
- Industrial design.
- Interactive design.
- Interior design.
- New product innovation.
- Visual communication design.

Further information can be found in the program description on the admissions Web page at http://www.design.asu.edu/msd/admission.shtml.

Admission is a two-step process. Although applicants fill out one application through the online Graduate College application process, they must be admitted into
both the concentration in the M.S.D. program and the Graduate College.

M.S.D. Program Requirements

1. A 3.00 or higher undergraduate GPA.
2. Minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or 213 on the computer-based test or 83 on the internet-based test, for international students whose native language is not English.
3. GRE scores are not required.

Applicants are required to submit the following materials with their application in addition to Graduate College requirements:

1. A mandatory statement of intent, utilizing the required form found at http://www.design.asu.edu/msd/admission.shtml, which will include the following points:
   - Intended concentration.
   - Proposed research topic. What will be your research focus? Why is this research important to you, the design community and the general population?
   - Proposed mentor for intended research. Faculty biographies can be found on the Web site at http://design.asu.edu/msd/faculty.shtml.
   - Personal academic background and professional experience that has prepared you for or will support your proposed research topic.
2. Three letters of recommendation from persons who are qualified to comment on your potential in the selected concentration. Students will provide the names and contact information of three recommenders at the time of their online application. Recommenders will receive an email with a link to the online letter of recommendation to complete. Students are able to see which recommenders have already completed their recommendation by logging into the My ASU system and viewing their “To Do” list. Once a recommender has submitted the letter of recommendation, the recommender’s name will be removed from the “To Do” list. All letters must be in English.
3. Applicants wishing to be considered for teaching or research assistantships (T.A./R.A.) should submit an additional statement outlining areas in which they feel competent to serve as a teaching or research assistant and inexpensive copies of samples of work that will not be returned. All interested applicants can apply for a T.A. position online. The link to the application will be provided on the M.S.D. Web site.

All international teaching or graduate assistants whose primary language is not English are required to be certified in their English language abilities. Those individuals whose native language is not English will be required to submit a Speaking Proficiency English Assessment Kit (SPEAK) score, which is administered at ASU. Students also have the option of completing the Test
of Spoken English (TSE), administered directly by the Educational Testing Service (ETS). For this group, no Personnel Action form (PAF) will be signed until this examination has been successfully completed.

The ASU American English and Culture Program (AECP) will certify all T.A.s who take the SPEAK. International students whose primary language is not English will not be permitted to serve as T.A.s unless they have AECP certification. Information about AECP certification can be found online at http://www.asu.edu/aecp/ITAinfo/. You will need to have this certification on order to receive a T.A. appointment in the Herberger Institute for Design and the Arts.

4. A current résumé.
5. An 8.5 x 11 portfolio documenting papers and imaginative projects that support the intended concentration and demonstrate drawing, rendering, graphic and modeling skills. The portfolio is returned after final admission procedures, provided sufficient prepaid postage is enclosed or the materials are claimed in person within one year of submission. Unclaimed portfolios are retained for only one year. The M.S.D. program assumes no liability for lost or damaged materials.

Important Note: Items one through four must be uploaded at the time of application. Item five must be sent to the M.S.D. program address. Do not send these materials to the Graduate College. If these materials are sent to any area other than the M.S.D. program, they will not be reviewed and your application will be denied.

M.S.D. Program
School of Design Innovation
Herberger Institute for Design and the Arts
Arizona State University
P.O. Box 872105
Tempe, AZ 85287-2105

For delivery, please use this address:
ASU Herberger Institute for Design and the Arts
Attn: MSD Program
810 S. Forest Mall
Tempe, AZ 85287

Contact:
School of Design Innovation
http://www.design.asu.edu/msd/index.shtml
design.grad@asu.edu
CDN 162
480/965-7007
**Design (Visual Communication Design) (MSD) ARVCDMSD**

Herberger Institute for Design and the Arts

**Official Degree Awarded:** MSD Design (Visual Communication Design)

**Program Description:** The M.S.D. with a concentration in visual communication design is meant for individuals interested in advanced studies in visual language, history, theory, criticism and methodology, design processes, and technology. This concentration develops an understanding of contemporary graphic design issues through specialized research and design skills. It also prepares the graduate student for a career in graphic design education.

**Program Requirement:** This program requires 36 credit hours and a thesis or 36 credit hours and an applied project. Students may choose to complete their graduate work by way of a thesis or an applied project. A master's thesis is a scholarly endeavor that demonstrates the ability of the author to do supervised research and intellectual writing. The applied project is somewhat different. It includes both a project and a written document and is a scholarly endeavor that demonstrates the ability of the designer to do supervised research and present substantial evidence of the ability to apply research creatively to a design situation.

**Admission Requirements:** Applicants to the M.S.D. program must hold a bachelor's degree in graphic design, industrial design, interior design or a related design discipline. When applying for admission, applicants must declare one of seven concentrations:

- Arts, media and engineering.
- Healthcare and healing environments.
- Industrial design.
- Interactive design.
- Interior design.
- New product innovation.
- Visual communication design.

Further information can be found in the program description on the admissions Web page at http://www.design.asu.edu/msd/admission.shtml.

Admission is a two-step process. Although applicants fill out one application through the online Graduate College application process, they must be admitted into both the concentration in the M.S.D. program and the Graduate College.

**M.S.D. Program Requirements**

1. A 3.00 or higher undergraduate GPA.
2. Minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or 213 on the computer-based test or 83 on the internet-based test, for international students whose native language is not English.
3. GRE scores are not required.

Applicants are required to submit the following materials with their application in addition to Graduate College requirements:

1. A mandatory statement of intent, utilizing the required form found at http://www.design.asu.edu/msd/admission.shtml, which will include the following points:
   - Intended concentration.
   - Proposed research topic. What will be your research focus? Why is this research important to you, the design community and the general population?
   - Proposed mentor for intended research. Faculty biographies can be found on the Web site at http://design.asu.edu/msd/faculty.shtml.
   - Personal academic background and professional experience that has prepared you for or will support your proposed research topic.

2. Three letters of recommendation from persons who are qualified to comment on your potential in the selected concentration. Students will provide the names and contact information of three recommenders at the time of their online application. Recommenders will receive an email with a link to the online letter of recommendation to complete. Students are able to see which recommenders have already completed their recommendation by logging into the My ASU system and viewing their “To Do” list. Once a recommender has submitted the letter of recommendation, the recommender’s name will be removed from the “To Do” list. All letters must be in English.

3. Applicants wishing to be considered for teaching or research assistantships (T.A./R.A.) should submit an additional statement outlining areas in which they feel competent to serve as a teaching or research assistant and inexpensive copies of samples of work that will not be returned. All interested applicants can apply for a T.A. position online. The link to the application will be provided on the M.S.D. Web site.

   All international teaching or graduate assistants whose primary language is not English are required to be certified in their English language abilities. Those individuals whose native language is not English will be required to submit a Speaking Proficiency English Assessment Kit (SPEAK) score, which is administered at ASU. Students also have the option of completing the Test of Spoken English (TSE), administered directly by the Educational Testing Service (ETS). For this group, no Personnel Action form (PAF) will be signed until this examination has been successfully completed.

   The ASU American English and Culture Program (AECP) will certify all T.A.s who take the SPEAK. International students whose primary language is not English will not be permitted to serve as T.A.s unless they have AECP certification. Information about AECP certification can be found online at
You will need to have this certification on order to receive a T.A. appointment in the Herberger Institute for Design and the Arts.

4. A current résumé.
5. An 8.5 x 11 portfolio documenting papers and imaginative projects that support the intended concentration and demonstrate drawing, rendering, graphic and modeling skills. The portfolio is returned after final admission procedures, provided sufficient prepaid postage is enclosed or the materials are claimed in person within one year of submission. Unclaimed portfolios are retained for only one year. The M.S.D. program assumes no liability for lost or damaged materials.

Important Note: Items one through four must be uploaded at the time of application. Item five must be sent to the M.S.D. program address. Do not send these materials to the Graduate College. If these materials are sent to any area other than the M.S.D. program, they will not be reviewed and your application will be denied.

M.S.D. Program
School of Design Innovation
Herberger Institute for Design and the Arts
Arizona State University
P.O. Box 872105
Tempe, AZ 85287-2105

For delivery, please use this address:
ASU Herberger Institute for Design and the Arts
Attn: MSD Program
810 S. Forest Mall
Tempe, AZ 85287

Contact:
http://design.asu.edu/msd/index.shtml
design.grad@asu.edu
CDN 162
480/965-7007

Drawing (MFA) FADRAWMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Drawing)

Program Description: Faculty assist students in both artistic and professional development, teaching about portfolio development, photographing artwork, acquiring a gallery affiliation, different types of exhibition venues available.

Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:
1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration (with the exception of digital technology where 18 credit hours are studio classes and 18 credit hours are independent research).

2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses), except for digital technology, which requires six credit hours of art history.

3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art (except for digital technology, which requires nine credit hours of electives in the School of Art and Arts, Media and Engineering).

4. 10 to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition (except for digital technology, where six hours will be ART 680 and six hours will be AME 593).

**Admission Requirements:** A bachelor's degree from a college or university recognized by ASU is required. All applicants must submit an online application to the Graduate College. All students applying for the M.F.A. must submit to the graduate coordinator:

- A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
- Three letters of recommendation.
- A current curriculum vitae.
- Statement of intent pertaining to the students educational objectives are also required.

**Contact:**
School of Art
http://art.asu.edu
ART 102
4809656303

**Environmental Design/Planning (PhD) ARENVDEPHD**
Herberger Institute for Design and the Arts

**Official Degree Awarded:** PHD Environmental Design/Planning

**Program Description:** The Doctor of Philosophy in environmental design and planning is an individualized college-wide interdisciplinary degree that integrates graduate courses and faculty research expertise with concentrations in design; planning; healthcare and healing environments; or history, theory and criticism. The program is at the cutting edge of creating new knowledge in architecture, design and planning. It complements interdisciplinary research in other disciplines within the university. Broad in scope, the program involves multidisciplinary research interests at both micro- and macro-scale levels of design and planning. The program
provides research experience for students wishing to pursue careers in industry as members of interdisciplinary design and planning teams on environmental and energy issues, as well as for those wishing to teach in the architecture, design or planning fields.

**Program Requirement:** Students must be thoroughly familiar with design and planning and are expected to demonstrate a high level of academic maturity before being admitted to the program. This program requires 84 credit hours, a dissertation and written and oral comprehensive examinations. Up to 30 credit hours from a previously awarded master's degree can count towards the requirements of the doctoral program.

Of the 54 credit hours, 12 must be dissertation credit and 12 may be research. These 24 hours plus the remaining 30 hours must be completed after admission to the program. No transfer credits are allowed to fulfill the 54-credit-hour minimum requirement completed after admission to the program.

The student is required to take 15 credit hours in the area of concentration and a minimum of nine credit hours of specialized course work outside the area of concentration; a minimum of six credit hours in current research and research methods is required.

Each student entering the doctoral program is required to submit a plan of study during the first year.

**Admission Requirements:** Students are admitted to the doctoral program only upon completion of a master's degree in architecture, graphic design, industrial design, interior design, landscape architecture, or planning or upon the demonstration of equivalent standing. Students must be familiar with design and planning and will be expected to demonstrate a high level of academic maturity before being admitted to the program.

The doctoral executive committee evaluates the applications and supporting materials during the spring for fall semester admissions. Admission decisions are based on the compatibility of the applicant's career goals with the purpose of the degree program, the research mission of the college and the research interests of faculty, previous academic training and performance, GRE scores, recommendation letters, and the ability of the potential mentor to devote time to the student.

The recommendations of the committee are forwarded to the school directors for their approval. Upon the written recommendation from the program director, the dean of the Graduate College will notify all applicants in writing of the admission decision.

In addition to the Graduate College requirements, applicants must submit the following Doctor of Philosophy application requirements online at the time of
application. The application will be considered incomplete if one of these items is missing.

1. A statement of purpose summarizing career objectives and the reasons for pursuing doctoral education.
2. An indication of proposed area of concentration (design, planning, history, theory, and criticism, or healthcare and healing environments).
3. An indication of a potential mentor in the Herberger Institute for Design and the Arts. We recommend that you e-mail the faculty member(s) that you feel have related research interests to introduce yourself and to inquire about their availability to be a mentor to you.
4. Three letters of recommendation (preferably academic, although could be professional). Students will provide the names and contact information of three recommenders at the time of their online application. Recommenders will receive an e-mail with a link to the online letter of recommendation to complete. Students are able to see which recommenders have already completed their recommendation by logging into the MyASU system and viewing their “To Do” list. Once a recommender has submitted the letter of recommendation, the recommender's name will be removed from the “To Do” list. All letters must be in English.
5. A sample of sole-authored written work in English or any other evidence relevant to admission to the program (i.e., master's thesis, research paper, or published articles).
6. GRE scores.
7. A Test of English as a Foreign Language (TOEFL) score of at least 100 iBT or 600 PBT or an overall International English Language Testing System (IELTS) band score of 7.50, with no individual band below 7.00, is required of all applicants whose native language is not English. International applicants who are interested in receiving funding as teaching assistants must take the Speaking Proficiency English Assessment Kit (SPEAK), administered at ASU, and become certified. Additional information is available on the department Web site.

Contact:
School of Design Innovation
http://design.asu.edu/phd
design.grad@asu.edu
CDN 162
480/965-7007

Environmental Design/Planning (Healthcare and Healing Environments) (PHD)
ARENHHEPHD
Herberger Institute for Design and the Arts

Official Degree Awarded: PHD Environmental Design/Planning (Healthcare & Healing Environments)
Program Description: The healthcare and healing environments concentration of the Ph.D. in environmental design/planning focuses on the integration of evidence-based design, sustainable science and best practices benchmarks when planning healthcare facilities. Facility-related responsibilities supported by this area cluster into eight functional work units. They are:

1. Programming (long-range planning).
2. Facilities analysis (physical and environmental).
3. Space management/planning.
5. Interior planning and design.
6. Human factors.
7. Codes and strategic planning.

This multidisciplinary program integrates the principles of medical and clinical innovations, interior architecture, human health services, communication studies, architecture, and behavioral and engineering sciences. Students in this program will be mentored by local healthcare design consultants, teaming with nursing students, working directly with real clients and corresponding with forward-thinking healthcare research centers. Graduating students will be able to address healthcare environments on multiple levels; effectively communicate with clinicians; apply evidence based research techniques; and address contemporary issues facing the healthcare industry. Upon graduation, students may pursue advanced positions in the following arenas:

- Large healthcare systems and corporations as strategic planners.
- Elite consulting firms as facility programmers.
- Research centers as decision makers.
- Leading manufacturers and vendors as expert representatives.
- Planning divisions in architectural and planning firms as medical planners.

Program Requirement: Students will be required to complete a minimum of 84 hours which are detailed below:

- Required core courses: six credit hours
- Required concentration courses: 18 credit hours
- Elective courses: 18 credit hours
- Dissertation: 12 credit hours
- Previously completed a master’s degree: 30 credit hours.

If the student has not completed a master’s degree, elective courses approved by the supervisory committee may substitute.

Admission Requirements: Ideal candidates must already hold a master’s degree in design, interior design, architecture, nursing or other related fields. A statement of intent will express interest in the healthcare research/design concentration. If students come in with no design or healthcare background, they must take certain
deficiency courses students. In addition to meeting Graduate College admission requirements, applicants must submit the following items:

1. A minimum of three letters of reference.
2. A sample of written work and any other evidence relevant to admission to the program.
3. A statement of purpose (summarizing career objectives and the reasons for pursuing a doctoral education, as well as indicating the proposed area of concentration and a potential mentor in the College of Design).
4. A proposed mentor and concentration form.
5. GRE scores.
6. A Test of English as a Foreign Language (TOEFL) score of at least 600 or an overall IELTS band score of 7.5, with no individual band below 7.00, is required of all applicants whose native language is not English. International applicants who are interested in receiving funding as teaching associates must take the Speaking Proficiency English Assessment Kit (SPEAK) test administered at ASU and become certified.

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School of Design Innovation
http://design.asu.edu/phd
design.grad@asu.edu
CDN 162
480/965-7007

Ethnomusicology (MA) FAETHNMA
Herberger Institute for Design and the Arts

Official Degree Awarded: MA Music (Ethnomusicology)

Program Description: The M.A. with a concentration in ethnomusicology focuses on the systematic scholarly study of the history and study of various ethnomusicological topics. The faculty comprises leading scholars in a variety of world music expressions.

Program Requirement: A minimum of 30 hours of graduate credit is required, of which at least 20 credit hours must be in the field of ethnomusicology or related fields, including six credit hours of thesis and five or six credit hours in music theory. A passing grade on the foreign language reading exam in French or German is required for graduation.

Admission Requirements: In addition to the ASU Graduate College requirements and a School of Music application form, interested students must submit:

1. Evidence of scholarly achievement or potential (e.g., a term paper).
2. Letters of recommendation from two qualified persons in the field.
3. A one- to two-page personal statement explaining the relationship between the student’s professional and/or personal goals and admission into the M.A. program.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Fibers (MFA) FAFIBERMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Fibers)

Program Description: The curriculum incorporates training in weaving, felt-making, embroidery and 3-D structures, and numerous methods of painting and printing on fabric, including cyanotype and photo-silkscreen techniques.

Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration (with the exception of digital technology where 18 credit hours are studio classes and 18 credit hours are independent research).
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses), except for digital technology, which requires six credit hours of art history.
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art (except for digital technology, which requires nine semester hours of electives in the School of Art and Arts, Media and Engineering).
4. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition (except for digital technology, where six hours will be ART 680 and six hours will be AME 593).

Admission Requirements: A bachelor’s degree from a regionally accredited college or university recognized by ASU is required. All applicants must submit an online application to the Graduate College. All students applying for the M.F.A. must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
   Three letters of recommendation.
2. A current curriculum vitae.
3. A statement of intent pertaining to the student’s educational objectives are also required.

Contact:
School of Art
http://art.asu.edu
ART 102
4809656303

Healthcare and Healing Environments (MSD) ARHHEMSD
Herberger Institute for Design and the Arts

Official Degree Awarded: MSD Design (Design of Healthcare and Healing Environments)

Program Description: The concentration in healthcare and healing environments is focused on factors that impact the design and planning of healthcare facilities and healing environments, especially the integration of evidence-based design, sustainable science and best practices benchmarks with planning healthcare facilities. This multidisciplinary program integrates the principles of medical and clinical innovations, business administration, interior architecture, human health services, communication studies, architecture and behavioral and engineering sciences. Students in this program will be mentored by local healthcare design consultants, teaming with nursing students, working directly with real clients and corresponding with forward-thinking healthcare research centers.

Program Requirement: This program requires 36 credit hours and a thesis or 36 credit hours and an applied project. Students may choose to complete their graduate work by way of a thesis or an applied project. A master’s thesis is a scholarly endeavor that demonstrates the ability of the author to do supervised research and intellectual writing. The applied project is somewhat different. It includes both a project and a written document and is a scholarly endeavor that demonstrates the ability of the designer to do supervised research and present substantial evidence of the ability to apply research creatively to a design situation.

Admission Requirements: Applicants to the M.S.D. program must hold a bachelor’s degree in graphic design, industrial design, interior design or a related design discipline. When applying for admission, applicants must declare one of seven concentrations:

1. Arts, media and engineering.
2. Healthcare and healing environments.
3. Industrial design.
4. Interactive design.
5. Interior design.
7. Visual communication design.
Further information can be found in the program description on the admissions Web page at http://www.design.asu.edu/msd/admission.shtml.

Admission is a two-step process. Although applicants fill out one application through the online Graduate College application process, they must be admitted into both the concentration in the M.S.D. program and the Graduate College.

M.S.D. Program Requirements

A 3.00 or higher undergraduate GPA.

Minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or 213 on the computer-based test or 83 on the internet-based test, for international students whose native language is not English.

GRE scores are not required.

Applicants are required to submit the following materials with their application in addition to Graduate College requirements:

A mandatory statement of intent, utilizing the required form found at http://www.design.asu.edu/msd/admission.shtml, which will include the following points:

1. Intended concentration.
2. Proposed research topic. What will be your research focus? Why is this research important to you, the design community and the general population?
4. Personal academic background and professional experience that has prepared you for or will support your proposed research topic.

Three letters of recommendation from persons who are qualified to comment on your potential in the selected concentration. Students will provide the names and contact information of three recommenders at the time of their online application. Recommenders will receive an email with a link to the online letter of recommendation to complete. Students are able to see which recommenders have already completed their recommendation by logging into the My ASU system and viewing their “To Do” list. Once a recommender has submitted the letter of recommendation, the recommender’s name will be removed from the “To Do” list. All letters must be in English.

Applicants wishing to be considered for teaching or research assistantships (T.A./R.A.) should submit an additional statement outlining areas in which they feel competent to serve as a teaching or research assistant and inexpensive copies of samples of work that will not be returned. All interested applicants can apply for a
T.A. position online. The link to the application will be provided on the M.S.D. Web site.

All international teaching or graduate assistants whose primary language is not English are required to be certified in their English language abilities. Those individuals whose native language is not English will be required to submit a Speaking Proficiency English Assessment Kit (SPEAK) score, which is administered at ASU. Students also have the option of completing the Test of Spoken English (TSE), administered directly by the Educational Testing Service (ETS). For this group, no Personnel Action form (PAF) will be signed until this examination has been successfully completed.

The ASU American English and Culture Program (AECP) will certify all T.A.s who take the SPEAK. International students whose primary language is not English will not be permitted to serve as T.A.s unless they have AECP certification. Information about AECP certification can be found online at http://www.asu.edu/aecp/ITAinfo/. You will need to have this certification on order to receive a T.A. appointment in the Herberger Institute for Design and the Arts.

A current résumé.

An 8.5 x 11 portfolio documenting papers and imaginative projects that support the intended concentration and demonstrate drawing, rendering, graphic and modeling skills. The portfolio is returned after final admission procedures, provided sufficient prepaid postage is enclosed or the materials are claimed in person within one year of submission. Unclaimed portfolios are retained for only one year. The M.S.D. program assumes no liability for lost or damaged materials.

Important Note: Items one through four must be uploaded at the time of application. Item five must be sent to the M.S.D. program address. Do not send these materials to the Graduate College. If these materials are sent to any area other than the M.S.D. program, they will not be reviewed and your application will be denied.

M.S.D. Program
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Herberger Institute for Design and the Arts
Arizona State University
P.O. Box 872105
Tempe, AZ 85287-2105

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810 S. Forest Mall
Tempe, AZ 85287
**Contact:**
School of Design Innovation
http://design.asu.edu/msd/index.shtml
design.grad@asu.edu
CDN 162
480/965-7007

**Industrial Design (MSD) ARINDDEMSD**
Herberger Institute for Design and the Arts

**Official Degree Awarded:** MSD Design (Industrial Design)

**Program Description:** The M.S.D. with a concentration in industrial design is meant for individuals interested in advanced studies in human factors, history, theory, criticism and methodology, design processes and technology. This concentration develops an understanding of contemporary industrial design issues through specialized research and design skills. It also prepares the graduate student for a career in industrial design education.

**Program Requirement:** This program requires 36 credit hours and a thesis or 36 credit hours and an applied project. Students may choose to complete their graduate work by way of a thesis or an applied project. A master’s thesis is a scholarly endeavor that demonstrates the ability of the author to do supervised research and intellectual writing. The applied project is somewhat different. It includes both a project and a written document and is a scholarly endeavor that demonstrates the ability of the designer to do supervised research and present substantial evidence of the ability to apply research creatively to a design situation.

**Admission Requirements:** Applicants to the M.S.D. program must hold a bachelor’s degree in graphic design, industrial design, interior design or a related design discipline. When applying for admission, applicants must declare one of seven concentrations:

1. Arts, media and engineering.
2. Healthcare and healing environments.
3. Industrial design.
4. Interactive design.
5. Interior design.
7. Visual communication design.

Further information can be found in the program description on the admissions Web page at http://www.design.asu.edu/msd/admission.shtml.

Admission is a two-step process. Although applicants fill out one application through the online Graduate College application process, they must be admitted into both the concentration in the M.S.D. program and the Graduate College.
M.S.D. Program Requirements

A 3.00 or higher undergraduate GPA.

Minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or 213 on the computer-based test or 83 on the internet-based test, for international students whose native language is not English. GRE scores are not required.

Applicants are required to submit the following materials with their application in addition to Graduate College requirements:

A mandatory statement of intent, utilizing the required form found at http://www.design.asu.edu/msd/admission.shtml, which will include the following points:

1. Intended concentration.
2. Proposed research topic. What will be your research focus? Why is this research important to you, the design community and the general population?
4. Personal academic background and professional experience that has prepared you for or will support your proposed research topic.

Three letters of recommendation from persons who are qualified to comment on your potential in the selected concentration. Students will provide the names and contact information of three recommenders at the time of their online application. Recommenders will receive an email with a link to the online letter of recommendation to complete. Students are able to see which recommenders have already completed their recommendation by logging into the My ASU system and viewing their “To Do” list. Once a recommender has submitted the letter of recommendation, the recommender’s name will be removed from the “To Do” list. All letters must be in English.

Applicants wishing to be considered for teaching or research assistantships (T.A./R.A.) should submit an additional statement outlining areas in which they feel competent to serve as a teaching or research assistant and inexpensive copies of samples of work that will not be returned. All interested applicants can apply for a T.A. position online. The link to the application will be provided on the M.S.D. Web site.

All international teaching or graduate assistants whose primary language is not English are required to be certified in their English language abilities. Those individuals whose native language is not English will be required to submit a Speaking Proficiency English Assessment Kit (SPEAK) score, which is administered at ASU. Students also have the option of completing the Test of Spoken English (TSE), administered directly by the
Educational Testing Service (ETS). For this group, no Personnel Action form (PAF) will be signed until this examination has been successfully completed.

The ASU American English and Culture Program (AECP) will certify all T.A.s who take the SPEAK. International students whose primary language is not English will not be permitted to serve as T.A.s unless they have AECP certification. Information about AECP certification can be found online at [http://www.asu.edu/aecp/ITAinfo/](http://www.asu.edu/aecp/ITAinfo/). You will need to have this certification on order to receive a T.A. appointment in the Herberger Institute for Design and the Arts.

A current résumé.

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810 S. Forest Mall
Tempe, AZ 85287

Contact:
School of Design Innovation
http://design.asu.edu/msd/index.shtml
design.grad@asu.edu
CDN 162
480/965-7007
**Interior Design (MSD) ARINTDEMSD**
Herberger Institute for Design and the Arts

*Official Degree Awarded:* MSD Design (Interior Design)

*Program Description:* The M.S.D. with a concentration in interior design is meant for individuals interested in advanced studies in facilities planning and management, history, theory, criticism and methodology and human factors. This concentration develops an understanding of contemporary interior design issues through specialized research and design skills. It also prepares the graduate student for a career in interior design education.

*Program Requirement:* This program requires 36 credit hours and thesis or 36 credit hours and an applied project. Students may choose to complete their graduate work by way of a thesis or an applied project. A master's thesis is a scholarly endeavor that demonstrates the ability of the author to do supervised research and intellectual writing. The applied project is somewhat different. It includes both a project and a written document and is a scholarly endeavor that demonstrates the ability of the designer to do supervised research and present substantial evidence of the ability to creatively apply research to a design situation.

*Admission Requirements:* Applicants to the M.S.D. program must hold a bachelor's degree in graphic design, industrial design, interior design or a related design discipline. When applying for admission, applicants must declare one of seven concentrations:

1. Arts, media and engineering.
2. Healthcare and healing environments.
3. Industrial design.
4. Interactive design.
5. Interior design.
7. Visual communication design.

Further information can be found in the program description on the admissions Web page at http://www.design.asu.edu/msd/admission.shtml.

Admission is a two-step process. Although applicants fill out one application through the online Graduate College application process, they must be admitted into both the concentration in the M.S.D. program and the Graduate College.

**M.S.D. Program Requirements**

A 3.00 or higher undergraduate GPA. Minimum score of 550 on the paper-based Test of English as a Foreign Language (TOEFL) or 213 on the computer-based test or 83 on the internet-based test, for international students whose native language is not English.
GRE scores are not required.

Applicants are required to submit the following materials with their application in addition to Graduate College requirements:

A mandatory statement of intent, utilizing the required form found at http://www.design.asu.edu/msd/admission.shtml, which will include the following points:

1. Intended concentration.
2. Proposed research topic. What will be your research focus? Why is this research important to you, the design community and the general population?
4. Personal academic background and professional experience that has prepared you for or will support your proposed research topic.

Three letters of recommendation from persons who are qualified to comment on your potential in the selected concentration. Students will provide the names and contact information of three recommenders at the time of their online application. Recommenders will receive an email with a link to the online letter of recommendation to complete. Students are able to see which recommenders have already completed their recommendation by logging into the My ASU system and viewing their “To Do” list. Once a recommender has submitted the letter of recommendation, the recommender’s name will be removed from the “To Do” list. All letters must be in English.

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A current résumé.

An 8.5 x 11 portfolio documenting papers and imaginative projects that support the intended concentration and demonstrate drawing, rendering, graphic and modeling skills. The portfolio is returned after final admission procedures, provided sufficient prepaid postage is enclosed or the materials are claimed in person within one year of submission. Unclaimed portfolios are retained for only one year. The M.S.D. program assumes no liability for lost or damaged materials.

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P.O. Box 872105  
Tempe, AZ 85287-2105

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http://design.asu.edu/msd/index.shtml  
design.grad@asu.edu  
CDN 162  
480/965-7007

Intermedia (MFA) FAMEDIAMFA  
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Intermedia)

Program Description: Led by exceptional faculty, the intermedia program in the School of Art offers an interdisciplinary environment for professional training in the visual arts. The program covers a wide range of conceptual and media orientations
reflecting the professional practices of a growing team of faculty members. Currently, emphases offered are:

- Animation.
- Digital sculpture.
- Digital video.
- Installation.
- Mixed media.
- Performance.
- Web art.

The ideal student not only is well-grounded in traditional studio practice, but is interested in exploring experimental processes in:

- Animation.
- Installation.
- Performance.
- Sound design.
- 3-D modeling.
- Video.
- Web art.

In addition to a wide range of courses in intermedia, students are encouraged to take advantage of the academic excellence ASU provides as a leading research university by taking classes for full credit in other programs and disciplines. Through regular visiting artist talks, seminars and one-on-one faculty mentorship, the intermedia program offers an engaging environment for critical thinking and creative development.

Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration (with the exception of digital technology where 18 credit hours are studio classes and 18 credit hours are independent research).
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses), except for digital technology, which requires six credit hours of art history.
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art (except for digital technology, which requires nine credit hours of electives in the School of Art and Arts, Media and Engineering).
4. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition (except for digital technology, where six hours will be ART 680 and six hours will be AME 593).
Admission Requirements: A bachelor’s degree from a regionally accredited college or university recognized by ASU is required. All applicants must submit an online application to the Graduate College.

All students applying for the M.F.A. program must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. A statement of intent pertaining to the student’s educational objectives.

Contact:
School of Art
http://art.asu.edu
ART 102
480/965-6303

Landscape Architecture (MLA) ARLDEMLA
Herberger Institute for Design and the Arts

Official Degree Awarded: MLA Landscape Architecture

Program Description: The M.L.A. at ASU prepares individuals for the independent professional practice of landscape architecture and research in various aspects of the field including geology and hydrology; project and site planning; landscape design, history and theory; environmental design; application law and regulations; and professional responsibilities and standards.

The program leverages the arid urban context and rapidly urbanizing landscape of the Phoenix metropolitan region. In response to global depletion of natural resources, global warming and other population-impacted ecological conditions, the curriculum is focused on issues of sustainable landscape urbanism. Students are encouraged to pursue a joint degree with the school’s M.S. in building design and/or the Master of Urban Design degree program.

Applicants who already hold a bachelor’s degree in another field should apply to the three-plus-year M.L.A. degree program.

Program Requirement: Master of Landscape Architecture Program Two-Year Degree Requirements

First Year (Fifth Year)

Fall (14)
LDE 521 Advanced Architectural Studio I (5)
LTC 563 Planting Design (3)
LPH 513 Research in Landscape Architecture Seminar (3)
ATE 598 Sustainability of the Built Environment (3)

Spring (14)

LDE 522 Advanced Landscape Architectural Studio (5)
LTC 546 LA Alternative technologies and Materials (3)
LPH 612 Landscape Architecture Research Methods (3)
L/APH 505 Foundation Theory Seminar (3)

Summer

ARP 584 Clinical Internship 1 (3)

Second Year (Sixth Year)

Fall (14)

LDE 621 Advanced Landscape Architectural Studio (5)
LTC 598 ST: Urban Ecological Design (3)
LPH 613 Landscape Architecture Seminar (3)
Herberger Institute for Design and the Arts professional graduate design elective* (3)

Spring (14)

LDE 622 Advanced Landscape Architectural Studio (5)
L/AAD 652 Professional Practice (3)
LTC 598 ST Urban Landscape Water Systems and Management (3)
Graduate elective (3)

Total Graduate Hours in Program: 56

* The list of Herberger Institute for Design and the Arts design electives can be found on the institute’s Web site: http://www.design.asu.edu.

Master of Landscape Architecture Program Three-Plus-Year Requirement

Note: Bolded courses are considered deficiencies and do not count toward official program of study.

First Year

Summer

LDE 590 Foundation Architectural Studio (6)
ALA 102 Architecture, Landscape Architecture and Society (first five-week session) (3)
ALA 236 Computers in Landscape Architecture (first five-week session) (3)
APH 509 Foundation Seminar (second five-week session) (3)

Fall
LDE 511 Core Architectural Studio I (6)
LPH 310 History of Landscape Architecture (3)
LTC 342 Landscape Implementation-Grading (3)
LTC 598 ST: Natural Factors (3)

Spring
ADE 512 Core Landscape Architectural Studio (6)
LPH 311 Contemporary Landscape Architecture (3)
LTC 344 Landscape Implementation-Construction (3)
LTC 494 Plant Materials (3)

After the first summer and academic year, the three-plus-year curriculum merges with the two-year curriculum and they are the same.

Admission Requirements: Admissions Requirements to the Two-Year Program:

Applicants must:

1. Hold an undergraduate or graduate degree from a college or university recognized by ASU.
2. Have completed a four-year B.S. in landscape architectural studies or similar preprofessional degree in architecture. The bachelor's degree must be granted by an institution that offers the Landscape Architectural Accreditation Board (LAAB) accredited degree program in architecture.
3. Meet the minimum GPA requirements as established by the Graduate College. Provide an official copy of GRE scores (unofficial copies will not be accepted). For more information on the GRE see (http://www.gre.org). The School of Architecture and Landscape Architecture does not have a minimum score for admission, however, the average scores of admitted students are between 500-600 for each section.

In addition to the above requirements, international students are required to submit an official Test of English as a Foreign Language (TOEFL) score (http://www.toefl.org). The minimum score for admission to the program is 100 (Internet-based), 250 (computer-based) or 600 (paper-based). Other information for international applicants can be found on the Graduate College Web site at http://graduate.asu.edu/admissions/international.html.

Additional Admission Requirements

Applicants should write their name in a clear and consistent manner on all materials submitted, preferably in the “family name, first name” format (e.g. Smith, John).
Statement of Intent. A personal narrative (maximum 600 words or two pages typed) indicating the applicant’s interest, previous academic and practical background, as well as personal and professional educational objectives.

Letters of Recommendation. A minimum of three letters of recommendation in support of the applicant must be mailed directly to the graduate admissions committee, School of Architecture and Landscape Architecture. The references should be from professionals or educators familiar with the applicant’s experience and capability for graduate work.

Portfolio. Candidates applying for the two-year Master of Landscape Architecture program must also provide a portfolio of creative works. See the portfolio requirements outlined on the Herberger Institute for Design and the Arts Web site for more information.

Submit the statement of intent, recommendation letters, creative works portfolio and the contact information sheet to the following address:

Master of Architecture and Landscape Architecture Admissions Committee
School of Architecture and Landscape Architecture
Arizona State University
P.O. Box 871605
Design North, room 162
Tempe, AZ 85287-1605

Please submit your online application and fees, test scores (GRE or TOEFL) and official transcripts from all post-secondary institutions directly to the Graduate College.

Admissions Requirements to the Three-Plus-Year Program:

Applicants must:

Apply and then begin the program in the summer.

Hold an undergraduate or graduate degree from a college or university recognized by ASU.

Have earned a bachelor’s degree in a field other than architectural studies leading to the NAAB-accredited program.

Meet the minimum GPA requirements as established by the Graduate College. Provide an official copy of GRE scores (unofficial copies will not be accepted). For more information on the GRE see http://www.gre.org). The School of Architecture and Landscape Architecture does not have a minimum score for admission; however, the average scores of admitted students are between 500-600 for each section.
In addition to the above requirements, international students are required to submit an official Test of English as a Foreign Language (TOEFL) score (http://www.toefl.org). The minimum score for admission to the program is 100 (Internet-based), 250 (computer-based) or 600 (paper-based).

Contact:
School of Architecture and Landscape Architecture
http://design.asu.edu/sala/index.shtml
sala.grad@asu.edu
CDN 162
480/965-3536

**Media Arts and Sciences (PhD) FAMASPHD**
Herberger Institute for Design and the Arts & Ira A. Fulton School of Engineering

**Official Degree Awarded:** PHD Media Arts and Sciences

**Program Description:** Media, art and sciences Ph.D. students train in translating, transporting and combining knowledge across disciplines for the development of innovative experiential media systems and accompanying theoretical models. The degree structure includes transdisciplinary media courses through the Arts, Media and Engineering Program (AME), elective-course credits relating to the student’s research interests, and substantial research and dissertation hours devoted to collaborative research within the AME network. Active participation in AME interdisciplinary research teams allows media, art and sciences Ph.D. students to gain and contribute expertise in knowledge fusion for digital media.

**Program Requirement:** The program requires a total of 84 credit hours. Thirty of the 39 required course credits will be from the transdisciplinary media courses offered by Arts, Media and Engineering Program (AME). All students will be required to take a minimum of two courses under each of the five constituting areas of experiential media (30 hours). The selection of the two courses under the introductory category will depend on the student.

**Admission Requirements:** Applicants will be required to submit:

1. A graduate admissions application.
2. Official transcripts of all undergraduate and graduate course work (if applicable).
3. Official GRE scores.
5. Statement of purpose.
6. Three letters of recommendation and a portfolio of supporting material.

Additionally, the statement of purpose should explain in a concise and persuasive manner how the student’s educational, professional and personal experiences inform their research and creative interests, writing on any aspect of their background that supports candidacy to the AME program.
Each applicant must demonstrate entry-level competencies. This can be demonstrated primarily through a portfolio. The portfolio may include previously developed media products or projects and/or publications demonstrating an understanding of and involvement with digital media and computation. Entry-level competency can also be partially demonstrated through course work and may include such courses as:

- Advanced computer programming.
- Computer graphics and animation.
- Computer music.
- Digital design.
- Film theory.
- Interactive technologies.
- Media authoring tools.
- Media theory.
- Multimedia systems.
- Signal processing.

Contact:
Arts, Media and Engineering
http://ame.asu.edu
ameed@asu.edu
BYENG 395
480/965-9168

Metals (MFA) FMETALSMF
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Metals)

Program Description: The metals and jewelry program boasts an extraordinarily well-equipped studio, with a huge variety of metal-smithing tools. Students are required to take more class hours and learn more skills than at many other schools. Many students take advantage of the close relationship with the faculty.

Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration.
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses). Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art.
3. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition.

**Admission Requirements:** A bachelor’s degree from a regionally accredited college or university recognized by ASU is required. All applicants must submit an online application to the Graduate College. All students applying for the M.F.A. must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. A statement of intent pertaining to the student’s educational objectives.

**Contact:**
School of Art
http://art.asu.edu
ART 102
480/965-6303

*Music - Interdisciplinary Dig. Media & Perf. (DMA) FAINTDDMA*
Herberger Institute for Design and the Arts

**Official Degree Awarded:** DMA Music (Interdisciplinary Digital Media and Performance)

**Program Description:** The D.M.A. with a concentration in interdisciplinary digital media and performance trains students who have interests and skills in unique cross sections of the arts and sciences. The degree expands the School of Music offerings to include areas, which hold great promise for individual student’s professional aspirations. It also keeps the School of Music and its students actively involved in current developments in the ever-changing field of media. The state-of-the-art media facilities of the Arts, Media and Engineering Program (AME) and its hybrid arts-engineering faculty and courses will be an invaluable asset to music students, with resources that complement existing or future courses in electronic music.

**Program Requirement:** This degree program requires:

1. Ninety credit hours.
3. Written examination.
4. Oral examination. The program requires 36 hours in arts, media and engineering, 30 hours in music studies and 24 hours in research and dissertation.

**Admission Requirements:** Applicants must submit the Graduate College online application. Either a portfolio of works or a performance audition is required, as
suits your area of expertise. Application materials should address the hybrid nature of the Arts, Media and Engineering Program.

Send the following items directly to AME, even if duplicates have been sent to the department:

1. Statement of purpose.
2. Curriculum vitae.
3. The statement of purpose must fulfill any requirements of the department and also address the transdisciplinary nature of the Arts, Media and Engineering Program. Applicants should explain in a concise and persuasive manner how their educational, professional and personal experiences inform their research and creative interests, writing on any aspect of their background that supports candidacy to the program.

Contact:
School of Music
http://ame.asu.edu
SOMAdmissions@asu.edu
Music E167
480/965-5069

Music - Interdisciplinary Dig. Media & Perf. (MM) FADIGITMM
Herberger Institute for Design and the Arts

Official Degree Awarded: MM Composition (Interdisciplinary Digital Media and Performance)

Program Description: The M.M. with a concentration in interdisciplinary digital media and performance trains students who have interests and skills in unique cross sections of the arts and sciences. The degree expands the School of Music's offerings to include areas which hold great promise for individual student's professional aspirations. The program provides School of Music students active involvement in current developments in the ever-changing field of media. The state of the art media facilities of Arts, Media and Engineering Program (AME) and its hybrid arts-engineering faculty and courses will be an invaluable asset to music students, with resources that complement existing or future courses in electronic music.

Program Requirement: The program requires:

1. Thirty-two credit hours.
3. A written comprehensive examination.

Admission Requirements: In addition to the ASU Graduate College requirements and School of Music application form, applicants must submit:
1. Three original works showing technical facility in composition.
2. Letters of recommendation from two qualified persons in the field.
3. A one-page personal statement outlining the applicant’s educational and career goals.
4. A statement of purpose that addresses the transdisciplinary nature of the Arts, Media and Engineering Program.

Contact:
School of Music
http://ame.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Music Composition (DMA) FACOMPDM
Herberger Institute for Design and the Arts

Official Degree Awarded: DMA Music (Music Composition)

Program Description: The D.M.A. is a professional program designed for students desiring high-levels of performance, academic proficiency and preparation for teaching positions at the university level. The major is music with four concentrations:

1. Conducting.
4. Performance (instrumental, keyboard, collaborative piano, piano pedagogy, voice).

Program Requirement: A total of 90 credit hours beyond the bachelor's degree is required. Only 30 hours from a previously awarded master's degree will be counted toward the 90 hour requirement.

Once admitted to a D.M.A. program, the student is expected to be enrolled continuously, excluding summer sessions, until all requirements for the degree have been fulfilled. In general, the D.M.A. student should expect to spend at least the equivalent of three academic years beyond the bachelor's degree in the program. A minimum of two semesters must be spent in continuous full-time residence at ASU. At least 54 hours must be completed in residence at ASU.

The music composition concentration requires the creation of a significant original work of music (considered to be a dissertation) and either two article-length research papers or another substantial paper.

Admission Requirements: Students seeking admission normally hold the M.M. Applicants with other degrees are considered if they have received graduate training similar to that normally expected in a M.M. program. All applicants must
submit the Graduate College online application. The application for admission must be accompanied by:

1. An applicant's statement relating to goals, preparation and educational background.
2. A portfolio presenting evidence of accomplishment as a composer, at least three works should be submitted. Materials may include scores, recordings of performances, electronic tapes and/or videotapes. Recent works are preferred.
3. Scores for the GRE (quantitative, verbal and analytical) or the MAT.
4. Three letters of recommendation.

The deadline is Feb. 15 for teaching assistantship applications.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Music Composition (MM) FAMCOMPMM
Herberger Institute for Design and the Arts

Official Degree Awarded: MM Composition

Program Description: The M.M. with a concentration in composition focuses on helping students develop the skills necessary to pursue and advance a career in music composition. The faculty are recognized, active composers whose music represents a wide variety of genres—ranging from chamber to orchestral, acoustic to electronic.

Program Requirement: Degree requirements include:

1. Nine hours of composition.
2. Nine hours of music theory and history.
3. Eight hours of electives.
4. Six hours of thesis.

The thesis is an original composition that demonstrates mastery of composing for the selected performance medium and the coherent organization of musical material. Written and oral examinations are required. An oral defense of the thesis is also required.

Admission Requirements: In addition to the ASU Graduate College requirements and School of Music application form, you must submit:

1. Three original works showing technical facility in composition.
2. Letters of recommendation from two qualified persons in the field.
3. A one-page personal statement outlining your educational and career goals.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Music Education (DMA) FAMUSEDDMA
Herberger Institute for Design and the Arts

Official Degree Awarded: DMA Music (Music Education)

Program Description: The D.M.A. is a professional program designed for students desiring high-levels of performance, academic proficiency and preparation for teaching positions at the university level. The major is music with four concentrations:

1. Conducting.
4. Performance (instrumental, keyboard, collaborative piano, piano pedagogy, voice).

Program Requirement: A total of 90 credit hours beyond the bachelor's degree is required. Only 30 hours from a master's degree will be counted toward the 90 hour requirement.

Once admitted to a D.M.A. program, the student is expected to be enrolled continuously, excluding summer sessions, until all requirements for the degree have been fulfilled. In general, the D.M.A. degree student should expect to spend at least the equivalent of three academic years beyond the bachelor’s degree in the program. At least two semesters must be spent in continuous full-time residence at ASU. At least 54 hours must be completed in residence at ASU.

The music education concentrations require a dissertation of an original and creative nature.

Admission Requirements: Applicants with other degrees are considered if they have received graduate training similar to that normally expected in a M.M. education program. All applicants must submit a Graduate College online application. The application for admission must be accompanied by:

1. An applicant's statement relating to goals, preparation and educational background.
   Scores for the GRE (quantitative, verbal and analytical) or the MAT.
2. Three letters of recommendation.
3. A clear videotape of a rehearsal or class.
4. An example of scholarly work or publication (e.g., term paper).

Once the materials have been reviewed, an applicant may be asked to a live interview. The deadline is Feb. 15 for teaching assistantship applications.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

**Music Education (MM) FAMUSEDMM**
Herberger Institute for Design and the Arts

**Official Degree Awarded:** MM Music Education

**Program Description:** The faculty in the School of Music offer a graduate program leading to the professional M.M.

Three majors are available:

- Composition.
- Music Education.
- Performance.

For the music education major, concentrations are available in:

- Choral music.
- General music.
- Instrumental music.
- Jazz studies.

**Program Requirement:** A total of 32 credit hours in the following areas is required:

**Choral Music**

MUE 548, 549, 550 (or 579), 568, 570
  Two credit hours of ensemble
  Six credit hours of music history (including MHL 675)
  Five or six hours of music theory

**General Music**

MUE 548, 549, 550 (or 579), 551, 552
  Six credit hours of music history
Five or six hours of music theory
One MHL course or one ensemble must be in ethnomusicology

Instrumental Music

MUE 548, 549, 550 (or 579), 564, 566
Six credit hours of music history
Five or six hours of music theory

Jazz Studies

MUE 548, 549, 550 (or 579), 560, 562 (two semesters)
MUP 509, 510, 517, 518
Three credit hours of jazz ensemble
Six credit hours of music history
Five or six hours of music theory (including MTC 598 Jazz Theory and Ear Training)

Admission Requirements: A B.M. or its equivalent from a regionally accredited institution is required for admission to the M.M. program. A post-baccalaureate certificate is available and may be completed concurrently with master's degree work. All applicants must submit a Graduate College online application. For admission to the M.M. in music education, the applicant must:

1. Have completed all requirements for music teacher certification.
2. Submit letters of recommendation from three qualified persons in the field are also required.
3. For the jazz studies concentration, a video or audio tape of a recent jazz performance (solo or ensemble) by the applicant must be submitted, and a video or audio tape of a jazz ensemble directed by the applicant should also be submitted, if available.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E177
480/965-5069

Music History and Literature (MA) FAMHISTMA
Herberger Institute for Design and the Arts

Official Degree Awarded: MA Music (Music History and Literature)

Program Description: The M.A. with a concentration in music history and literature focuses on the systematic scholarly study of a broad range of musicological styles and eras. The faculty comprises leading scholars in a broad range of areas including
American music, musical cultures of the American Southwest, music in popular cultures and Western European art music.

Program Requirement: A minimum of 30 credit hours of graduate credit is required, of which at least two-thirds must be in the field of music history and literature and five or six credit hours in music theory.

MHL 532, 591 (two semesters)
599 Thesis
Five or six hours of music theory
Two credit hours of course work approved by the school

A passing grade on the foreign language examination in French or German is required for graduation.

Admission Requirements: In addition to the ASU Graduate College requirements and a School of Music application form, interested students must submit:

1. Evidence of scholarly achievement or potential (e.g., a term paper).
2. Letters of recommendation from two qualified persons in the field.
3. A one- to two-page personal statement explaining the relationship between the student’s professional and/or personal goals and admission into the M.A. program.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Music Performance (DMA) FAPERFDMA
Herberger Institute for Design and the Arts

Official Degree Awarded: DMA Music (Performance)

Program Description: The D.M.A. is a professional degree program designed for students desiring high levels of performance, academic proficiency and preparation for teaching positions at the university level. The major is music with four concentrations:

- Conducting.
- Music composition.
- Music education.
- Performance (instrumental, keyboard, collaborative piano, piano pedagogy, voice).

Program Requirement: A total of 90 credit hours beyond the bachelor’s degree is required. Only 30 hours from a master’s degree will be counted toward the 90 hour
Once admitted to a D.M.A. program, the student is expected to be enrolled continuously, excluding summer sessions, until all requirements for the degree have been fulfilled. In general, the D.M.A. student should expect to spend at least the equivalent of three academic years beyond the bachelor's degree in the program. At least two semesters must be spent in continuous full-time residence at ASU. At least 54 hours must be completed in residence at ASU.

The performance concentration requires at least three recitals after admission to the program and a research paper/project. All candidates must enroll for a total of 24 credit hours in research (MUP 792), and solo performance (MUP 796).

Admission Requirements: Students seeking admission normally hold the M.M. degree. Applicants with other degrees are considered if they have received graduate training similar to that normally expected in a M.M. degree program. All applicants must submit the Graduate College online application. The application for admission must include:

1. An applicant’s statement relating to goals, preparation and educational background.
2. Submit scores for the GRE (quantitative, verbal and analytical) or the MAT.
3. Three letters of recommendation.
4. A live audition is required. This must include materials from a variety of stylistic periods; a repertoire list must included.

A required repertoire list should include works studied and performed following high school. The list should be divided into two sections:

1. Work publicly performed.
2. Works studied.

In the event a live audition is not possible, tapes may be submitted. If a recorded audition is approved for admission, applicants will be granted “regular admission with deficiencies” or “provisional admission” status until an on-campus audition can be arranged during the first month following the beginning of instruction.

The deadline is Feb. 15 for teaching assistantship applications.

Contact:
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Music Performance (MM) FAPERF3MM
Herberger Institute for Design and the Arts
Official Degree Awarded: MM Performance (Performance)

Program Description: The M.M. with a concentration in performance stresses the pedagogical and performance practices of major western art music. Students work on specific skills for their instrument while developing the knowledge and abilities to be leaders in the music community. The faculty comprises nationally and internationally-recognized teachers, performers and pedagogues in their performance area.

Program Requirement: A total of 32 credit hours are required for the degree including six hours of study in the concentration area, including eight hours of studio instruction and 16 hours in music history, music theory and electives. Written and oral examinations are required.

Admission Requirements: A B.Mus. degree or its equivalent (from an accredited institution) is required for admission to the M.M. program. In addition to the ASU Graduate College requirements and School of Music application form, admission to all concentrations in performance are dependent on a successful audition, either in person or by taped performance. Applicants should also submit a repertoire list as evidence of previous study.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Music Theatre/Opera Musical Direction (MM) FAMUSTHMM
Herberger Institute for Design and the Arts

Official Degree Awarded: MM Performance (Music Theatre/Opera Musical Direction)

Program Description: The M.M. with a concentration in music theatre and opera direction stresses study, individual practice, class work and rehearsals that come together in the productions of the Lyric Opera Theatre, our performance ensemble. Students have the opportunity to work with our faculty and also with world-class guest directors. Every production is fully produced with sets, costumes, lighting and full orchestration.

Program Requirement: A total of 32 credit hours are required for the degree. Degree requirements include:

1. Fifteen hours of study in the concentration area.
2. Six hours of studio instruction (piano).
3. Eleven hours in music history, music theory and electives.
4. Part of the concentration hours must include the musical direction of two Broadway musical productions, which may be either fully staged or workshop productions (MUP 596 and 597).
5. Written and oral examinations are required.

Admission Requirements: A B.Mus., or its equivalent, from a regionally accredited institution is required for admission to the M.M. program. In addition to the ASU Graduate College requirements and School of Music application form, admission to all concentrations in performance are dependent on a successful audition, either in person or by taped performance. Applicants should also submit a repertoire list as evidence of previous study.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Music Therapy (MM) FAMTHERMM
Herberger Institute for Design and the Arts

Official Degree Awarded: MM Music Therapy

Program Description: The faculty in the School of Music offer a graduate program leading to the professional M.M. degree. The graduate degree in music therapy provides music therapists graduate-level study in the theory and practice of music therapy.

Program Requirement: Students are required to complete a minimum of 32 credit hours of graduate course work, of which a least one-third must be in the area of concentration. The music therapy core is comprised of 12 credit hours and eight or nine music history and literature and music theory and composition courses. Electives are also taken, as determined by the music therapy advisor.

Admission Requirements: In addition to the ASU Graduate College requirements and School of Music application form, applicants must submit:

1. Music Therapy Application. Applicants with a bachelor’s degree in music therapy may apply for the master’s degree in music therapy. Applicants with any other bachelor’s degree must apply for the music therapy equivalency program. International students must apply for the master’s degree in music therapy.
2. Audition in functional music skills, involving the demonstration of advanced guitar accompaniment skills, piano accompaniment in several styles, improvisation skills and vocal abilities. An audition tape can be submitted.
3. An in-depth interview is required emphasizing the applicant's music therapy philosophy, research activities and clinical interests. A phone interview can be arranged.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

**Painting (MFA) FAPAINTMFA**
Herberger Institute for Design and the Arts

*Official Degree Awarded: MFA Art (Painting)*

*Program Description:* Faculty assist students in both artistic and professional development, teaching about portfolio development, photographing artwork, acquiring a gallery affiliation, different types of exhibition venues available.

*Program Requirement:* A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration.
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses).
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art.
4. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition.

*Admission Requirements:* A bachelor's degree from a college or university recognized by ASU is required. All applicants must submit the Graduate College online application. All students applying for the M.F.A. degree must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. A statement of intent pertaining to the student's educational objectives are also required.

Contact:
School of Art
Official Degree Awarded: MM Performance (Performance Pedagogy)

Program Description: The M.M. with a concentration in performance pedagogy stresses both the performance and teaching of major Western art music. Students work on specific performance skills while developing the knowledge and abilities to be music pedagogues in their area. The faculty comprises nationally and internationally-recognized teachers, performers and pedagogues in their performance area.

Program Requirement:

Total: 32 credit hours

Foreign Language Requirement:

- None for instrumental or piano.
- For voice, 16 hours of college-level credit in more than one foreign language, chosen from French, German and Italian.

Examinations:

Written and oral examinations are required for graduation.

Admission Requirements:

All applicants must:

1. Submit the Graduate College online application. A B.Mus. or its equivalent from an accredited institution.
2. Successfully audition, either in person or by taped performance.
3. Submit a repertoire list demonstrating previous study.
4. Demonstrate evidence of teaching ability, either in person or by videotape.

Students majoring in performance with a concentration in performance pedagogy (voice) are required to take a diction examination in French, German and Italian during registration week of their first semester. Students who do not pass this examination are required to take the appropriate semester(s) of MUP 250.

For admission to the concentration in performance pedagogy (piano), a minimum of one semester of prior piano pedagogy study that includes significant intern teaching experience is required.
**Photography (MFA) FAPHOTOMFA**  
Herberger Institute for Design and the Arts

**Official Degree Awarded:** MFA Art (Photography)

**Program Description:** The photography program includes critical and cultural analysis of photography. Students can explore interdisciplinary options in their art through close links among the photography program and a number of other disciplines, including printmaking, intermedia and sculpture. The Northlight Gallery is part of the School of Art’s photography program and students have the opportunity to exhibit, view and study the work of outstanding photographic artists from across the country. Students who take the photographic exhibitions class learn how to run a gallery and get practical experience and theoretical training.

**Program Requirement:** A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration.
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses).
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art.
4. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition.

**Admission Requirements:** All applicants must submit the Graduate College online application. A bachelor’s degree from a regionally accredited college or university recognized by ASU is required. All students applying for the M.F.A. must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. A statement of intent pertaining to the student’s educational objectives.

**Contact:**  
School of Art
http://art.asu.edu/
ART 102
480/965-6303

Piano, Collaborative (MM) FACPIANOMM
Herberger Institute for Design and the Arts

Official Degree Awarded: MM Performance (Collaborative Piano)

Program Description: Students majoring in collaborative piano work with all instrumental and vocal areas, concentrating on collaborative endeavors such as duo recitals and chamber music. Students also work on specific skills for their instrument while developing the knowledge and abilities to be skilled and sensitive musical collaborators.

Program Requirement: A minimum of 32 credit hours are required for the degree. Degree requirements include:

Eighteen credit hours in collaborative piano and performance.

Fourteen credit hours of music history, theory and electives.

At least one year of college-level instruction in either French, German, or Italian and at least one of the following are required:

1. One semester of diction in each of the two other languages.
2. One semester of language instruction in each of the two other languages.

Written and oral examinations are also required for the completion of the degree.

Admission Requirements: In addition to the ASU Graduate College requirements and the School of Music application form, students must:

1. Submit repertoire lists as evidence of previous study.
2. Complete an acceptable, in-person audition in collaborative piano.

Contact:
School of Music
http://music.asu.edu
SOMadmissions@asu.edu
MUSIC E167
480/965-5069

Printmaking (MFA) FAPRINTMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Printmaking)
Program Description: Unusual study options include photogravure, collotype and bookmaking. Combined with the major printmaking forms of intaglio, lithography, screen printing and relief, they create a rare combination of study options not available anywhere else in the country. Photo-processing for printmaking and papermaking are also available.

Book arts (one of fewer than a dozen bookmaking programs in the country) and the renowned Pyracantha Press are premier aspects of the program. There also are classes in papermaking.

Interdisciplinary collaboration is encouraged and students often work with other departments in the School of Art, particularly photography and intermedia.

Graduates of the printmaking program go on to careers that include teaching and studio jobs in some of the country’s best fine art print publishing studios. Many former students continue to be productive artists, exhibiting nationally.

Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration.
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement MFA work (nonstudio courses).
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art.
4. Ten to 15 hours of ART 680 Practicum, resulting in an MFA exhibition.

Admission Requirements: All applicants must submit the Graduate College online application. A bachelor's degree from a regionally accredited college or university recognized by ASU is required. All students applying for the M.F.A. must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. A statement of intent pertaining to the student's educational objectives.

Contact:
School of Art
http://art.asu.edu
ART 102
480/965-6303
Real Estate Development (MRED) ARREMREDEV
Herberger Institute for Design and the Arts

Official Degree Awarded: MREDev Real Estate Development

Program Description: The M.R.E.D. program is unlike any other in the nation; it is built upon an innovative transdisciplinary curriculum offered by departments in design, law, business and construction. The curriculum is presented in a fast-paced sequence of topics and issues reflective of the real estate development process.

The curriculum covers specific core knowledge centers and strategic decision-making tools during each of the eight program segments: valuation, segmentation, location, conceptualization, regulations, capitalization, construction, value realization and community.

The M.R.E.D. is an accelerated, 30-credit-hour, 30-week, full-immersion program focused on educating students and mid-career professionals in real estate development. The curriculum includes three synthesis projects that serve as core knowledge demonstration events along with relevant industry case studies, interactive classroom exercises, collaborative group engagements, integration of topical research, site visits, professional mentor presentations and meetings, distinguished visitor lectures and social events. An applied project (third synthesis project) is required as a culminating experience.

For more information, see http://www.mred.asu.edu.

Program Requirement: Thirty credit hours and an applied project are required.

Admission Requirements: Apply online through the ASU Graduate College.

To be eligible for admission to graduate studies, students must have the following:

1. A bachelor’s degree or the equivalent from a regionally accredited institution.
2. A 3.00 GPA.

Other required application materials include a GMAT, LSAT, GRE test score or a petition to waive (if the applicant has five or more years of industry relevant experience), three letters of recommendation and a personal statement.

Contact:
School of Architecture and Landscape Architecture
http://www.mred.asu.edu
mred@asu.edu
CAM
480/965-8517
Sculpture (MFA) FASCULPMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Sculpture)

Program Description: Hard-to-find opportunities to work in neon, study electronics and kinetics in sculpture, or cast in iron, bronze and aluminum all are offered here. A couple of filmmaking courses and one in clay animation are also offered. Combine these with woodworking, metal fabrication, installation and public art, and you have a program with something for everyone. While classes run the gamut of the contemporary sculpture environment, there also is an emphasis on helping students put today’s creations in the context of the history of sculpture. Other opportunities include personal studio space for advanced undergraduate students and visiting artists who provide lectures and one-on-one critiques of student’s work.

Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration.
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement MFA work (nonstudio courses).
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art.
4. Ten to 15 hours of ART 680 Practicum, resulting in an MFA exhibition.

Admission Requirements: All applicants must submit the Graduate College online application. A bachelor’s degree from a college or university recognized by ASU is required. All students applying for the M.F.A. must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. A statement of intent pertaining to the student’s educational objectives.

Contact:
School of Art
http://art.asu.edu
ART 102
480/965-6303

Theatre (MA) FATHEAMA
Herberger Institute for Design and the Arts
Official Degree Awarded: MA Theatre

Program Description: The M.A. in theatre introduces students to graduate-level study in the history, theory and practice of theatre. It is designed for individuals who wish to prepare to enter a Ph.D. program, for K-12 teachers seeking to expand their knowledge of theatre, and for returning students interested in learning more about theatre scholarship and performance.

Program Requirement: The program requires 30 credit hours:

1. Twenty-four credit hours of graduate course work (nine credits of required courses and 15 credits of electives).
2. Six credit hours devoted to a final project chosen by the student and approved by the student's faculty committee.
3. Students may choose to complete an additional six credit hours of courses in lieu of the final project.

Admission Requirements: Students must fulfill both the requirements of the Graduate College and those of the School of Theatre and Film. The deadline for application to the School of Theatre and Film is Feb. 15.

Students should provide:

A statement of purpose—this should address the student's background and experiences as they relate to their reasons for pursuing the master's degree, describe their research interests and indicate future career goals.

1. A current curriculum vitae.
2. A sample of scholarly writing.
3. Three letters of recommendation from professionals familiar with their work.

Contact:
http://theatrefilm.asu.edu/
thegment@asu.edu
GHALL 232
480/965-5337

Theatre (Dramatic Writing) MFA FADRWRTMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Theatre (Dramatic Writing)

Program Description: The concentration in dramatic writing within the theatre M.F.A. will include course work in playwriting, historical studies in theatre, dramatic theory, directing new work, teaching, literary management, electives and related topics such as writing for solo performance, screenwriting, devising and collaborative writing.
The School of Theatre and Film's support for the production of new plays and performance works written by its M.F.A. students, is an aspirational model for other institutions.

Program Requirement: The M.F.A. in theatre with a concentration in dramatic writing is a 60-credit-hour program composed of the following:

1. Required core courses: 27 credit hours.
2. Required concentration courses: nine credit hours.
3. Elective courses: 18 credit hours
4. Applied project: six credit hours

The student will write a thesis play as their applied project, which will be developed as one of the following:

- A full production on the school’s main stage.
- A workshop production.
- A staged reading.

Admission Requirements: Applicants must meet all admission requirements of the Graduate College. In addition, applicants should have an undergraduate major in English or theatre, with a GPA of 3.00 or above (4.00 scale). If an applicant does not have an undergraduate major in English or theatre, the student may be admitted on the basis of excellent creative and academic work. Potential students must submit an online application to the Graduate College.

Applicants must also submit the following:

1. Three letters of recommendation.
2. Current resume.
3. Statement of career goals.
4. Manuscript sample of 30 or more pages of drama.

Contact:
School of Theatre and Film
http://theatrefilm.asu.edu
theatre@asu.edu
GHALL 232
480/965-5337

Theatre - Interdisciplinary Digital Media (MFA) FATHEADMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Theatre (Interdisciplinary Digital Media)

Program Description: This graduate degree concentration is offered through the School of Theatre and Film in collaboration with the Arts, Media and Engineering Program (AME). It focuses on the growing importance of digital media as a way of both making art and thinking about art. AME program courses and research
activities prepare students to become sophisticated developers, makers, evaluators and entrepreneurs of digital media, while at the same time completing a sequence of core courses in theatre.

*Program Requirement:* The 60 credit hour program includes:

1. Twenty-four hours of core courses in theatre theory, history and practice.
2. A minimum of 18 hours in core AME courses, to be selected in consultation with each student’s AME graduate advisor.
3. Fifteen hours in research and applied project credits. The overall course of study is developed with the advisor to ensure a breadth of transdisciplinary knowledge.

*Admission Requirements:* Students must fulfill the requirements of the Graduate College and those of both the School of Theatre and Film and the Arts, Media and Engineering program. The deadline for application to the School of Theatre and Film is February 15, but please note that for financial aid purposes, the AME deadline is Feb. 1.

The School of Theatre and Film requires the following additional application materials for the M.F.A. in integrated digital media:

1. A statement of purpose detailing the applicant’s background in theatre, as well as the applicant’s interest in and suitability for work in the interdisciplinary of theatre and digital media.
2. A portfolio of materials that support the statement of purpose (writing samples, electronic performance materials, etc.).
3. A current resume.
4. Three letters of recommendation from professionals familiar with the applicant’s work.

*Contact:*
School of Theatre and Film
http://theatrefilm.asu.edu/
theatre@asu.edu
GHALL 232
480/965-5337

*Theatre Performance (MFA) FAPERFMFA*
Herberger Institute for Design and the Arts

*Official Degree Awarded:* MFA Theatre (Performance)

*Program Description:* The M.F.A. in theatre with a concentration in performance program readies students for the changing roles of theatre and the performing artist. The School of Theatre and Film offers an approach to training that includes, but goes beyond, traditional actor training. Skills are emphasized for approaching and creating new work, developing artistic entrepreneurship and performance
applications in multimedia, interdisciplinary collaboration, artistic integrity and social responsibility.

Admission to the directing, performance and performance design concentrations is cohort-based. We will accept applications for these concentrations for the 2011 academic year beginning in Fall 2010.

Program Requirement: The M.F.A. in theatre with a concentration in performance is a three-year, 60 credit-hour program.

- The first year is dedicated to individual skill and ensemble building.
- Second-year training further develops the artist’s skills in exploring texts and the worlds they emerge from and help to create; understanding the complexity and dramatic potential inherent in language; encouraging bold and courageous choices; and developing new work that will culminate in a tour.
- The third year serves as a bridge between the educational and professional worlds and the communities they serve.

Students conclude their graduate studies with an applied performance project, specifically suited to their needs and interests. Academic and artistic progress is evaluated at the end of each semester by a faculty committee. Program continuation is contingent upon a successful review.

Admission Requirements: Students are admitted to this program every three years, forming a cohort with their colleagues in the other M.F.A. programs in theatre practice. The next class will begin course work in 2011. Students must fulfill both the requirements of the Graduate College and those of the School of Theatre and Film. The deadline for application to the School of Theatre and Film is Feb. 15.

The School of Theatre and Film requires additional application components for the M.F.A. in theatre (performance):

1. An audition.
2. An interview, either on campus or at one of the University/ Resident Theatre Association sites.
3. A statement of purpose.
4. A current resume.
5. Three letters of recommendation from professionals familiar with the student’s work.

Contact:
School of Theatre and Film
http://theatrefilm.asu.edu
theatre@asu.edu
GHALL 232
480/965-4495
Theatre for Youth (MFA) FAYOUTHMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Theatre (Theatre For Youth)

Program Description: This M.F.A. program offers comprehensive course work in all areas of theatre for youth, renowned faculty, superb facilities, practical experience working in drama and theatre with and for young people and a challenging and supportive atmosphere ideal for educating future leaders in the field.

Program Requirement: The M.F.A. in theatre (theatre for youth) is a three-year, 60 credit hour program. Required core courses are supplemented by elective courses in an emphasis area. The emphasis areas prepare students for careers in professional theatre, as artists or education directors, specialists in arts organizations, or as teachers in elementary or secondary education. An internship with a professional theatre company, school or arts organization, and a final applied project, complete the program.

Admission Requirements: Students must fulfill both the requirements of the Graduate College and those of the School of Theatre and Film. The deadline for application to the School of Theatre and Film is Feb. 15.

The School of Theatre and Film requires the following additional application components for the M.F.A. in theatre (theatre for youth):

1. An interview.
2. A statement of purpose, including a cover letter indicating the preferred area of study, summarizing the applicant's qualifications, artistic vision and how the applicant feels the M.F.A. theatre for youth program can help meet his or her goals.
3. A current resume.
4. Three letters of recommendation from professionals familiar with the applicant's work.

Contact:
School of Theatre and Film
http://theatrefilm.asu.edu
theatre@asu.edu
GHALL 232
480/965-5337

Theatre for Youth (PhD) FAYOUTHPHD
Herberger Institute for Design and the Arts

Official Degree Awarded: PHD Theatre (Theatre For Youth)

Program Description: This Ph.D. degree program is designed to give students a broad knowledge of theatre, special research, production and teaching skills in
theatre for youth. Studies include theatre history, theory and literature, theatre education and the theories and principles governing how young people learn to create and respond to theatre.

Each theatre for youth Ph.D. student follows a course of study including required and elective classes to demonstrate general literacy in theatre history, criticism and literature as well as in-depth understandings and research perspectives in theatre and drama with and for young people.

Students may take courses in directing, acting, design, playwriting, theatre history and theatre theory and criticism. Tutorial courses with major professors are encouraged, as is graduate study in other departments offering courses in research methods, educational theory, critical theory and arts education.

**Program Requirement:** A total of 90 credit hours, of which 30 may be fulfilled with a completed master’s degree, are required. The concentration in theatre for youth requires:

1. A core of 30 credit hours.
2. Twenty-four credit hours in research and dissertation preparation.
3. Six credit hours of research methodology, approved by the supervisory committee.
4. Or successful examination in a foreign language approved by the committee.

In meeting these requirements, students, with the advice of the supervisory committee, may select theatre courses in areas such as:

- Community-based theatre.
- Theatre education.
- Theatre for social change.
- Theatre history.
- Theatre theory/criticism.
- Tutorial courses.

Students may also take courses outside the School of Theatre and Film in areas such as:

- Area studies.
- Aesthetic theory.
- Children's literature.
- Critical and cultural studies.
- Educational theory and methodology.
- Languages and literatures.
- The arts and arts education.

All activities are selected to help students meet the goals of the program and develop the capability of becoming leaders in the field.
**Preliminary Reviews**
Reviews of a student's performance in courses and development of research skills, artistic skills and teaching competencies are conducted by the supervisory committee at the end of each semester.

**Comprehensive Examinations**
These examinations are composed of written and oral components centering on theatre history, literature and criticism, theatre for youth and theatre education and the research area.

**Dissertation Requirements**
A dissertation based on original research work of high quality, demonstrating proficiency in the student’s special field, is required.

*Admission Requirements*: Students must fulfill both the requirements of the Graduate College and those of the School of Theatre and Film. The deadline for application to the School of Theatre and Film is Jan. 15. The School of Theatre and Film requires additional application components for the Ph.D. in theatre (theatre for youth):

1. An interview is strongly recommended.
2. A statement of purpose, which should explain the applicant's research, artistic and educational philosophies and goals, as appropriate to the applicant's desired focus in the Ph.D. program; explain also how study in the ASU Theatre for Youth program might particularly suit these goals/philosophies).
3. A current curriculum vitae.
4. A sample of scholarly writing.
5. Three letters of recommendation from professionals familiar with the applicant's work; these letters should address specifically the applicant's potential for success in a Ph.D. program.

*Contact:*
School of Theatre and Film
http://theatrefilm.asu.edu/
theatre@asu.edu
GHALL 232
480/965-5337

**Theatre: Directing (MFA) FADIRMFA**
Herberger Institute for Design and the Arts

*Official Degree Awarded*: MFA Theatre (Directing)

*Program Description*: Admission to the directing, performance and performance design concentrations is cohort-based. We will accept applications for these concentrations for the 2011 academic year beginning in fall 2010.
The M.F.A. in theatre with a concentration in directing program seeks students who demonstrate directing talent, scholastic achievement, and preferably, practical experience in the professional theatre. The program focuses on the collaborative process necessary for new work development. Students are introduced to varied critical viewpoints from select artists and scholars. A hands-on, mentor-student approach is emphasized with the intent of developing the skill, craft and attitude, including interpersonal communication skills, required to be an excellent professional director.

Program Requirement: The M.F.A. in theatre with a concentration in directing is a three-year, 60 credit hour program. Practical directing and directing classes are approximately 50 percent of the course work. Classes include:

- Acting.
- Adaptation.
- Assistant directing for professional directors working on the main stage and a Theatre for Young America tour practicum.
- Community-based ensemble.
- Design collaboration.
- Dramatic theory and criticism.
- Dramaturgy.
- Movement.
- Performance technology.
- Theatre for social change.
- Theatre history.
- Theatre organization and management.
- Voice.

M.F.A. directors will direct new work every year. Major assignments may include: directing a new full-length play by an M.F.A. playwright, creating and directing an adaptation of an existing work in the Prism Theatre and directing one applied project in the main-stage season. Directing faculty mentor all projects. Academic and artistic progress is evaluated at the end of each semester by a faculty committee. Program continuation is contingent upon a successful review.

Admission Requirements: Students are admitted to this program every three years, forming a cohort with their colleagues in the other M.F.A. programs in theatre practice; the next class will begin course work in 2011. Students must fulfill both the requirements of the Graduate College and those of the School of Theatre and Film. The deadline for application to the School of Theatre and Film is Feb. 15.

In addition to the requirements outlined on the Graduate College Web site, the School of Theatre and Film requires additional application components for the M.F.A. in directing, including:
1. A personal interview.
2. A statement of purpose.
3. A current resume.
4. Three letters of references from professionals familiar with the student’s work.
5. A written approach to a play selected by the reviewing committee.

Contact:
School of Theatre and Film
http://theatrefilm.asu.edu
theatre@asu.edu
GHALL 232
480/965-5337

Theatre: Performance America (PhD) FAPERAMPHD
Herberger Institute for Design and the Arts

Official Degree Awarded: PHD Theatre (Theatre/Performance Americas)

Program Description: The Ph.D. in theatre, with a concentration in theatre and performance of the Americas, trains scholars to examine the histories, theories and practices associated with cultural performance, from a hemispheric point of view. Through course work, seminars and research and study opportunities, doctoral students work from diverse critical perspectives that mobilize thought across geographical and disciplinary borders. They thereby develop skills to re-examine and interrogate the canon of theatre as text and as performance, expanding the traditional boundaries of theatre studies in two ways:

1. Via a perspective that considers the shared histories and practices of theatre and performance in the Americas as central to an intervention in traditionally narrated histories and theories of theatre.
2. Via the methodologies of cultural and performance studies that accommodate other forms of embodied expression related to but distinct from formal theatrical expression.

The course of study is designed to provide substantive historical and theoretical grounding in the field, while allowing flexibility in the choice of specialized seminar and practical experiences. The first year of study immerses students in the theoretical and practical groundwork of performance research in general, and modalities of performance in the Americas in particular. In the second year, students build on research interests identified in the first year through specialized course work and practical experience.

Program Requirement: A total of 90 credit hours are required; 30 of the 90 hours may be satisfied through a completed master’s degree.

The concentration in theatre and performance of the Americas consists of:
1. A core of 24 hours.
2. Twelve hours of electives, two of which must come from outside the school (as approved by the supervisory committee).
3. Twenty-four hours of research and dissertation preparation.

In meeting these requirements, students, with the advice of the supervisory committee, may select theatre courses in areas such as:

- Dramaturgy
- Community-based theatre
- Theatre for social change
- Theatre history
- Theatre theory/criticism
- Tutorial courses

Students may also take courses outside the School of Theatre and Film in areas such as critical and cultural studies, area studies, languages and literatures and aesthetic theory. All activities are selected to help students meet the goals of the program and develop the capability of becoming leaders in the field.

**Preliminary Reviews**
Reviews of the student's performance in courses and development of research skills, artistic skills and teaching competencies are conducted by the supervisory committee at the end of each semester.

**Comprehensive Examinations**
These examinations are composed of written and oral components centering on theatre history, literature and criticism, theatre and performance of the Americas and the research area.

**Dissertation Requirements**
A dissertation based on original high-quality research work, demonstrating proficiency in the student’s special field, is required.

*Admission Requirements*: Students must fulfill both the requirements of the Graduate College and those of the School of Theatre and Film. The deadline for application to the School of Theatre and Film is Jan. 15.

The School of Theatre and Film requires additional application components for the Ph.D. in theatre (theatre and performance of the Americas):

1. An interview is strongly recommended.
2. A statement of purpose, which should address the student’s background and experiences as they relate to the student’s reasons for pursuing the Ph.D.; describe the student’s research interests; and indicate future career goals.
3. A current curriculum vitae.
4. A sample of scholarly writing.
5. Three letters of recommendation from professionals familiar with the student's work.

Please note that we only accept students who have already earned a master's degree in a relevant area.

Contact:
School of Theatre and Film
http://theatrefilm.asu.edu
theatre@asu.edu
GHALL 232
480/965-5337

Theatre: Performance Design (MFA) FAPERDMFA
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Theatre (Performance Design)

Program Description: Admission to the directing, performance and performance design concentrations is cohort-based. We will accept applications for these concentrations for the 2011 academic year beginning in fall 2010.

ASU offers a strenuous and innovative M.F.A. in theatre with a concentration in performance design program that focuses on a non-traditional approach to design training in preparation for the theatrical design challenges of the future. The design student is not asked to choose one sub-discipline of performance design, but rather will work with an ensemble of designers, directors and performers to create new projects that redefine the role of the traditional designer.

Skills for approaching and creating new work include:

- Design applications in multimedia.
- Development of artistic entrepreneurship and integrity.
- Drafting and computer imaging.
- New work development.

Performance design students work in multiple venues, including the 481-seat Galvin Playhouse, 164-seat Lyceum Theatre, two studios and one experimental space. In addition, students work in the shops, a design studio and a computer-imaging lab.

Program Requirement: The M.F.A. in design is a three-year, 60 credit hour program.

- The first year is dedicated to creating an ensemble, as well as honing the skills needed to visually communicate ideas to a director and audience.
- The second year concentrates on new work development that will culminate in a tour. This year also concentrates on strengthening design abilities.
- The third year serves as a bridge between the educational and professional theatre and the communities they serve.
- Students conclude with an applied ensemble design project suited to their needs and interests.
- A professional internship is required and can be fulfilled anytime after the first year of study.

Academic and artistic progress is evaluated at the end of each semester by a faculty committee. Program continuation is contingent upon a successful review.

Admission Requirements: Students are admitted to this program every three years, forming a cohort with their colleagues in the other M.F.A. programs in theatre practice; the next class will begin course work in 2011. Students must fulfill both the requirements of the Graduate College and those of the School of Theatre and Film. The deadline for application to the School of Theatre and Film is Feb. 15.

The School of Theatre and Film requires additional application components for the M.F.A. in performance design:

1. A personal interview.
2. A portfolio of ten samples of visual work to be presented at interview.
3. A written statement of purpose.
4. A current resume.
5. Three letters of recommendation from professionals familiar with the student’s work.

Contact:
School of Theatre and Film
http://theatrefilm.asu.edu
theatre@asu.edu
GHALL 232
480/965-5337

Urban Design (MUD) ARMUDMUD
Herberger Institute for Design and the Arts

Official Degree Awarded: MUD Urban Design

Program Description: The M.U.D. is a multidisciplinary program within the Herberger Institute for Design and the Arts. The curriculum draws from the disciplines of architecture, landscape architecture, law, civil engineering, planning, public programs, real estate development and the first School of Sustainability in the United States. The program leverages its local conditions (rapidly urbanizing metropolis, arid climate, New American University) toward the development of responsible global initiatives and innovative design strategies for urban environments. The curriculum is built around the analysis and understanding of contemporary urban conditions specific to rapidly urbanizing and arid regions of the world. Students are encouraged to pursue a joint degree with the school’s Master of Science in Building Design.
Applicants who hold a professional design degree (B.S.L.A., M.L.A., B.Arch. or M.Arch.) will be considered for the two-year M.U.D. program. Applicants who do not have a background in design will be considered for admission to a three-year M.U.D. program that includes an initial year of design studies. The M.U.D. is a post-professional, nonaccredited program.

Program Requirement:

Master of Urban Design (MUD) Degree Requirements:

First Year

   Fall
   MUD 521 Advanced Urban Design Studio I (5)
   MUD 598 Urban Issues (3)
   ATE 598 Sustainability of the Built Environment (3)

   Spring
   MUD 522 Advanced Urban Design Studio II (5)
   MUD 524 Urban Elements (3)
   Herberger Institute professional design elective (3)

   Summer
   MUD 610 Applied Urban Design Research Project (1)
   or MUD 611 Professional Honors

Second Year

   Fall
   MUD 621 Advanced Urban Design Studio III (5)
   MUD 623 Thesis Research (3)
   Herberger Institute professional design elective (3)

   Spring
   MUD 622 Advanced Urban Design Studio IV (5)
   Herberger Institute professional design elective (3)
   Urban design professional elective (3)

Total Hours in Program: 45

Admission Requirements:
Master of Urban Design Admission Requirements

Applicants who hold a professional design degree (B.S.L.A., M.L.A., B.Arch. or M.Arch.) will be considered for the two-year M.U.D. program. Applicants who do not have a background in design will be considered for admission to a three-year M.U.D. program that includes an initial year of design studies. The M.U.D. is a post-professional, nonaccredited program.

Two-Year Program Admission Requirements

Applicants must:

1. Hold an undergraduate or graduate degree from a college or university recognized by ASU.
2. Be a licensed landscape architect or architect, or have completed a Landscape Architectural Accreditation Board (LAAB) accredited four-year B.S. in landscape architectural studies or an LAAB-accredited M.L.A.; or a National Architectural Accrediting Board (NAAB) accredited four-year B.S. in architectural studies or an NAAB-accredited M.Arch.
3. Meet the minimum GPA requirements as established by the Graduate College.
4. Provide an official copy of GRE scores (unofficial copies will not be accepted). For more information regarding the GRE, visit http://www.gre.org. The School of Architecture and Landscape Architecture does not have a minimum score for admissions, however, the average scores of admitted students are between 500-600 for each section.

In addition to the above requirements, international students are required to submit an official TOEFL score (http://www.TOEFL.org). The minimum score for admission to the program is 100 (Internet), 250 (computer-based), or 600 (paper-based). Other information for International applicants can be found on the Graduate College Web site http://graduate.asu.edu/admissions/international.html.

Admission Documents

1. Applicants should write their name in a clear and consistent manner on all materials submitted, preferably in the “family name, first name” format (e.g. Smith, John).
2. Statement of Intent. A personal narrative (maximum 600 words or two pages typed) indicating the applicant’s interest, previous academic and practical background, as well as personal and professional educational objectives.
3. Letters of Recommendation. A minimum of three letters of recommendation in support of the applicant must be mailed directly to the graduate admissions committee, School of Architecture and Landscape Architecture. The references should be from professionals or educators familiar with the applicant’s experience and capability for graduate work.
4. Portfolio. Candidates applying for the two-year Master of Urban Design program are required to submit a portfolio. See the portfolio requirements for more information.

5. Please complete and submit the contact information sheet.

Submit the statement of intent, recommendation letters, portfolio and the contact information sheet to the following address:

Master of Urban Design Admissions Committee  
School of Architecture and Landscape Architecture  
Arizona State University  
P.O. Box 871605  
Design North, room 162  
Tempe, AZ 85287-1605  

Submit your online application and fees, test scores (GRE or TOEFL) and official transcripts from all post-secondary institutions directly to the Graduate College.

Three-Plus-Year Program Admission Requirements

Applicants must:

1. Submit an online Graduate College application.
2. Hold an undergraduate or graduate degree from a college or university recognized by ASU. Applicants who do not hold a professional degree in designing (B.S.L.A., M.L.A., B.Arch. or M.Arch.) must have extensive professional work experience in an urban design-related area.
3. Meet the minimum GPA requirements as established by the Graduate College.

Contact:
School of Architecture and Landscape Architecture  
http://design.asu.edu/sala/index.shtml  
sala.grad@asu.edu  
CDN 162  
480/965-3536

Wood (MFA) FAWOODMFA  
Herberger Institute for Design and the Arts

Official Degree Awarded: MFA Art (Wood)

Program Description: The graduate years are seen as a time for searching, experimenting and for developing a high degree of professionalism in creative work. The Herberger College of the Arts offers one of the best equipped fine woodworking shops in the Southwest. It includes equipment for laminating, carving, turning and fabricating.
Program Requirement: A minimum of 60 hours of graduate credit subject to committee approval is required, including:

1. Twenty-seven to 32 graduate studio credit hours in the major area(s) of concentration.
2. Six credit hours of graduate-level art history and three credit hours of other interdisciplinary graduate credit to supplement M.F.A. work (nonstudio courses).
3. Nine credit hours of graduate-level course work outside of the major area of concentration, of which three credit hours must begin with the ART prefix and the remaining six credit hours may be outside the School of Art.
4. Ten to 15 hours of ART 680 Practicum, resulting in an M.F.A. exhibition.

Admission Requirements: All applicants must submit the Graduate College online application. A bachelor's degree from a regionally accredited college or university recognized by ASU is required. All students applying for the M.F.A. degree must submit to the graduate coordinator:

1. A portfolio of images of their work on a CD-ROM disk containing 20 JPEG files (1000 pixels in the long dimension) or 20 images assembled as a PowerPoint presentation.
2. Three letters of recommendation.
3. A current curriculum vitae.
4. A statement of intent pertaining to the student’s educational objectives.

Contact:
School of Art
http://art.asu.edu
ART 102
480/965-6303

Education, Mary Lou Fulton Institute and Graduate School of

An Overview of Autism Spectrum Disorders (Grad Certificate) EDSPEGRCA

Official Degree Awarded: CERT An Overview of Autism Spectrum Disorders (certificate)

Program Description: The program prepares participants with the latest information and practical techniques to understand and serve those with Autism Spectrum Disorders (ASD). This 15-credit hour program uses both in-class and online sessions to prepare students for the challenges of working with individuals with ASD. The ASD certificate consists of four classes and a practicum. The practicum provides an opportunity to use new knowledge and skills in a real world setting consistent with the student’s interests and abilities.

The ASD graduate certificate is designed for individuals who:
• Are committed to providing services to children, youth and adults who fall under the ASD umbrella.
• Hold a bachelor’s degree or higher.
• Meet ASU graduate admissions criteria.
• Are interested in a graduate certificate in ASD, but not in pursuing a formal graduate program.
• Are interested in a graduate certificate in ASD, and are also pursuing a formal graduate program.

Program Requirement: The ASD certificate consists of four classes and a practicum for a total of 15 hours. The practicum provides an opportunity to use new knowledge and skills in a real world setting consistent with the student’s interests and abilities.

SPE 521 Introduction to Autism Spectrum Disorders (3), offered spring and summer
SPE 531 Behavior Management Approaches (3), offered fall
SPE 577 Inclusive Teaching and Learning (3), offered spring
SPE 580 Practicum (3), offered summer and fall
SPE 598 Reading and Communication Strategies for Individuals with Autism and Related Disorders (3), offered fall

Admission Requirements: All applicants must submit the Graduate College online application and meet all Graduate College admission requirements.

Contact:
Adv Stud Learning, Technology & Psychology in Ed T
http://education.asu.edu/
cnigrad@asu.edu
ED 434
480/965-4602

Applied Linguistics (PHD) EDAPLPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Applied Linguistics

Program Description: Applied linguistics combines research topics in the linguistic sciences and education to pursue principled approaches to language-related concerns. Applied Linguistics at ASU is focused on simultaneous and developmental bilingualism in children and adolescents. The program is a partnership between the Mary Lou Fulton Institute and Graduate School of Education and the College of Liberal Arts and Sciences.

Program Requirement: The program requires a total of 84 credit hours. There must be a minimum of 54 credit hours beyond the master’s level, including a minimum of 12 units of dissertation credit. All students in the program must satisfy 21 units of foundations course work.
Because applied linguistics is interdisciplinary in nature, applicants may differ from one another with regard to their prior experience and preparation. For instance, while some applicants may have substantial prior training in core theoretical linguistics (foundations), others may have considerable preparation in an area related to a supported concentration. A student’s academic advisor, in consultation with the program director and program oversight committee, may address potential redundancies in a student’s program requirements with prior academic preparation by: (1) allocating a maximum of 30 credit hours from an awarded and approved graduate degree toward the applied linguistics program requirements, and/or (2) permitting the student to take additional elective courses in lieu of introductory courses covered in an undergraduate program.

A. Foundations, 21 credit hours
   1. Overview of the field: a three-credit course providing a survey of the field of applied linguistics.
   2. Linguistics: 15 credits of required coursework in theoretical linguistics and one approved linguistics elective.
B. Teaching Internship, 2 credit hours
C. Colloquia, 4 credit hours
   A four-semester sequence of 1-credit colloquium meetings for students in the first two years. All students and program faculty are encouraged to attend.
D. Research Methods, 6 credit hours
   Six credits of approved research methods courses selected in consultation with the advisor.
E. Concentration/Research, 33 credit hours
   Students select three to nine credits of required coursework, depending upon the concentration area, plus additional approved electives for a total of 48 credits of concentration/research course work. Five concentration areas are supported:
   - Bilingualism.
   - Educational Linguistics.
   - English as an International Language (EIL).
   - Indigenous Language Education.
   - Language Planning and Policy (LPP).
F. Breadth, 6 credit hours
   Six credits of course work in a secondary concentration area.
G. Dissertation, 12 credit hours
   Students in the applied linguistics doctoral program are additionally required to demonstrate proficiency in a second language equivalent to two years of study. A language appropriate to the student’s area of interest is selected in consultation with the advisor. The language requirement must be satisfied, by examination or course work, prior to advancement to candidacy.
languages may not be used to satisfy this requirement. Students for whom English is a second language may use their first language to satisfy the requirement by examination. Course credit used to satisfy the language requirement cannot be used to satisfy other program requirements, and cannot be counted toward the total required 84 credits.

**Admission Requirements:** Students must have completed a bachelor’s degree from a regionally accredited institution or university of recognized standing prior to admission into the program. Because applied linguistics is an interdisciplinary field, applicants with prior academic preparation in any field are welcome.

Applicants must submit an official ASU graduate application, official GRE scores and transcripts of all undergraduate and graduate coursework, a statement of interest outlining career and research goals, three letters of recommendation addressing their academic promise for the program, and other materials requested as part of the application portfolio.

Applications are due Jan. 15 for fall admission.

Please see the program Web site for additional information.

**Contact:**
Dean, Mary Lou Fulton Inst Grad School Education
http://appliedlinguistics.asu.edu/
cnigrad@asu.edu
ED 434
480/965-4602

**Art Education (PhD) EDARTEDPHD**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** PHD Curriculum and Instruction (Art Education)

**Program Description:** The concentration in art education in the interdisciplinary Ph.D. program in curriculum and instruction provides opportunities for research and study in one or more of the following areas:

- Transfer in thematic inquiry-based instruction in art education.
- Qualitative research.
- Multiple methodologies in research.
- The understanding of art.
- Online-based instruction.
- Visual culture studies.
- International issues in art education.
- Multicultural issues.
- Developmental graphic stages of children.
Program Requirement: The Ph.D. requires 84 credit hours, a dissertation and written and oral comprehensive examinations.

Core Requirements: six credit hours

- DCI 701 Curriculum Theory and Practice
- DCI 702 Interdisciplinary Research Seminar in Curriculum and Instruction

Professional Inquiry and Analysis: 15 credit hours in approaches to education research

Examples of courses that meet this requirement are:

- COE 502 Introduction to Quantitative Methods
- COE 503 Introduction to Qualitative Methods
- DCI 691 Narrative Research in Education
- DCI 791 Discourse Analysis

Major Area of Concentration: 30 credit hours

Internships: six credit hours
Three two-credit-hour doctoral internships are required in the areas of research and college teaching. One area must be chosen twice. During the course of the internship, the student works closely with selected art education program faculty members from the interdisciplinary committee on curriculum and instruction, or other faculty members designated by the interdisciplinary Ph.D. program in curriculum and instruction.

Cognate Study: 12 credit hours
Twelve credit hours are required of students to broaden their understanding of the conceptual base and issues underlying the field of art. Students will take course work outside of art education. Cognate studies can be drawn from a broad range of offerings, both from within and outside the College of Education.

Independent Research and Dissertation: a minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

These credit hours demonstrate that the student is capable of conducting original research of high quality. The research is to be conceived and carried out such that it advances scholarship in art education.

Doctoral students are also encouraged to participate in the Preparing Future Faculty Program offered by the Graduate College of Arizona State University. This program consists of two credit hours in which students learn faculty roles and responsibilities and participate in an ongoing series of integrative and collaborative seminars coordinated with the Graduate College. Students have the opportunity to
develop and participate in interdisciplinary teaching, research and service activities.

The broad goals of the interdisciplinary Ph.D. program in curriculum and instruction are to:

1. Produce research scholars who can enhance the knowledge base underlying curriculum and instruction in a variety of concentrations.
2. Provide experts, for all levels of instruction, in the design, implementation and evaluation of educational personnel preparation programs.
3. Prepare individuals who can provide leadership to the evolving field of curriculum and instruction.
4. Produce research scholars who are well equipped for empirical and systematic examination of educational theories, strategies, principles and practices related to the content and organization of curriculum and to the process and outcome of instruction.

The program also seeks to produce scholars who have the knowledge base to engage in such studies within the broad historical, social, political, economic, linguistic, intellectual and physical contexts in the country and abroad.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate programs.

Additional materials may be required to gain admission into certain programs or cohorts.

Contact:
http://education.asu.edu/prospective_students/graduate_studies
cnigrad@asu.edu
ED 434
480/965-4602

Bilingual Education (MA) EDBILINMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Curriculum and Instruction (Bilingual Education)

Program Description: The M.A. in curriculum and instruction is intended for students wishing to conduct original research and continue on for the Ph.D. The M.A.
concentration in bilingual education is designed to provide course work related to bilingual education in U.S. settings (second language acquisition theory, bilingual programs and methods and bilingual assessment) along with course work in research methods to be used in the design and implementation of the thesis. The bilingual education concentration offers advanced course work in research methodology, theory and practice in the area of bilingual education. Candidates for the M.A. in bilingual education must be able to demonstrate proficiency in a language other than English.

Program Requirement: The M.A. in curriculum and instruction is intended for students wishing to conduct original research and continue on for the Ph.D. The M.A. concentration in bilingual education requires 30 credit hours designed to provide course work related to bilingual education in U.S. settings (second language acquisition theory, bilingual programs and methods and bilingual assessment) along with course work in research methods to be used in the design and implementation of the thesis. The bilingual education concentration offers advanced course work in research methodology, theory and practice in the area of bilingual education. Candidates for the M.A. in bilingual education must be able to demonstrate proficiency in a language other than English.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicants potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts. For specific information regarding admission requirements, see http://education.asu.edu/prospective_students/graduate_studies.

Contact:
Dean, Mary Lou Fulton Inst Grad School Education
http://education.asu.edu/
cnigrad@asu.edu
ED 434
480/965-4602

Bilingual Education (MEd) EDBILINMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (Bilingual Education)

Program Description: The M.Ed. in curriculum and instruction with a concentration in bilingual education is designed for practitioners to facilitate the development of advanced professional knowledge of research, theory and practice in the area of bilingual education. The M.Ed. in curriculum and instruction is intended for students
who are currently teaching in a bilingual program, typically at the K-8 level of education. The M.Ed. in curriculum and instruction with a concentration in bilingual education is designed to provide course work related to bilingual education in U.S. settings (second language acquisition theory, bilingual programs and methods and bilingual assessment). Candidates for the M.Ed. in curriculum and instruction with a concentration in bilingual education must be able to demonstrate proficiency in a language other than English.

*Program Requirement:* A minimum of 30 hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity (written examination, research project or applied project) in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project, must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

*Admission Requirements:* The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicants potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts. For specific information regarding admission requirements, see [http://education.asu.edu/prospective_students/graduate_studies](http://education.asu.edu/prospective_students/graduate_studies).

*Contact:*
Dean, Mary Lou Fulton Inst Grad School Education
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cnigrad@asu.edu
ED 434
480/965-4602

**Counseling (MC) EDCOUNMC**
Mary Lou Fulton Institute and Graduate School of Education

*Official Degree Awarded:* MC Counseling

*Program Description:* The mission of the M.C. program is to prepare students to become professional counselors, culturally competent to work with diverse clientele in a variety of community settings in Arizona and other states. Counselors seek to
prevent or treat psychological problems and to promote the health of individuals, families, groups and organizations in a multicultural and diverse society. The M.C. program was designed according to the standards for community counseling by the Council for the Accreditation of Counseling and Related Educational Programs.

The faculty has endorsed the multicultural counseling competencies of the American Counseling Association, the guidelines on multicultural education, training, research, practices and organizational change for psychologists, and the guidelines for psychotherapy with lesbian, gay and bisexual clients of the American Psychological Association.

*Program Requirement:* The M.C. is a 60-credit-hour professional program. The program can be completed in no less than two years. Most students can complete the program in two to three years. The program is not designed to be a part-time program.

The practitioner option places considerable emphasis on supervised field experiences. A comprehensive exam is required to complete this option.

The research option places considerable emphasis on developing research competencies. Successful completion of a master's thesis is required in this option. The school counseling option provides added training in issues related to counseling in the schools (K-12 education). Considerable emphasis is placed on supervised experience in the schools.

*Admission Requirements:* Applicants to this program must first meet the Graduate College requirements for admissions (e.g., minimum 3.00 junior/senior GPA and English language proficiency). Psychology in education further requires that all applicants score at least 5.5 on the Frick index. Applicants are required to take the verbal and quantitative sections of the GRE. The test must be retaken if scores are more than five years old. All students must be graduates of accredited higher education institutions.

*Nonacademic/Professional/Life Experiences*  
Applicants are required to submit a three- to five-page personal statement which will include information on significant life experiences, professional experiences, personal attributes, personal and professional goals and other information which will assist the faculty in evaluating the applicant.

*Recommendations*  
Three recommendation forms are to be submitted. These should be completed by persons able to evaluate the applicant's academic potential, professional experience and personal attributes.

For more information see http://education.asu.edu/mc.
Contact:
Adv Stud Learning, Technology & Psychology in Ed T
http://education.asu.edu
dpe@asu.edu
EDB 302
480/965-3384

Counseling Psychology (PhD) EDCPSYPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Counseling Psychology

Program Description: The doctoral program in counseling psychology closely adheres to the scientist-practitioner training model in preparing graduates for employment in academic and service delivery settings. Although faculty interests are diverse, there is a common emphasis on empirical data as the basis for professional practice. The faculty has endorsed the multicultural counseling competencies of the American Counseling Association, the guidelines on multicultural education, training, research, practices and organizational change for psychologists, and the guidelines for psychotherapy with lesbian, gay and bisexual clients of the American Psychological Association (APA).

The program is committed to the scientist practitioner model. One manifestation of that commitment, is the three complementary functions of the program’s counselor training center, namely service delivery, clinical training and research. Research foci include: multiculturalism, at-risk populations, positive psychology, process/outcome in therapy, supervision, training and career development.

Program Requirement: Our doctoral curriculum typically requires three to five years of full-time graduate study, plus a year-long internship in an APA-approved setting. Each of these years involves course work pertaining to theory, research and practices in counseling psychology. Students are expected to maintain full-time status. Full-time status involves being registered for at least nine credits per semester in the course work years. This requirement applies only to the academic year and not summer sessions. At a minimum, students are required to complete two years of course work in residence at ASU. Students will complete 113 credit hours, a comprehensive portfolio and a successful dissertation defense prior to graduation.

Admission Requirements: Applicants to doctoral study in counseling psychology must first submit a Graduate College application and then meet the Division of Psychology in Education admissibility standard. A minimum Fricke index of 5.5 is required for admission to graduate study in the division. The following supplemental materials are required by the counseling psychology program:

1. Three letters of recommendation. We prefer that two of these letters be from persons familiar with your academic work.
2. A brief personal statement (600 words or less) describing your history, your academic and professional goals and your reasons for selecting the counseling psychology program at ASU.
3. A completed biographical information form.
4. A seven-page sample of your expository writing (e.g., taken from a paper you have prepared for a course or a report on a project you have completed in your field).

All application materials must be submitted by Dec. 1 in order to ensure consideration for admission the following fall semester.

Contact:
Adv Stud Learning, Technology & Psychology in Ed T
http://education.asu.edu/cpy
dpe@asu.edu
EDB 302
480/965-3384

Curriculum Studies (PhD) EDCURSTPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Curriculum and Instruction (Curriculum Studies)

Program Description: The curriculum studies concentration is designed to be highly experiential in endeavors that address distinct and important educational issues. These issues transcend the various areas of educational inquiry as they impact upon the design, implementation and evaluation of education programs. These issues tend to be holistic and transdisciplinary, concerned with interrelationships of various concentration areas. Questions considered include:

- What should be taught in schools?
- Why should it be taught?
- To whom should it be taught?
- What does it mean to be an educated person?

Curriculum inquirers also investigate the relationship between curriculum theory and educational practice and the relationship between school programs and the contours of the society and cultures in which schools are located.

Program Requirement:

Core Course Requirements: six credit hours

DCI 701 Curriculum Theory and Practice
DCI 702 Interdisciplinary Research Seminar in Curriculum and Instruction Professional

Inquiry and Analysis: 15 credit hours in approaches to education research
Examples of courses that meet this requirement are:
COE 502 Introduction to Quantitative Methods
COE 503 Introduction to Qualitative Methods
DCI 691 Narrative Research in Education
DCI 791 Discourse Analysis

**Major Area of Concentration**: 30 credit hours required

DCI 691 Perspectives on Curriculum
DCI 691 Critical Theory and Curriculum
DCI 691 Contemporary Educational Theory
DCI 691 Cultural Studies in Education
One course in Comparative Curriculum or Curriculum Policy
One course in Social and/or Historical Foundations of American Education

The remaining 12 hours of course work in this area are determined according to the student’s area of sub-specialization and anticipated focus of the dissertation.

The Ph.D. program requires 84 credit hours, a dissertation, and written and oral comprehensive examinations.

**Cognate Study**: 12 credit hours

Cognate studies can be drawn from a broad range of offering, both from within and outside the Mary Lou Fulton Institute and Graduate School of Education.

**Internship**: 6 credit hours

Research and university teaching internships are required to broaden the training and experience of students.

**Research and Dissertation**: 15 credit hours

**Independent Research and Dissertation**: a minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

These credit hours demonstrate that the student is capable of conduction original research of high quality.

**Admission Requirements**: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

Admission to the program is contingent upon the commitment from an approved mentor in the concentration to advise the applicant.

Contact:
Dean, Mary Lou Fulton Inst Grad School Education
http://education.asu.edu/prospective_students/graduate_studies
cnigrad@asu.edu
Farmer Building 434
480/965-4602

Early Childhood Education (MA) EDCHILDMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Curriculum and Instruction (Early Childhood Education)

Program Description: The M.A. in curriculum and instruction with a concentration in early childhood education is a research degree program designed to facilitate the development of advanced level professional knowledge, skills and understanding. M.A. students complete a hybrid program with a mix of off-campus cohort course work and on-campus master’s and doctoral course work. Early childhood education encompasses education and care of children from birth through the primary grades. The discipline of early childhood education includes the ability to communicate and work with parents and other adults and agencies that serve young children. The program prepares professionals who can 1) educate and conduct research to provide programs and services that are appropriate for young children from diverse backgrounds and 2) conduct research on the range of issues influencing young children’s education and well-being.

Program Requirement: A minimum of 30 credit hours and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student’s graduate committee. Each M.A. candidate must form a graduate committee in consultation with their advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 hours of credit in the program. Each M.A. candidate will complete a thesis after completing a minimum of 24 hours in the program. Six credit hours of thesis are required along with a minimum of 24 credit hours of approved course work.
Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

Contact:
Dean, Mary Lou Fulton Inst Grad School Education
http://education.asu.edu/prospective_students/graduate_studies
cnigrad@asu.edu
ED 434
480/965-4602

Early Childhood Education (PhD) EDCHILDPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Curriculum and Instruction (Early Childhood Education)

Program Description: Early childhood education encompasses education of children from birth through the primary grades. The age levels involved necessitate work with parents and other adults and agencies that serve young children. The field requires skilled professionals who can prepare educators and researchers to provide programs and services that are developmentally appropriate for young children and to conduct research regarding those issues.

The Ph.D. concentration in early childhood education is an integral part of the interdisciplinary Ph.D. in curriculum and instruction, and is a major area of concentration (30 credit hours minimum) within the professional focus component of the program of study.

The goals of the doctoral program in early childhood education are to mentor scholars who:

1. Generate research that will influence policy and practice regarding the care and education of young children in multiple contexts.
2. Plan and implement teacher education and professional development programs and related research.
3. Serve as leaders in the field of early childhood education.
4. Exhibit critical thinking grounded in a range of theoretical frameworks and research methodologies related to and influencing childhood studies and early education.

Program Requirement: The curriculum and instruction Ph.D. program requires at least 84 credit hours beyond the bachelor’s degree.

Early Childhood Education Concentration: 30 credit hours from a range of foundational and emerging courses in the field. Several new courses have been developed recently, emphasizing a range of theoretical and methodological approaches to childhood studies and emphasizing social policy and advocacy. A professional development seminar is also offered each semester, which provides practical experiences related to higher education in early childhood education.

Curriculum and Instruction Core Requirements: six credit hours of interdisciplinary research seminar in curriculum and instruction, and curriculum theory and practice.

Inquiry and Analysis: 15 credit hours, including ontologies and epistemologies of research, overviews of quantitative and qualitative research methods and in-depth study of particular research philosophies and methods (dependent on student goals and committee advice).

Internships: six credit hours, concentrating on college teaching, research and public policy/advocacy.

Cognate Study: 12 credit hours that provide an interdisciplinary element to the program. With the advice and approval of the program chair and the student’s committee, the student chooses a cognate area of study suitable to individual goals.

Independent Research and Dissertation: a minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.
Additional materials may be required to gain admission into certain programs or cohorts.

Admission to the program is contingent upon the commitment from an approved mentor in the concentration to advise the applicant.

Contact:
Dean, Mary Lou Fulton Inst Grad School Education
http://education.asu.edu/prospective_students/graduate_studies
cnigrad@asu.edu
ED 434
480/965-4602

Educational Administration & Supervision (EdD) EDSUPVEDD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: EdD Educational Administration and Supervision

Program Description: The Dynamic Educational Leadership for Teachers and Administrators (DELTA) doctorate program is a professional leadership educational program designed for practicing professionals seeking an alternative to traditional graduate programs. The program seeks applicants who are practicing teacher leaders, school or district administrators and government educational personnel. After careful screening, cohorts of approximately 25 students are admitted and remain together for the entire program. Courses are taught by a dynamic faculty composed of full-time ASU professors along with clinical courses taught by successful practicing administrators. A component of this unique program is international travel designed to prepare leaders who are ready to address education issues within global contexts and better serve the needs of students with diverse languages and cultures. Program goals are geared to develop leaders with knowledge and deep understandings of:

- Leadership for innovation and change.
- The needs of schools in urban settings.
- Educational equity and social justice.
- Curricular and instructional leadership.
- Indigenous and immigrant communities.
- Binational, international and global issues in education.
- Research in applied settings.
- Spanish or another language relevant to the Southwest.

Program Requirement: The curriculum focuses on five areas:

1. Research/evaluation/assessment.
2. Diversity/international/binational and global studies.
3. Leadership core.
4. Internships/fieldwork/action research.
5. Research proposal development/research.

The degree requirements include:

1. Successful completion of a minimum of 90 graduate credits (30 credits may be from an accepted previously awarded master's degree).
2. Successful completion of six credits of Spanish or a language relevant to the Southwest or demonstrated competence in that language.
3. Successful completion of a preproposal/research prospectus including a review of literature at the end of the second year (this requirement satisfies the written comprehensive examination).
4. Successful completion of a dissertation research proposal with committee approval at the end of the second year/beginning of the third year.
5. Successful completion of a doctoral dissertation with oral defense.

All classes are taken with the cohort and no other course work can be substituted.

Admission Requirements:

1. Master's degree in education or related field.
2. Three years teaching experience preferred.
3. GRE Scores.
4. Demonstrated potential for educational leadership.

Application Procedures

Applicants must apply to the Graduate College and complete an application to the DELTA program. Applicants applying for this graduate degree program must apply for admission to the Graduate College using the electronic application form.

Admission to the Ed.D program requires:

1. Undergraduate and graduate transcripts.
2. GRE test scores.

Your application to the DELTA program requires the following materials:

1. The application form.
2. A two- or three-page letter of application, which should address the personal strengths that you bring to the program and your prior leadership experiences. You should also describe the highlights of your educational career, along with interests and experiences. Explain how these experiences have influenced your perspectives on schooling and educational leadership. Explain how your goals match the program goals.
3. Three letters of recommendation. One letter should be from your principal or another person in a supervisory position.
4. Vitae or resume including work and academic experiences.
5. A short writing sample or paper. It is preferred that your writing sample be a single-authored paper that includes references.

Your completed DELTA application material may be submitted in one of the following processes:

- Applicants may complete the supplemental application requirements when applying online to the Graduate College.
- Application materials may be submitted including application form, letter of application, vitae or resume, writing sample, and any additional documents via e-mail to deltadocs@asu.edu. E-mail attachments must be in Word (.doc) or rich text format (.rtf).
- Application materials may be mailed to:

  Arizona State University
  Mary Lou Fulton Institute and Graduate School of Education
  Division of Education Leadership and Policy Studies
  DELTA Doctoral Program
  P.O. Box 872411
  Tempe, AZ 85287-2411

Contact:
Adv Stud Eductnl Policy, Leadership & Curriculum T
http://education.asu.edu
deltadocs@asu.edu
ED 120H
480/965-7224

Educational Administration & Supervision (MEd) EDSUPVMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Educational Administration and Supervision

Program Description: The M.Ed. in educational administration and supervision is designed to develop instructional leaders for the 21st century. Students in this program will learn how to create and sustain collaborative environments in pre-K-12 schools that support learning for all children. Central to the purpose of the program is the identification, development and articulation of organizational goals that enhance learning, curriculum, instruction, assessment and leadership. An emphasis on practical application will assure the identification and collection of those tools and techniques deemed essential for effective management.

The program is offered in a cohort format, allowing a class of students to proceed through the program of study as a unit. Cohorts are offered throughout the metropolitan area served by Arizona State University and start at various times throughout the academic year as demand dictates. Successful completion of the
program of study provides the student with the academic requirements needed for certification as a principal in the state of Arizona.

Program Requirement: The program of study consists of 36 credit hours of course work. Of these hours, 30 hours must be in the area of educational administration. The remaining six hours are foundational core requirements. A capstone course, EDA 691, is required.

Admission Requirements: Application deadlines are:

- Feb. 1 for cohort groups starting during the summer sessions.
- April 1 for cohort groups starting during the fall semester.
- Oct. 1 for cohort groups starting during the spring semester.

To apply students must submit and meet the following criteria:

1. Graduate College online application.
2. Application fee.
3. Official transcripts to the Graduate College Admissions Office.
4. Letter of intent.
5. Resume.
7. No test scores are required; however, applicants must have completed three years of successful teaching and the state required SEI hours before applying.

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http://education.asu.edu
delps@asu.edu
ED 120
480/965-6357

Educ Administration & Supervision - Supervision (MEd) TESPRVIMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Educational Administration and Supervision (Supervision)

Program Description: This degree is intended for teacher leaders desiring Arizona State certification for supervisory positions. For teachers who want to learn leadership skills and work with other teachers on improving instruction, but do not necessarily want to become a principal. This concentration leads to Arizona Supervisor Certification.

Program Requirement: This program requires 36 credit hours. Students in the M.Ed. in educational administration and supervision program complete:

1. Core requirements (nine credit hours).
2. Program requirements (six credit hours).
3. Concentration requirements (21 to 30 credit hours).
4. An applied project (electronic portfolio) is required.

Admission Requirements:

1. All requirements of the ASU Graduate College
2. Three letters from professional references.
3. Resume.
4. Two-page personal statement describing professional goals.

In most classes, students work with a school principal (or in the superintendency program, a superintendent) in order to provide for the application of knowledge in real world settings. It is wise to obtain one of your recommendations from the principal you plan to work with to demonstrate your supervisor’s judgment as to your potential as an administrator. GRE scores are not required for admission.

Contact:
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/
ctelgrad@asu.edu
FAB S236
602/543-5595

Educational Leadership/Policy Studies (PhD) EDLDRSHPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Educational Leadership and Policy Studies

Program Description: The Ph.D. in educational leadership and policy studies emphasizes methods of policy analysis and provides for specializations in particular disciplines and topics. Education policy studies analyze the process by which society formulate, implement, evaluate and modify their educational systems. Doctoral students receive coursework and practical experiences in a variety of contexts, including higher education, elementary and secondary schools, and education governing bodies.

Areas of specialization include:

- American Indian education policy.
- Anthropology and education.
- Higher education.
- International and comparative education.
- Language policy.
- Policy analysis.
- Social and philosophical foundations.
The faculty seeks to train persons who will teach or conduct scholarly research on education policy in school districts, government agencies and universities. For more information on our current students and their research interests, please see our newsletter, Policy Briefs.

Program Requirement: Requirements for the Ph.D. degree consist of:

1. A minimum of 84 hours of course work specified in a student's program of study.
2. Comprehensive exams.

There is a 10-year time limit for Ph.D. students, starting at the time of admission. Students entering the Ph.D. program with a master’s degree in a related discipline and with credit for between 24 and 30 credit hours of graduate course work will be expected to earn a total of 84 hours past the bachelor’s including the transferred master’s hours; of these 84 credit hours, 54 must be earned at ASU. Students can use a block of 30 credit hours from a previously awarded master’s degree plus 12 credit hours not used in any previous degree program as part of the Ph.D. required credits, only if they can prove by a master’s program of study that these credits were not required for their master’s. Students who withdraw from a master’s in order to start a Ph.D., lose all credits except the 12 credit hours allowed to be brought forward.

Admission Requirements: Admission to the Ph.D. program is based on:

1. Undergraduate and graduate GPAs.
2. Scores on the GRE or GMAT.
3. Letters of recommendation.
4. A personal statement describing the candidate’s research and career goals, work and academic experiences.
5. Availability of faculty to supervise the academic area of interest.

Deadlines for application to the Ph.D. program are Jan. 1 and March 1 of each year.

Application to all programs begins through the Graduate College, using their online application. Students must also submit to the Division of Educational Leadership and Policy Studies:

1. A personal statement.
2. Curriculum vitae.
3. Three letters of recommendation.

These supplemental application materials can be downloaded at the Ph.D. Web page.

Contact:
Adv Stud Educnl Policy, Leadership & Curriculum T
http://education.asu.edu
Educational Psychology (MA) EDPSYCHMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Educational Psychology

Program Description: Each student’s program is prepared in consultation with the supervisory committee, consisting of a chair and two or more faculty members. Applicants to the M.A. in educational psychology must indicate which specialization they wish to study. Areas of specialization are:

- Learning.
- Lifespan developmental psychology.
- Measurement, statistics and methodological studies.

Program Requirement:

1. Thirty credit hours.
2. Written comprehensive examination.

Admission Requirements: Applicants must complete a Graduate College application. See additional requirements for area of specialization on the Web site at http://education.asu.edu/prospective_students/graduate_studies.

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dpe@asu.edu
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Educational Psychology (MEd) EDPSYCHMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Educational Psychology

Program Description: Educational psychology offers a M.Ed. for persons who wish to further prepare themselves for instructional or educational positions in a variety of settings. Students completing this program are not expected to continue into the Ph.D. in educational psychology.

Program Requirement: A minimum of 36 credit hours and a comprehensive examination are required.

- Educational psychology core
• Introduction to research and evaluation.
• Learning and instruction.
• Child development.
• Psychology of the adolescent.

Focus studies

Three or four courses related to a topic chosen by the student.

Admission Requirements:

1. Graduate College application with transcripts from a previously attended institution.
2. Individual Resume. This document should include your higher education background, classroom teaching, other employment experiences, public service affiliation with professional organizations, awards, presentations, publications and descriptions of nonacademic interests.
3. Statement of Goals. This one- or two-page narrative should identify the career path the applicant wishes to pursue, indicate how preparation to date contributes to the plan and tell how a degree in educational psychology can attain one's goals.
4. GRE Scores.
5. In addition to the GRE score requirement, a Test of English as a Foreign Language (TOEFL) score is required of students whose native language is not English.

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480/965-3384

Educational Technology (Grad Certificate) EDEDTGRCT

Official Degree Awarded: CERT Educational Technology (certificate)

Program Description: The graduate certificate in educational technology is designed for individuals interested in gaining proficiency in the design, development and evaluation of instructional systems as well as learning how to utilize various educational technology applications to support learning and performance.

Program Requirement: The certificate consists of 15 credit hours of course work. Students must successfully complete three core courses, one elective course and one capstone course to complete the certificate. In terms of core courses, students are required to complete the courses listed below.

Core Courses (three required)
EDT 501 Foundations and Issues in Educational Technology
EDT 502 Design and Development of Instruction
EDT 503 Instructional Media Design

Students must complete one elective course, chosen with their advisor, and a three-credit-hour capstone course: EDT 504 Development of Computer-Based Instruction.

Admission Requirements: The graduate certificate in educational technology is available to all ASU graduate students and to nondegree graduate students provided they meet eligibility criteria. To be eligible for this program, the applicant must:

1. Hold a bachelor's degree or equivalent from a regionally accredited institution.
2. Have a cumulative junior/senior undergraduate GPA of 3.00 or higher.

All applicants must submit the Graduate College online application. All materials listed below must be submitted to graduate admissions:

1. Graduate certificate in educational technology program application for admission.
2. One official copy of all college or university transcripts.
3. Curriculum vitae or resume.

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Educational Technology (Art, Media & Engr)(PhD) EDAMEPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Educational Technology (Arts, Media and Engineering)

Program Description: The educational technology Ph.D. program focuses on the design, development and evaluation of instructional systems and on educational technology applications to support learning. The doctoral program emphasizes research using educational technology in applied settings and prepares students for a variety of professional positions. Graduates are typically employed as university faculty, educational technologists in universities, community colleges and schools, or as training managers in corporate settings.

Arts, media and engineering (AME) is a concentration in the educational technology Ph.D. The AME concentration provides graduate students with:

- The opportunity for training that combines solid knowledge in their discipline with interdisciplinary knowledge in digital media.
• Hands-on investigation of current issues in digital media research and development.
• Participation in high-end interdisciplinary media research.
• Lead roles in collaborative, interdisciplinary development of novel experiential media systems for education.

For more information on AME, please visit the program Web site, http://ame.asu.edu/.

Program Requirement: A minimum of 84 credit hours beyond the bachelor's degree is required. At least 54 of these hours must be taken at Arizona State University after admission to the Ph.D. program. The following course work is required for all students in the educational technology doctoral program:

• Foundations and issues in educational technology.
• Design and development of instruction.
• Educational evaluation.
• Introduction to date analysis.
• Multiple regression/correlation.
• Research in educational technology.
• Advanced Instructional Development.

One year full-time in residency, a research publication and a written comprehensive examination are required.

The concentration assumes the student enters with a master's degree in educational technology or a related field; if the student's master's degree is not in educational technology, the advisor will work with the student to identify course deficiencies. The AME concentration requires that about one third of the course credit be taken from AME. Furthermore the AME concentration requires that about half of the research/dissertation credit hours are also taken from AME. Research and dissertation credits for all AME concentration students will be related to work on interdisciplinary experiential media projects from a common research agenda.

Admission Requirements: All applicants must submit the Graduate College online application. Applicants to the concentration must complete the educational technology program application and provide the additional materials required for the application to an AME concentration. The complete package is submitted to educational technology. A student must first be admitted to the educational technology doctoral degree program, and then his or her application will be considered by the AME admissions committee.

Educational technology admissions criteria apply for admittance into the Ph.D. program.

After an AME concentration applicant is admitted into the educational technology
Ph.D. program, the AME faculty will then decide if the person also meets the digital media related requirements for admission into the concentration.

Contact:
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http://education.asu.edu
dpe@asu.edu
EDB 302
480/965-3384

Educational Technology (MEd) EDTECHMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Educational Technology

Program Description: The educational technology master’s program has a strong focus on design, development and evaluation of instructional systems, as well as current and emerging trends and technologies, including:

- Human performance technology.
- Training.
- Web-based learning.
- Distance learning.
- Online learning.
- Technology integration.
- Multimedia learning.
- Interactive learning environments.

Graduates of the program typically are employed in schools, community colleges and universities or as training specialists in corporate settings.

Program Requirement: A minimum of 30 credit hours beyond a bachelor's degree is required. Each student develops a program of study in consultation with a faculty advisor.

Required Courses (18 credit hours):

- Foundations and issues in educational technology.
- Design and development of instruction.
- Instructional media design.
- Development of computer-based instruction.
- Theoretical views of learning.
- Internship (or practicum).

Elective Courses: 12 credit hours of elective courses from a variety of specialty areas such as instructional design, various technologies, media development, technology
integration, distance education, performance improvement and training. A comprehensive examination is also required.

**Admission Requirements:** All applicants must submit the Graduate College online application. Academic requirements for admission to the EDT master's program include:

1. A four-year undergraduate GPA of 3.00 or above.
2. A score of either 500 or above on the GRE verbal section or a scaled score of 400 or above on the Miller Analogies Test (MAT).
3. A score of 550 (paper-based) or 213 (computer-based) or 80 (Internet-based) or above on the Test of English as a Foreign Language (TOEFL) for students who do not speak English as their first language.
4. Statement of professional goals. Find this form at [http://education.asu.edu/about/academic_units/psyched/psyched_forms.do](http://education.asu.edu/about/academic_units/psyched/psyched_forms.do).
5. Two references. Complete and sign the top portion of each form before giving to the persons who will provide your recommendations. Recommenders may, if they wish, attach original letters on letterhead stationery. Reference forms can be found at [http://education.asu.edu/about/academic_units/psyched/psyched_forms.do](http://education.asu.edu/about/academic_units/psyched/psyched_forms.do).

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**Educational Technology (PhD) EDTECHPHD**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** PHD Educational Technology

**Program Description:** The focus of the Ph.D. program in educational technology is on the design, development and evaluation of instructional systems and on educational technology applications to support learning. The doctoral program emphasizes research using educational technology in applied settings.

The Ph.D. in educational technology prepares students for a variety of professional positions. Graduates are typically employed as university faculty, educational technologists in universities, community colleges and schools or as training managers in corporate settings.

**Program Requirement:** A minimum of 84 credit hours beyond the bachelor's degree is required. At least 54 of these hours must be taken at Arizona State University.
after admission to the Ph.D. program. The following 48 credit hours of course work is required for all students in the educational technology doctoral program:

- Foundations and Issues in Educational Technology.
- Design and Development of Instruction.
- Instructional Media Design.
- Development of Computer-based Instruction.
- Educational Evaluation.
- Theoretical Views of Learning.
- Introduction to Data Analysis.
- Multiple Regression/Correlation.
- Research in Educational Technology.
- Advanced Instructional Development.
- Advanced Educational Technology Research.
- Dissertation.

One year full-time in residency, a research publication and a written comprehensive examination and successful defense of the dissertation are required.

Electives: 36 credit hours minimum.

**Admission Requirements:** Applicants must submit a Graduate College application, transcripts and GRE results.

Academic requirements for admission to the educational technology doctoral program include:

1. A four-year undergraduate GPA of 3.20 or above.
2. Scores of 500 or above on both the verbal reasoning and quantitative reasoning sections of the GRE.
3. A score of 4 or above on the analytical writing section of the GRE.
4. A score of 600 (paper-based) or above on the Test of English as a Foreign Language (TOEFL) or 100 (Internet-based) is also required for students who do not speak English as their first language.

In addition, a statement of professional goals, two professional references and a resume are needed.

**Contact:**
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http://education.asu.edu
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**Elementary Education (MA) EDELEMMMA**
Mary Lou Fulton Institute and Graduate School of Education
Official Degree Awarded: MA Curriculum and Instruction (Elementary Education)

Program Description: Designed as a research degree, the M.A. prepares students wishing to continue on to a doctorate. The concentration in elementary education offers advanced course work in research methodology, theory and practice in the area of elementary education. This concentration encompasses the study of education and care of children through the primary grades. The program integrates professional knowledge and understanding with research skills, demonstrated in the completion of the required thesis.

Program Requirement: A minimum of 30 credit hours of credit and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student’s graduate committee. Each M.A. candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 credit hours in the program. Each M.A. candidate will complete a thesis after completing at least 24 hours in the program. Six credit hours of thesis are required along with a minimum of 24 credit hours of approved course work.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

Contact:
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http://education.asu.edu/prospective_students/graduate_studies
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ED 434
480/965/4602

Elementary Education (MEd) EDELEMMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (Elementary Education)

Program Description: The M.Ed. in curriculum and instruction with a concentration in elementary education is a degree program designed to facilitate development of practitioner knowledge, skills and understanding for teachers in elementary classrooms. Practitioners are usually classroom teachers or individuals preparing to
teach, who will focus on developing classroom practices based on current research, the integration of subject matter content in elementary classrooms, and a thoughtful examination of their own teaching practices in relation to student learning.

The concentration in elementary education encompasses the study of education and care of children through the primary grades. The program requires students to develop a deeper understanding of the research, theories and methods required of a successful practitioner in the elementary schools of today, including a more advanced understanding of diverse learners in culturally diverse settings. For more information, see http://education.asu.edu/prospective_students/graduate_studies/ci_med.dot.

An M.Ed. with elementary teacher certification is also offered. The TEACH+ME program provides candidates with an M.Ed. in curriculum and instruction with a concentration in elementary education and an institutional recommendation for teacher certification in elementary education.

**Program Requirement:** A minimum of 30 credit hours of graduate credit is required for the M.Ed. in curriculum and instruction; the TEACH+ME program requires 45 credit hours. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

**Admission Requirements:** The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts. For specific information regarding admission requirements, see http://education.asu.edu.

**Contact:**
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**English as a Second Language - Tempe Campus (MA) EDESLMA**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** MA Curriculum and Instruction (English as a Second Language)

**Program Description:** The M.A. in curriculum and instruction is intended for students wishing to conduct original research in U.S. school settings and continue on for the Ph.D. The M.A. concentration in English as a second language is designed to provide course work related to teaching school-aged English learners in U.S. settings (second language acquisition theory, English learner programs and methods and language assessment) along with course work in research methods to be used in the design and implementation of the thesis.

Note: This degree is not the same as the Master of Teaching English to Speakers of Other Languages (MTESOL) offered through the English department.

**Program Requirement:** A minimum of 30 credit hours of course work and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student's graduate committee. Each M.A. degree candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 credit hours in the program. Because of the research component, students enrolling in the M.A. typically need more than 30 hours to complete the degree. Each M.A. candidate will complete a thesis after completing at least 24 hours in the program. Six credits of thesis are required along with a minimum of 24 credit hours of approved course work.

**Admission Requirements:** The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

**Contact:**
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cnigrad@asu.edu
English as a Second Language - Tempe Campus (MEd) EDESLMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (English as a Second Language)

Program Description: The M.Ed. in curriculum and instruction with a concentration in English as a second language is intended for students who are currently teaching English learners, at the K-12 levels of education. This degree is designed for practitioners to facilitate development of advanced level professional knowledge of research, theory and practice in the area of teaching English learners in school settings. The M.Ed. in English as a second language is designed to provide course work related to teaching English learners in U.S. settings (second language acquisition theory, English learner programs and methods and language assessment).

Note: This degree is not the same as the Master of Teaching English to Speakers of Other Languages (MTESOL) offered through the English department.

Program Requirement: A minimum of 30 credit hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity (written examination, research project or applied project) in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in the teacher as researcher course the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

Contact:
Dean, Mary Lou Fulton Inst Grad School Education
English Education (PhD) EDENGLPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Curriculum and Instruction (English Education)

Program Description: The interdisciplinary Ph.D. in curriculum and instruction with a concentration in English education offers classes in both the Mary Lou Fulton Institute and Graduate School of Education and the College of Liberal Arts and Sciences at ASU. Students receive training and mentoring in six related disciplines:

- Literature.
- Linguistics.
- Second language teaching.
- Rhetoric and composition.
- Research techniques.
- The nature of learning.

In addition to core requirements, students are involved in seminars and internships.

We believe that doctoral students should receive a graduate experience of classes, seminars, internships and research experience that make them aware of the basic precepts and controversies in both historic and current fields of English education, for example:

- The philosophy and sociology behind such current issues as national and state standards and high stakes testing.
- Issues concerning usage and the teaching of grammar, especially in relation to multiculturalism and second-language learning.
- Development of critical skills in relation to the Internet and other mass media.
  Subject matter of special interest to secondary level teachers including the appreciation of literature and development of writing skills.
- Skills and techniques needed to conduct and report on research and to understand other people’s research.

Program Requirement: The Ph.D. requires 84 credit hours, a dissertation and written and oral comprehensive examinations.

Students with a master’s degree awarded by an accredited university and directly related to the anticipated course of study may request that 30 hours of the master’s degree be applied directly to the required 84 hours. In addition to this master’s
degree, the program of study must contain at least 54 credit hours taken at Arizona State University since being admitted to the Ph.D. program. Twelve of these hours must be 799 (dissertation credit) while the other hours (minimum of 42) will be selected by the student and his or her dissertation chairperson and listed on the program of study, which must be approved by the dissertation committee. These hours should be chosen to build on hours already taken at the master’s level; however, some classes identified below are mandatory, while others are suggestions.

Mandatory: Curriculum and Instruction Core Requirements (six credit hours)

- DCI 701 Curriculum Theory and Development
- DCI 702 Curriculum Theory and Practice

Mandatory: Three Internships (two credit hours hours each of ENG 784, for a total of six)

Typically, one internship will be in research, one in the supervising of student teachers and one in the teaching of a college class in the field of English education. Students should work with at least two different faculty members and should not take more than one internship in the same semester.

English Education Concentration (18 credit hours)

- Mandatory: Two ENG 598 Special Topics courses offered by English education faculty members.
- Mandatory: ENG 606 Advanced Studies in English education.
- Choose two other graduate English classes from ENG 504, 506, 507 and 540.
- A graduate class in linguistics, English as a second language or teaching composition.

Inquiry and Analysis (12 credit hours)

- One class in quantitative and one class in qualitative research methods. If such classes were taken as part of the master’s degree, other research classes should be chosen to help the student prepare for writing the dissertation. We suggest Eng 556 Theories of Literacy and ENG 654 Advanced Studies: Literature/Technology/Power.
- Mandatory: ENG 792 (independent study with your committee chair): Preparing for comprehensive exam and writing the dissertation proposal.

Mandatory: Independent Research and Dissertation: a minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

Note: This is only a basic list of requirements.
Students should be prepared to take additional classes as suggested by their advisory committee in relation to their dissertation topic.

**Admission Requirements:** Admission to the program is open only to those with a minimum of two years experience teaching English in grades 6-14. Students are expected to come into the program holding a valid teaching certificate and a relevant master’s degree.

The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately ten pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

Admission to the program is contingent upon the commitment from an approved mentor in the concentration to advise and mentor the applicant.

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**Higher and Postsecondary Education (EdD) EDPOSTEDD**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** EdD Higher and Postsecondary Education

**Program Description:** The Ed.D. program in higher and postsecondary education is based on a researcher/practitioner model that focuses on the application of concepts, techniques and skills necessary to prepare professionals for leadership roles in the higher education community, with an emphasis on serving diverse communities at two- and four-year colleges and universities. It is a 36-month, cohort, fee-based program. Course work is delivered on-campus, off-site and online.

Program hallmarks include:
• The program allows higher education professionals, including mid to senior-level administrators and faculty, to earn an Ed.D. without major disruption from their employment status.
• Program design permits students to complete all course work and their dissertation in three years (36 months).
• The curriculum is a blend of on-campus, off-site and online learning that will utilize the benefits of these learning models (face-to-face interaction and flexibility).
• The program offers a unique opportunity for students to participate in site visits to a variety of models of higher education institutions.
• Students will learn from accomplished practitioners and distinguished scholars throughout the ASU campus and innovative leaders and practitioners locally and throughout the country.
• The program is a cohort-based model with a cohesive, integrated curricular structure, yet one which provides a degree of flexibility.
• Students are exposed to a variety of research focused on organizational change, diverse student learning models and student transitions between educational levels and institutions.
• Students engage in research/inquiry methods to be knowledgeable about and for addressing emerging changes or developing paradigm shifts in the field.

Program Requirement: The program requires:

1. Ninety credit hours.
2. An internship.
3. Written comprehensive examination.

Admission Requirements: All applicants must submit the Graduate College online application. Program applicants are evaluated on the following:

1. Master’s degree in a field related to higher and postsecondary education, candidates with degrees in outside areas may be considered.
2. At least three years of experience in higher/postsecondary education leadership positions or similar roles in other types of organizations.
3. A minimum GPA of 3.00 in both undergraduate and graduate course work.
4. Statement of purpose, which outlines career interest and understanding of trends in higher education.
5. Current resume or vitae.
7. GRE scores.
8. Phone or on-campus interview with the admissions committee.

Contact:
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Higher and Postsecondary Education (MEd) EDPOSTMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Higher and Postsecondary Education

Program Description: The M.Ed. in higher and postsecondary education is a relevant and applied program designed to shape scholars and leaders with knowledge and skills paralleling the trajectory of the New American University. The program’s graduates are prepared to advance student and institutional success across every area of the undergraduate learning experience.

Highlights of the program include that it:

1. Includes a variety of course delivery formats for students, which expedites degree attainment.
2. Offers the graduate student success seminar at the beginning of the program and features M.Ed. peer instructors to help build relationships, create a professional e-portfolio and to develop skills for student success.
3. Offers courses that integrate theory to practice through relevant research, models and applied skills.
4. Offers creative practicum experience to advance skills and professional development.
5. Collaborates with university learning partners to fund graduate students through management internship opportunities.
6. Culminates with an applied project (nonthesis) that demonstrates the student’s learning and development for in job applications, professional growth and lifelong learning.

Program Requirement: The M.Ed. program requires 30 credit hours of graduate work beyond the bachelor’s degree. Students will meet with the M.Ed. coordinator during their first semester of enrollment and the beginning of their third semester, to develop their program of study, review their student portfolio, outline their practicum and prepare for the applied project and graduation. All of the program of study requirements for the M.Ed. in the higher and postsecondary education program must be completed within a period of six years.

Admission Requirements: For admission to the M.Ed. program, the Education Institute offers rolling admissions and requires the following criteria from applicants:

1. Online application, application fee and official undergraduate transcripts to the Graduate College.
2. Letter of intent and resume to the Division of Educational Leadership and Policy Studies.
Indian Education (MA) EDINDMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Curriculum and Instruction (Indian Education)

Program Description: The M.A. in curriculum and instruction with a concentration in Indian education is a research degree program that requires a research core, an Indian education concentration core, electives and a thesis. This program emphasizes innovative research and sound inquiry that is sensitive and responsive to native peoples, the communities and worldviews. The program addresses the role of working collaboratively to enhance knowledge and acknowledge the richness and uniqueness of indigenous education. The M.A. requires the completion of a master’s thesis, which is the culminating activity.

Program Requirement: A minimum of 30 credit hours and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student's graduate committee. Each M.A. degree candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 credit hours in the program. Each M.A. candidate will complete a thesis after completing at least 24 hours in the program. Six credits of thesis are required along with a minimum of 24 credit hours of approved course work.

Required courses in the research core are:

- Introduction to Research and Evaluation in Education.
- Conducting Educational Research in Indigenous Communities.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Indian Education (MEd) EDINDMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (Indian Education)

Program Description: The M.Ed. in curriculum and instruction with a concentration in Indian education is designed for practitioners to facilitate development of advanced level professional knowledge of research, theory and practice in the area of indigenous education. The degree includes advanced courses in Indian education, including history of American Indian education and foundations of instruction for indigenous classrooms. This program emphasizes innovative and sound inquiry that is sensitive and responsive to Native peoples, the communities and worldviews. The program addresses the role of working collaboratively to enhance knowledge and acknowledge the richness and uniqueness of indigenous education.

Program Requirement: A minimum of 30 credit hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity (written examination, research project or applied project) in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Language and Literacy (MA) EDLANGMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Curriculum and Instruction (Language and Literacy)

Program Description: This M.A. program offers students opportunities to develop expertise in contemporary issues and pedagogical methods related to language and literacy, teaching and research, such as:

- Children's literature.
- Content literacy.
- Critical literacy.
- Culture and literacy.
- Gender.

M.A. students also investigate both applied and theoretical issues in language and literacy. Students may use this program as preparation for doctoral work in language and literacy.

Program Requirement: A minimum of 30 credit hours and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student's graduate committee. Each M.A. degree candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 credit hours of credit in the program. Each M.A. candidate will complete a thesis after completing at least 24 hours in the program. Six credits of thesis are required along with a minimum of 24 credit hours of approved course work.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Language and Literacy (MEd) EDLANGMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (Language and Literacy)

Program Description: The M.Ed. in curriculum and instruction with a concentration in language and literacy offers students opportunities to develop expertise in contemporary issues and pedagogical methods related to language, literacy, teaching and learning, such as:

- Children’s literature.
- Content literacy.
- Critical literacy.
- Culture and literacy.
- Gender.
- Language and literacy processes.
- Multilingual/multicultural literacy.
- Assessment.

Program Requirement: A minimum of 30 hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity (written examination, research project or applied project) in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Language and Literacy (PhD) EDLANGPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Curriculum and Instruction (Language and Literacy)

Program Description: The concentration in language and literacy in the interdisciplinary Ph.D. program in curriculum and instruction at ASU provides opportunities for research and study in language and literacy education:

- Adolescent literacy.
- Bilingualism.
- Biliteracy.
- Children's literature.
- Classroom discourse.
- Educational linguistics.
- Emergent literacy.
- Gender and literacy.
- Heritage language studies.
- Language and literacy education.
- Language policy.
- New literacies.
- Reading.
- Second language acquisition.
- Technoliteracies.
- Writing.

The language and literacy Ph.D. concentration is designed to develop scholars in language and literacy education.

Program Requirement: The Ph.D. requires 84 credit hours, a dissertation, and written and oral examinations.
The following domains comprise the interdisciplinary language and literacy Ph.D. program:

**Area of concentration:** 30 credit hours are required pertaining to language and literacy education.

Cognate study: 12 credit hours are taken outside the students declared concentration to broaden their understanding of the conceptual base and issues underlying the study of curriculum and instruction.

**Inquiry and analysis:** 15 credit hours of empirical analysis and inquiry foundations are required in advanced design and data analysis in quantitative and/or qualitative research methods.

**Language and literacy doctoral seminars:** Each semester for the first four semesters in the program, students are required to take the one-hour language and literacy seminar on linguistics, early literacy, adolescent/adult literacy and language policy/politics.

**Core coursework:** Six credit hours of courses (interdisciplinary research seminar in curriculum and instruction and curriculum theory and practice) are required as the curriculum and instruction core.

**Internships:** Six credit hours of research and university teaching internships are required to broaden the training and experience of students.

**Independent research and dissertation:** A minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

**Admission Requirements:** The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. Writing sample (approximately 10 pages in length).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.
Admission to the program is contingent upon the commitment from an approved mentor in the concentration to advise and mentor the applicant.

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Learning (PhD) EDPSYLEPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Educational Psychology (Learning)

Program Description: The learning concentration of the Ph.D. in educational psychology focuses on theoretical and empirical issues in the cognitive and learning sciences, and their educational applications and implications. Faculty interests include parent and teacher education, cognition, motivation and self-regulation and literacy. The concentration prepares students for professional positions in the academy, school districts, departments of education and industry. Learning stresses student involvement in professional activities. Students work with faculty on research of mutual interest, present their work at national conferences and submit papers to peer-reviewed journals.

Program Requirement: The program requires a minimum of 84 credit hours beyond the bachelor's degree. At least 54 of these hours must be taken at Arizona State University.

Learning core: psychology of reading, higher-order cognition, motivation, learning science lab, internship in undergraduate teaching.

Interdisciplinary core: introduction to data analysis, multiple regression/correlation methods.

Specialization: reading and conference, research practicum, self regulation.

Electives are determined by student and advisor.

Prior to admission to candidacy, the student must satisfy a publication requirement; this can be fulfilled with either:

- Publication in a refereed journal of the quality of the journals published by the American Psychological Association (APA) or the American Educational Research Association (AERA).
- Presentation at an annual conference of a national organization of the quality of APA or AERA.
A written comprehensive examination and successful completion of the dissertation is required.

Admission Requirements: All applicants must submit the Graduate College online application. The learning doctoral program is a limited-admission program. In making their decision, faculty members consider several items, including:

- Undergraduate GPA.
- Scores on the verbal and quantitative sections of the GRE.
- References from two university faculty or other individuals who can judge an applicant’s academic potential.
- The statement of professional goals and interests.

A score of 600 or above on the Test of English as a Foreign Language (TOEFL) is also required for students who do not speak English as their first language. For more information please contact the program staff: http://education.asu.edu/learning.

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Mathematics Education (MA) EDMATHMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Curriculum and Instruction (Mathematics Education)

Program Description: The M.A. in curriculum and instruction with a concentration in mathematics education is a research degree program designed to facilitate development of advanced-level professional knowledge, skills and understanding. This program is designed to cultivate an understanding of mathematics education. Students in this program participate in core mathematics education courses, and then have the opportunity to examine one aspect of mathematics education in depth. This program is designed for the mathematics educator who plans to pursue additional graduate work in mathematics education.

Program Requirement: A minimum of 30 credit hours and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student’s graduate committee. Each M.A. degree candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 credit hours in the program. Each M.A. candidate will complete a thesis after completing at least 24 hours in the program. Six credits of thesis are required along with a minimum of 24 credit hours of approved course work.
Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. Writing sample (approximately 10 pages in length).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Mathematics Education (MEd) EDMATHMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (Mathematics Education)

Program Description: The M.Ed. in curriculum and instruction with a concentration in mathematics education is a practitioner’s degree program designed to facilitate development of advanced level professional knowledge, skills and understanding. Students in this program explore issues related to teaching and learning in mathematics education and study these issues in the context of their own classroom. This program is designed for the professional classroom math educator.

Program Requirement: A minimum of 30 hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity (written examination, research project or applied project) in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

Admission Requirements: The following are required:
1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Mathematics Education (PhD) (Curriculum and Instruction - Grades K-12) EDMATHPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Curriculum and Instruction (Mathematics Education)

Program Description: The Ph.D. in curriculum and instruction with a concentration in mathematics education provides opportunities for research in the teaching and learning of mathematics in K-12. Candidates may concentrate in the study of students' mathematical thinking, the design of learning and teaching environments, and the development and application of technologies for mathematics learning. Program mentors come from the Mary Lou Fulton Institute and Graduate School of Education and from the School of Mathematical and Statistical Sciences in the College of Liberal Arts and Sciences.

Program Requirement: The Ph.D. requires 84 credit hours, a dissertation, and written and oral comprehensive examinations.

The following six domains comprise the mathematics education Ph.D. program:

Mathematics Education Concentration: 30 credit hours
12 credit hours of the mathematics education seminar series
18 credit hours pertaining to mathematics education, mathematics and statistics.

Inquiry and Analysis: 15 credit hours
Advanced design and data analysis in quantitative and/or qualitative research methods.

Core Requirements: 6 credit hours
Interdisciplinary research seminar in curriculum and instruction and curriculum
theory and practice.

**Cognate Study:** 12 credit hours

To broaden the student’s understanding of the conceptual base and issues underlying the study of curriculum and instruction. Cognate courses should thematically cohere, but can be drawn from a broad range of offerings across the university.

**Internships:** 6 credit hours

Research and university teaching internships are required to broaden the training and experience of students.

**Independent Research and Dissertation:** a minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

**Admission Requirements:** The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. Writing sample (approximately 10 pages in length).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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**Measurement Statistics Methodological Study (PhD) EDPSYMSPHD**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** PHD Educational Psychology (Measurement, Statistics and Methodological Studies)

**Program Description:** Students in the Ph.D. in measurement, statistics and methodological study focus their study on quantitative research methodologies,
educational statistics and psychometrics. Students specializing in measurement, statistics and methodological study will generally direct their professional efforts toward:

- Development and evaluation of techniques for the assessment of educational or psychological phenomena.
- Measurement of educational outcomes.
- Design and interpretation of research studies.
- Statistical methods for analyzing research data or outcomes of educational programs.

Graduates are employed in a variety of positions, such as professors in colleges or universities, data analysts in the public or private agencies, measurement specialists for government agencies or private companies or researchers and evaluators for schools or other institutions.

Program Requirement: The Ph.D. program in measurement, statistics and methodological studies requires a minimum of 84 credit hours beyond the bachelor’s degree. At least 54 of these hours must be taken at Arizona State University after admission to the Ph.D. program. The length of time required to complete the program varies from student to student. Students entering the program with a bachelor’s degree normally take at least four years. Students entering with a master’s degree in a related area typically take at least three years to complete the program. Students develop a program of study in consultation with their faculty advisor and the chair of the student’s doctoral committee. A comprehensive examination and successful defense of the dissertation are required.

Admission Requirements: The Graduate degree application is to be submitted online to the Graduate College.

Additional Materials:

1. GRE scores.
2. A statement of academic and career goals.
3. Resume or curriculum vitae.
4. Three letters of recommendation.

Forms for these items are available at http://education.asu.edu/about/academic_units/psyched/psyched_forms.dot.

For more information, see http://research.ed.asu.edu/main.html.

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**Physical Education (PhD) EDPHYEDPHD**  
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** PHD Curriculum and Instruction (Physical Education)

**Program Description:** The Ph.D. in curriculum and instruction with a concentration in physical education actively involves students in research at all stages of doctoral study. Sport pedagogy (or physical education pedagogy) is the youngest subdiscipline to emerge from the field of physical education over the past four decades. Sports pedagogy is comprised of three areas:

- Research on teaching.
- Research on teacher education.
- Research on curriculum.

It involves the empirical study of teaching and learning processes in various physical activity settings. Physical activity settings can include school based physical education programs and youth sport, interscholastic, collegiate and elite-level (e.g., Olympic) sport programs.

**Program Requirement:** The Ph.D. requires 84 credit hours, a dissertation, and written and oral comprehensive examinations.

The following domains comprise the physical education Ph.D. program:

**Area of concentration:** 30 credit hours pertaining to physical education. Although the majority of these hours must be spent in physical education, a sizable proportion may include course work in closely related fields such as education, exercise and wellness and kinesiology.

**Cognate study:** 12 credit hours are taken to broaden the student’s understanding of the conceptual base and issues underlying the study of curriculum and instruction. Students take related work outside their declared areas of concentration. Students are expected to choose courses that have a clear link to their dissertation efforts. Cognate studies can be drawn from a broad range of offerings across the university.

**Inquiry and analysis:** 15 credit hours of empirical analysis and inquiry foundations are required in advanced design and data analysis in quantitative and/or qualitative research methods.

**Core requirements in curriculum and instruction:** six credit hours of courses (interdisciplinary research seminar in curriculum and instruction and curriculum theory and practice) are required as the curriculum and instruction core.

**Practicum and integrative/professional development seminars:** six credit hours of research and university teaching internships are required to broaden the training and experience of students.
**Independent research and dissertation**: A minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

**Admission Requirements**: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts. Admission to the program is contingent upon the commitment from an approved mentor in the concentration to advise and mentor the applicant.

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**School Psychology (PhD) EDPSYSPHPH**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded**: PHD Educational Psychology (School Psychology)

**Program Description**: Students earn the Ph.D. in educational psychology with a concentration in school psychology. The goal of the School Psychology Program is the development of doctoral level scientist-practitioners who have strong research and applied skills and who bring an empirical, problem-solving perspective to their work. ASU, the Mary Lou Fulton Institute and Graduate School of Education supports school psychology doctoral training and research at a level that makes apprenticeship and close supervision available to students.

In addition to a broad base of psychological knowledge and specialized preparation in school psychology, the school psychology program includes course work and study in learning and instruction, human development, ethics and law, measurement and research design, and statistics. Course work is integrated with clinical fieldwork. It may also be complemented by courses in other programs and departments (e.g., clinical psychology, counseling psychology and special education). Students are afforded opportunities to become involved in research...
projects before they develop their dissertation proposal. The school psychology program at ASU is a full-time program which is conducted during the typical workweek.

*Program Requirement:* The program requires the following:

- A minimum of 84 credit hours.
- Written comprehensive examination.
- Successful defense of the dissertation.
- A one-year internship.

*Admission Requirements:* Students must submit:

1. Graduate College application.
2. GRE Scores.
3. A personal statement.
4. A summary of related experiences.
5. Three letters of recommendation.

For more detailed information, see [http://education.asu.edu/spy](http://education.asu.edu/spy).

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**Science Education (MA) EDSCIMA**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** MA Curriculum and Instruction (Science Education)

*Program Description:* This program is designed to cultivate an understanding of science education. Students in this program participate in core science education courses, and then have the opportunity to examine one aspect of science education in depth. This program is designed for the science educator who plans to pursue additional graduate work in science education.

*Program Requirement:* A minimum of 30 credit hours and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student's graduate committee. Each M.A. candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 credit hours in the program. Because of the research component, students enrolling in the M.A. degree typically need more than 30 hours to complete the degree. Each M.A.
candidate will complete a thesis after completing at least 24 hours in the program. Six credits of thesis are required along with a minimum of 24 credit hours of approved course work.

*Admission Requirements*: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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**Science Education (MEd) EDSCIMED**
Mary Lou Fulton Institute and Graduate School of Education

*Official Degree Awarded:* MEd Curriculum and Instruction (Science Education)

*Program Description:* The M.Ed. in curriculum and instruction with a concentration in science education is a practitioner’s degree program designed to facilitate development of advanced level professional knowledge, skills and understanding. Students in this program explore issues related to teaching and learning in science education, and study these issues in the context of their own classroom. This program is designed for the professional classroom science educator.

*Program Requirement:* A minimum of 30 hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity (written examination, research project or applied project) in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

*Admission Requirements*: The following are required:
1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Science Education (PhD) EDSCIPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Curriculum and Instruction (Science Education)

Program Description: The science education concentration in the Ph.D. program provides opportunities for research and study in the teaching and learning of science in the middle school, high school and higher education. Candidates may concentrate in the study of students’ science thinking, the design of learning and teaching environments, and the development and application of technologies for science learning. Program mentors hail from the Mary Lou Fulton Institute and Graduate School of Education and from the departments and schools of chemistry and biochemistry, earth and space exploration, life sciences and physics.

Program Requirement: The Ph.D. in curriculum and instruction with a concentration in science education requires a total of 84 credit hours.

Area of concentration: 30 credit hours pertaining to science education; a sizable proportion may include course work in closely related fields such as science education, human development, educational technology and graduate science.

Cognate study: 12 credit hours to broaden the student’s understanding of the conceptual base and issues underlying the study of curriculum and instruction.

Inquiry and analysis: 15 credit hours of empirical analysis and inquiry foundations are required in advanced design and data analysis in quantitative and/or qualitative research methods.

Core requirements: six credit hours of courses (interdisciplinary research seminar in curriculum and instruction and curriculum theory and practice).
Practicum and integrative/professional development seminars: six credit hours of research and university teaching internships to broaden the training and experience of students.

Internships: six credit hours.

Independent research and dissertation: A minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

Admission to the program is contingent upon the commitment from an approved mentor in the concentration to advise and mentor the applicant.

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Secondary Education (MA) EDSECONMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Curriculum and Instruction (Secondary Education)

Program Description: The M.A. in curriculum and instruction with a concentration in secondary education provides philosophical perspectives common in higher education. Students are exposed to critical thinking on issues including gender, culture, theoretical views of learning and minority education within the scope of secondary education. Students in this program study the U.S. educational system and are introduced to formal research.
Program Requirement: A minimum of 30 credit hours and a thesis is required for the M.A. in curriculum and instruction. Curriculum and instruction M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student’s graduate committee. Each M.A. candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 credit hours in the program.

Because of the research component, students enrolling in the M.A. degree typically need more than 30 hours to complete the degree. Each M.A. candidate will complete a thesis after completing at least 24 hours in the program. Six credits of thesis are required along with a minimum of 24 credit hours of approved course work.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Secondary Education (MEd) EDSECONMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (Secondary Education)

Program Description: The M.Ed. in curriculum and instruction with a concentration in secondary education program provides students with an in-depth knowledge of methods of teaching and content knowledge application. The program develops professional educators who are reflective practitioners dedicated to the scholarship of teaching in secondary education. This degree is considered a practitioner's degree that facilitates a higher level of successful teaching practices and content knowledge. For more information, see http://education.asu.edu/prospective_students/graduate_studies/ci_med.dot

For students looking for secondary teacher certification, the Education Institute offers two options:
1. INCITE: The Integrated Certification In Teacher Education (INCITE) candidates who complete the program receive an M.Ed. in curriculum and instruction with a concentration in secondary education and an institutional recommendation for secondary teacher certification in an academic area. Course work may qualify candidates for a middle grade endorsement if student teaching is completed in grades 5-9.

2. TEAMS: Teacher Education for Arizona Math and Science (TEAMS) candidates who complete the program receive an M.Ed. in curriculum and instruction with a concentration in secondary education and an institutional recommendation for secondary teacher certification in science or math. Course work qualifies candidates for a middle grade endorsement if student teaching is completed in grades 5-9. For more information, see http://education.asu.edu/prospective_students/graduate_studies/teams.dot.

Program Requirement: A minimum of 30 hours of graduate credit is required for the M.Ed. in curriculum and instruction. INCITE and TEAMS require 39 credit hours. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project, or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study. Students must choose their culminating activity in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Secondary Education (Reading) (MEd) TESERDGMED
Mary Lou Fulton Institute and Graduate School of Education
Official Degree Awarded: MEd Secondary Education (Reading)

Program Description: This program advances the knowledge and skill of future high school or middle school teachers. The program leads towards an Arizona state endorsement as a reading specialist. It is designed to assist practicing teachers acquire the knowledge base and skills necessary to develop and provide the most current instructional methods and materials for their students.

Program Requirement: Students must complete a total of 33 credit hours including 15 credits in their concentration and a comprehensive examination or an applied project, which completes the program.

Admission Requirements: Applicants must apply to the ASU Graduate College and to the specific program and concentration to which they seek admission. Admission to a degree program is based on:

- Undergraduate and/or graduate GPAs.
- Letters of recommendation.
- Personal statement.
- Work and academic experience.
- The availability of faculty to supervise academic areas of interest.
- Applicants to the elementary or secondary programs must hold valid Arizona teaching certificates for those grade levels unless they are pursuing an M.Ed. with certification.

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Social and Philosophical Foundations of Education (MA) EDSPFMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Social and Philosophical Foundations of Education

Program Description: Students seeking an M.A. in social and philosophical foundations of education have the opportunity to specialize in one of the following areas:

- Philosophy of education.
- Sociology of education.
- Anthropology of education.
- American Indian education policy.
- History of education and comparative and international education.
Due to the interdisciplinary nature of work in the social and philosophical foundations of education, students may take course work in related social sciences and the humanities.

The program of graduate studies in social and philosophical foundations of education prepares students for:

- Ph.D. programs in social science or education, philosophy and history,
- K-12 teaching with stronger influence on and understanding of school, district and state education policy. Teachers also gain methodology and theoretical applications that can result in a more successful and critical-thinking pedagogy,
- Leadership roles in district and state level curriculum development and the conceptualization of educational programs and reforms.

*Program Requirement:* A minimum of 30 credit hours of course work, six hours of which are earned for a master's thesis, or its equivalent and a comprehensive examination are required. The Graduate College allows students to substitute other experiences for the thesis. For example, students may prepare publishable research papers and present their findings to their peers and faculty in specially arranged colloquia. The equivalency requirement will be worked out by the student’s committee. In addition, courses in social and philosophical foundations, choosing both a concentration and a cognate discipline (e.g. sociology, anthropology, philosophy). Additional course work in education is recommended.

*Admission Requirements:* To be considered students must submit the following information.

To the Graduate College:

1. A Graduate College online application.
2. Application fee.

To the Division of Educational Leadership and Policy Studies:

2. Resume.
3. Three letters of recommendation.
4. GRE scores are not required.

This program is on a rolling admission basis. Applications are reviewed as soon as files are complete.

*Contact:*
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delps@asu.edu
Social Studies Education (MEd) EDSOCSTMED
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MEd Curriculum and Instruction (Social Studies Education)

Program Description: The M.Ed. in curriculum and instruction with a concentration in social studies education is a practitioner's degree program designed to facilitate development of advanced level professional knowledge, skills and understanding. This program provides students with an in-depth knowledge of methods of teaching and content knowledge in social studies. This degree is considered to be a practitioner's degree that facilitates a higher level of successful teaching practices and content knowledge.

Program Requirement: A minimum of 30 hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing at least 24 of the 30 credit hours listed on the program of study.

Students must choose their culminating activity (written examination, research project or applied project) in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

Admission Requirements: The following are required:

1. A Graduate College online application.
2. Transcripts.
3. Three letters of recommendation from individuals within academic/professional affiliations must be submitted. These letters should address your ability to successfully complete a graduate degree program in curriculum and instruction.

Additional materials may be required to gain admission into certain programs or cohorts.

Contact:
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Special Education (MA) EDSPEDMA
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: MA Special Education

Program Description: The M.A. in special education is a research degree program designed to facilitate advanced development of knowledge, skill and understanding of special education. The program is designed for students who are interested in developing and extending research competencies. Students graduating from this program will demonstrate the ability to conduct research related to special education and are prepared to pursue doctoral education in various areas of exceptionalities. The program structure includes coursework in special education, research and statistics.

Program Requirement: A minimum of 36 credit hours and a thesis is required for the M.A. in special education. Special education M.A. students are assigned an advisor at the time of their admission. The advisor assists in selecting the graduate committee and serves as chair of the student's graduate committee. Each M.A. candidate must form a graduate committee in consultation with the advisor and complete a thesis, under the direction of the thesis advisor. The graduate program committee must be formed prior to completing 12 hours of credit in the program. Because of the research component, students enrolling in the M.A. degree typically need more than 36 hours to complete the degree. Each MA candidate will complete a thesis after completing at least 24 hours in the program. Six credits of thesis are required along with a minimum of 30 credit hours of approved course work.

Course work will include a minimum of 15 hours in special education and a minimum of 12 hours in research. The research courses will include one research design course, one or more statistics or qualitative methods courses, and six hours of thesis.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.
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**Special Education (MEd) EDSPE2MED**
Mary Lou Fulton Institute and Graduate School of Education

**Official Degree Awarded:** MEd Special Education

**Program Description:** The M.Ed. in special education is a practitioner's degree program designed to facilitate advanced development of knowledge, skill, and understanding of special education. The M.Ed. degree focuses on the development of master teachers in special education. Specific emphasis is offered in the areas of mild disabilities, the education of gifted learners and bilingual/multicultural exceptional learners. The program structure includes course work in methods of instruction, educational evaluation, behavior management, inclusive teaching and practices, and the four content theme areas of:

- Learning and instruction.
- Diversity.
- Foundations and practices.
- Research and technology.

A teacher certification option in learning disabilities, behavioral disorders and mental retardation is available in conjunction with the M.Ed. For more information access [http://education.asu.edu/prospective_students/graduate_studies/special_education/](http://education.asu.edu/prospective_students/graduate_studies/special_education/).

**Program Requirement:** A minimum of 36 hours of graduate credit is required for the M.Ed. in special education. Additionally, students completing the teacher certification option will enroll for nine credit hours of student teaching, hence the M.Ed. with teacher certification requires a total of 45 credit hours. Each student is assigned a graduate advisor to design the program of study in consultation with the graduate committee. Students in this program will complete a comprehensive paper as a culminating activity after completing at least 27 of the 36 credit hours listed on the program of study. Students must complete a comprehensive paper proposal to their faculty advisor and graduate committee members before completing their program of study and beginning the final paper. Students should meet with their faculty advisor and graduate committee members regularly after the paper proposal is approved. For more information, refer to the special education student handbook.

**Admission Requirements:** The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant's potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

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Special Education (PhD) EDSPECPHD
Mary Lou Fulton Institute and Graduate School of Education

Official Degree Awarded: PHD Curriculum and Instruction (Special Education)

Program Description: The Ph.D. concentration in special education, which is designed to produce teacher educators and researchers in special education, is an integral part of the interdisciplinary Ph.D. in curriculum and instruction program. The corresponding goals of the Ph.D. program in special education are to:

The program:

1. Produces research scholars who can add to the knowledge base underlying special education.
2. Provides experts in the design, implementation, and evaluation of special education personnel preparation programs at the preservice and inservice levels.
3. Provides students with comprehensive training that meets professionally recognized standards for the preparation of leadership personnel in special education and a related discipline.
4. Provides students with the skills necessary to meet their research, teaching, and service activities associated with faculty positions at a full range of institutions of higher education or other professional roles.

Program Requirement: The Ph.D. requires 84 credit hours, a dissertation, and written and oral comprehensive examinations. Our doctoral curriculum typically requires three years of graduate study including at least a year-long residency on campus. Each year of study involves coursework pertaining to theory, research and practice in special education.
The curriculum provides students with a core set of courses, seminars, internships and research experiences to ensure that they meet professionally recognized standards for the preparation of leadership personnel in special education and in related disciplines; however, the curriculum is unique in that it builds upon this core by integrating a set of experiential research, teaching and service activities into students’ programs of study.

Our doctoral curriculum program of study is divided into six basic domains:

1. Core requirements in special education.
2. Core requirements in a related discipline.
4. Core requirements in curriculum and instruction.
5. Practicum and integrative/professional development seminars.
6. Dissertation and independent research.

Each student's program of study includes a series of experiences to enhance his/her mastery of their current and future research, teaching and service responsibilities as a professional in special education.

**Core Requirements in Six Domains**

Domain 1: core requirements in special education. Our special education program requirement consists of 30 credit hours focusing on course work pertaining to assessment, intervention, consultation and specific problem areas in the field of special education.

Domain 2: core requirements in a related discipline. These requirements consist of 12 credit hours in which doctoral students are provided crossover training opportunities in related disciplines that meet the professionally recognized standards for doctoral study in those disciplines. The course and field experience requirements in each of the related disciplines are specific to the discipline.

Domain 3: empirical foundations. Our empirical analysis and inquiry foundations requirement consists of 15 credit hours beginning with basic statistical analysis and intermediate statistical analysis.

Three other courses are also required:

1. Introduction to Qualitative Research.
2. Introduction to Quantitative Research.
3. A course from the following list:

   - Statistical Computing and Consulting Problems
   - Advanced Statistical Analysis
   - Categorical and Nonparametric Data Analysis
Graphical and Exploratory Data Analysis
Advanced Qualitative Analysis

Domain 4: core requirements in curriculum and instruction. The curriculum and instruction core requirement consists of six credit hours:

DCI 701 Curriculum Theory and Practice
DCI 702 Interdisciplinary Research Seminar in Curriculum and Instruction

Domain 5: practicum and integrative/professional development seminars. Our practicum requirement consists of at least six credit hours of research and university teaching three two-credit-hour internships. The purpose of the internships is to broaden the training and experiences of students. In addition, doctoral students are encouraged to participate in the Preparing Future Faculty Program offered by the Graduate College. This program consists of two semester hours of faculty roles, responsibilities and participation in an ongoing series of integrative and collaborative seminars coordinated with the Graduate College. Students have the opportunity to develop and participate in interdisciplinary research, teaching and service activities.

Domain 6: Independent research and dissertation: a minimum of three credit hours of research and 12 credit hours of dissertation leading to completion of an approved dissertation are required.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Curriculum vitae (resume).
5. Statement of research interests.
6. A writing sample (approximately 10 pages long).
7. GRE scores.
8. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program.

Additional materials may be required to gain admission into certain programs or cohorts.

Admission to the program is contingent upon the commitment from an approved mentor in the concentration to advise and mentor the applicant.

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Technology for Teaching and Learning (Grad Certificate) EDEDTTGRCT

Official Degree Awarded: CERT Technology for Teaching and Learning (certificate)

Program Description: The graduate certificate in technology for teaching and learning is geared towards classroom teachers who want to become skilled at integrating technology in the curriculum. Students will acquire the knowledge and skills needed to meet the National Education Technology Standards for Teachers (NETS) developed by the International Society for Technology in Education (ISTE) and being adopted by the National Council for Accreditation for Teacher Education (NCATE). All courses will be offered online and face-to-face. The certificate program can be completed within a two-year period.

Program Requirement: This certificate program is comprised of 15 credit hours of course work. Students must successfully complete four out of a possible six educational technology courses before completing a three-credit required capstone course.

Admission Requirements: The graduate certificate in technology for teaching and learning is available to all ASU graduate students provided they meet eligibility criteria. To be eligible for this program, the applicant must:

1. Hold a bachelor’s degree or equivalent from a regionally accredited institution.
2. Have a cumulative junior/senior undergraduate GPA of 2.50 or higher.
3. Students interested in earning this certificate must apply to the certificate program via the online Graduate College application.

Applicants will also need to supply:

1. A curriculum vitae or resume.
2. One set of official transcripts from every college and university (excluding ASU) that they have attended.

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Engineering, Ira A. Fulton School of

Aerospace Engineering (MS) ESAEROSPMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Aerospace Engineering
Program Description: The faculty in mechanical and aerospace engineering offer a graduate program leading to the M.S. in aerospace engineering. A number of wide and diverse research areas may be pursued. All the graduate programs stress a sound foundation leading to a specialized area of study. Additional information can be found in the Mechanical and Aerospace Engineering guidelines at http://mae.fulton.asu.edu/graduate

Program Requirement: The M.S. is the research master’s degree; majors in aerospace engineering and mechanical engineering are available. Candidates for the M.S. degree must complete a minimum of 30 credit hours.

The student is encouraged to select a program committee chair (faculty advisor) as soon as possible but must select a program committee chair prior to completing 15 credit hours. The name of the student’s program committee chair must be filed with the graduate programs office. A change of program committee chair requires the approval of the Mechanical and Aerospace Engineering (MAE) programs office.

The program committee chair, in consultation with the student, will establish a Master of Science Program Committee (MSPC). The MSPC shall be composed of a minimum of three members from the ASU faculty with at least two being from the mechanical and aerospace engineering faculty. Participation of individuals from institutions external to ASU is encouraged but these shall be non-voting members.

As soon as possible, but prior to completing 15 credit hours, the student, in consultation with the program committee chair, must file a program of study (POS) with the University. The MSPC and the graduate programs office must approve changes to the POS.

The POS must be in accordance with university and program requirements. For students currently enrolled in a master’s degree program at another institution and wishing to transfer to ASU, note that a maximum of six credit hours may be counted toward an M.S. at ASU. A minimum cumulative GPA of 3.00 is required throughout the program. Candidates for the M.S. must complete a minimum of 30 credit hours of course and thesis work distributed as follows:

- At least 12 credit hours of course work directly related to the research area.
- At least six credit hours of mathematics.
- At least six credit hours of graduate courses outside the major research area; these must be in mathematics, engineering and/or science.
- Six credit hours of MAE 599 thesis.

A final defense of the thesis will be administered by the MSPC.

Admission Requirements:

1. Student interested in applying to this program must submit the Graduate College online application. A minimum GPA of 3.00 (on a 4.00 scale) is
required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.

2. All applicants are required to take the GRE.

3. Students who do not have English as their primary language are required to achieve a minimum score of 80 on the internet-based Test of English as a Foreign Language (TOEFL).

4. Three letters of recommendation are required, using the format specified by Mechanical and Aerospace Engineering.

5. All applicants are required to submit a statement of academic and career objectives and address the desire to pursue graduate studies at ASU in mechanical engineering.

Contact:
Mechanical and Aerospace Engineering Program
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Aerospace Engineering (MSE) ESAERSPMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Aerospace Engineering

Program Description: The mechanical and aerospace engineering faculty offer a graduate program leading to the M.S.E. in aerospace engineering. A number of wide and diverse research areas may be pursued. All Mechanical and Aerospace graduate programs stress a sound foundation leading to a specialized area of study. Additional information can be found in the Mechanical and Aerospace Engineering guidelines at http://mae.fulton.asu.edu/graduate/.

Program Requirement: The M.S.E. is the professional degree; majors in aerospace engineering and mechanical engineering are offered. Only the non-thesis option is available for mechanical and aerospace engineering. Candidates for the M.S.E. degree must complete a minimum of 30 credit hours.

The student is encouraged to select a program committee chair (faculty advisor) as soon as possible but must select a program committee chair prior to completing 15 credit hours. The name of the student’s program committee chair must be filed with the graduate programs office. A change of program committee chair requires approval of the Mechanical and Aerospace Engineering programs office.

The program committee chair, in consultation with the student, will establish a Master of Science in Engineering Program Committee. The committee shall be composed of a minimum of three members from the ASU faculty with at least two being from mechanical and aerospace engineering faculty.

As soon as possible, but prior to completing 15 credit hours, the student, in
consultation with the program committee chair, must file a program of study (POS) with the university. The committee and the mechanical and aerospace engineering programs office must approve changes to the POS.

The POS must be in accordance with university and program requirements. For students currently enrolled in a master’s degree program at another institution and wishing to transfer to ASU, note that a maximum of six credit hours may be counted toward an M.S.E. at ASU. A minimum cumulative GPA of 3.00 is required throughout the program. Candidates for the M.S.E. must complete a minimum of 30 credit hours of course work distributed as follows:

- At least 15 credit hours of course work directly related to a research area.
- At least six credit hours of mathematics.
- At least nine credit hours of graduate courses outside the major research area; these may be engineering, science, mathematics, or other areas approved by the student’s program committee, the director of graduate studies and the graduate programs office.

A final comprehensive examination or applied project will be administered by the MSEPC. The purpose of this culminating event is to determine the student’s ability to integrate the knowledge gained in his or her course work.

**Admission Requirements:**

1. Student interested in applying to this program must submit the Graduate College online application. A minimum GPA of 3.00 (on a 4.00 scale) is required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.
2. All applicants are required to take the GRE.
3. Students who do not have English as their primary language are required to achieve a minimum score of 80 on the internet-based Test of English as a Foreign Language (TOEFL).
4. Three letters of recommendation are required, using the format specified by Mechanical and Aerospace Engineering.
5. All applicants are required to submit a statement of academic and career objectives and address the desire to pursue graduate studies at ASU in mechanical engineering.

**Contact:**

Mechanical and Aerospace Engineering Program  
http://mae.fulton.asu.edu/  
mae@asu.edu  
ECG 325  
480/965-7261

**Aerospace Engineering (PhD) ESAERSPPHD**  
Ira A. Fulton School of Engineering
**Official Degree Awarded:** PHD Aerospace Engineering

**Program Description:** The graduate programs in Mechanical and Aerospace Engineering accommodate individual interests, and encourage independent and innovative study. Students are part of a diverse intellectual community dedicated to advancing the state of the art and practice of aerospace and mechanical engineering. All graduate programs stress a sound foundation in technical fundamentals, communication and professionalism. Additional information can be found in the Mechanical and Aerospace Engineering guidelines at http://mae.fulton.asu.edu/graduate/.

**Program Requirement:** The Ph.D. is directed toward original research. Candidates for the Ph.D. must complete a minimum of 84 credit hours. The student is required to write and defend a dissertation that describes an original contribution within the chosen discipline. The research results should be suitable for publication in a reputable journal. The Ph.D. is currently offered for majors in aerospace engineering and mechanical engineering.

The student must select a program committee chair (faculty advisor) with the selection being made prior to completing 42 credit hours. The program committee chair’s name must be filed with the graduate programs office. A change of program committee chair requires approval of the mechanical and aerospace engineering programs office.

A graduate student pursuing a Ph.D. program of study in aerospace or mechanical engineering must complete within the first year of his/her graduate studies at ASU: three 500-level (preferably core) courses in the major area and one 500-level mathematics course with an average GPA of 3.25 or above. Specific qualifying course requirements for each major area are identified in the mechanical and aerospace engineering graduate guidelines.

University regulations note the possibility of having two separate supervisory committees, a program committee and a dissertation committee. In Mechanical and Aerospace Engineering, these will normally be one and the same and will be designated as the program committee. The committee chair, in consultation with the student, will establish a program committee, the purposes of which are to:

1. Approve the program of study (POS).
2. Provide guidance for the student’s research.
3. Administer the comprehensive examination.
4. Administer the dissertation defense.

The program committee shall consist of at least five ASU faculty with the majority being from mechanical and aerospace engineering, but at least one being from outside Mechanical and Aerospace Engineering. Participation of individuals from institutions external to ASU is encouraged, but these shall be non-voting members. Furthermore, the program committee should have the following character:
1. Advisor (program committee chair); must be from mechanical and aerospace engineering faculty.
2. Two or three additional faculty in the student’s general area of research.
3. At least one faculty outside the student’s general area of research (e.g., mathematics, physics or other engineering disciplines).

Note: A change in the program committee requires approval of the graduate programs office.

The student, in consultation with his/her program committee chair and the program committee, must file a POS prior to completing 42 credit hours. The POS must meet general university requirements, including residency and the need for rigorous fundamental knowledge of engineering principles. Thirty credit hours of appropriate course work from a previously earned master’s degree may be applied toward the total credit hours; at least 54 hours must be taken at ASU. A minimum cumulative GPA of 3.25 is required. Ph.D. candidates must complete a minimum of 84 credit hours of course and dissertation work, distributed as follows.

- At least 18 credit hours of course work directly related to the research area (major).
- At least nine credit hours of mathematics.
- At least nine credit hours of graduate courses outside the major research area; these must be in mathematics, engineering and/or science.
- 12 hours of mechanical and aerospace engineering 799 dissertation.
- MAE 792 research credit hours may be applied toward the 84 total hours.

All students intending to earn the Ph.D. are required to pass a comprehensive examination. The examination will be administered by the program committee and consists of two parts:

1. Subject matter examination
   - The purpose of this portion of the examination is to determine a student’s grasp of essential concepts relevant to the Ph.D. in general and the student’s ability to project beyond existing knowledge. Written and oral questions covering the student’s graduate course work must be included.

2. Research proposal
   - The purpose of this portion of the examination is to evaluate a student’s research acumen and ability to develop and present an original research proposal; and, equally important, to advise the student in finalizing successful research goals and procedures. The formal written proposal containing the research goals, methodology, expected results and contributions of publishable quality will be defended orally before the entire committee.
The comprehensive examination is taken soon after completing the Ph.D. qualifying requirements and at least one academic year prior to making the dissertation defense. Qualified Ph.D. students should take the examination by their fifth semester as full-time students in the mechanical and aerospace engineering Ph.D. program and must pass the examination by the end of the sixth semester. Part-time students should apprise the Mechanical and Aerospace Engineering programs office of a timely schedule for examination completion. Ph.D. students achieve candidacy status in a letter from the Graduate College dean upon passing the comprehensive examination and successfully defending the dissertation prospectus.

The dissertation defense is an oral examination administered by the program committee in accordance with Graduate College guidelines. The purpose of the examination is to evaluate the student’s research efforts and written presentation (dissertation), and to determine if the candidate is worthy of receiving a Ph.D. The major area of emphasis of this examination is the student’s research dissertation and the general areas of study related thereto. The final dissertation defense must be taken within five years of passing the comprehensive examination.

Admission Requirements:

1. Student interested in applying to this program must submit the Graduate College online application. A minimum GPA of 3.00 (on a 4.00 scale) is required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.
2. All applicants are required to take the GRE.
3. Students who do not have English as their primary language are required to achieve a minimum score of 80 on the internet-based Test of English as a Foreign Language (TOEFL).
4. Three letters of recommendation are required, using the format specified by Mechanical and Aerospace Engineering.
5. All applicants are required to submit a statement of academic and career objectives and address the desire to pursue graduate studies at ASU in mechanical engineering.

Contact:
Mechanical and Aerospace Engineering Program
http://mae.fulton.asu.edu
mae@asu.edu
ECG 325
480/965-7261

Bioengineering (MS) ESBIOENMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Bioengineering
Program Description: The Harrington bioengineering faculty offer a graduate program leading to the M.S. in bioengineering.

Areas of study include neural engineering, molecular, cellular and tissue engineering, biomedical imaging and informatics, rehabilitation engineering and biomaterials. Bioengineering offers both thesis and nonthesis M.S. degrees to those students who meet the criteria for successful graduate study.

Bioengineering offers a joint B.S.E. and nonthesis M.S. in the bioengineering degree program. The program allows up to nine credit hours of graduate-level course work taken as technical electives during the senior year to be applied toward both the undergraduate and graduate degrees.

Program Requirement: All candidates pursuing an M.S. bioengineering are required to complete an approved plan of study consisting of the minimum of 33 (thesis) or 36 (non-thesis) required credit hours, including research and thesis, if applicable. Special course requirements for the different areas of study are established by the faculty.

Candidates whose undergraduate degree is in a field other than bioengineering may be required to complete more than the required credit hours of the program of study.

The following are program requirements for the thesis M.S., for a total of 33 credits:

- Bioengineering course work (9)
- Mathematical electives (6)
- General electives (9)
- Bioengineering seminar (3)
- Thesis (6)

The following are program requirements for the nonthesis M.S., for a total of 36 credits:

- Bioengineering course work (15)
- Mathematical electives (6)
- General electives (9)
- Bioengineering seminar (3)
- Applied project (3)

Admission Requirements: In addition to the general requirements for admission to the Graduate College, applicants must submit the following directly to the Graduate College:

1. Official GRE scores.
2. Official Test of English as a Foreign Language (TOEFL) scores, if applicable.
3. A statement of purpose.
4. Resume or curriculum vitae.
5. Three letters of recommendation.

The application deadline for fall admission is Dec. 31 of the previous year (i.e., a student wishing to enroll for fall 2009 will need to apply by Dec. 31, 2008).

The application deadline for spring admission is Aug. 31 of the previous year (i.e., a student wishing to enroll for spring 2010 will need to apply by Aug. 31, 2009).

Contact:
Harrington Bioengineering Program
http://engineering.asu.edu/bhse
bmerec@asu.edu
ECG 334
480/965-3028

Bioengineering (PhD) ESBIOENPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Bioengineering

Program Description: The Harrington bioengineering faculty offer a graduate program leading to the Ph.D. in bioengineering. Areas of study include neural engineering, molecular, cellular and tissue engineering, biomedical imaging and informatics, rehabilitation engineering and biomaterials. The Ph.D. in bioengineering is conferred upon evidence of excellence in research resulting in a scholarly dissertation that is a contribution to knowledge.

Program Requirement: Ph.D. students must complete the following:

1. A minimum of 84 credit hours of course work.
3. An oral examination.
4. A written examination.

Required Bioengineering Courses

Doctoral students are required to complete the following core curriculum of nine credits:

- BME 598 Engineering Models for Physiological for Engineers (4)
- BME 598 Modeling for Molecular/Cellular Engineering (4)
- BME 598 Scientific Communication (1)

All students must complete the two courses listed below in their chosen track, for a total of eight credits:

Neural Engineering Track

Academic Catalog Archive 2009-10  344
BME 598 Introduction to Neural Engineering (4)
BME 598 Computational Neuroscience (4)

Molecular Cellular and Tissue Engineering Track
BME 598 Advanced Bioengineering Transport (4)
BME 598 Advanced Biomaterials (4)

Bioimaging and Bioinformatics Track
BME598/BMI591 Introduction to Biomedical Informatics (4)
BME598/BMI591 Introduction to Biomedical Imaging Informatics (4)

Technical Electives
No fewer than 12 credit hours of course work (as determined by the student's committee)

Research/Dissertation
BME 792 Research (40)
BME 799 Dissertation (12)

Seminar
BME 591 (3)

Admission Requirements: In addition to the general requirements for admission to the Graduate College, applicants must submit the following directly to the Graduate College:

1. Official GRE scores.
2. Official Test of English as a Foreign Language (TOEFL) scores, if applicable.
3. A statement of purpose.
4. Resume or curriculum vitae.
5. Three letters of recommendation.

The application deadline for fall admission is Dec. 31 of the previous year (i.e., a student wishing to enroll for fall 2009 will need to apply by Dec. 31, 2008).

The application deadline for spring admission is Aug. 31 of the previous year (i.e., a student wishing to enroll for spring 2010 will need to apply by Aug. 31, 2009.)

Contact:
Harrington Bioengineering Program
http://engineering.asu.edu/bhse
bmerec@asu.edu
ECG 334
480/965-3028
Biomedical Informatics (MS) ESBIOINFMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Biomedical Informatics

Program Description: The M.S. in biomedical informatics is designed to meet the rapidly growing need for professionals in the field with preparation that integrates technological expertise in informatics, computer sciences, biosciences and mathematical statistics with a knowledge of the clinical environment in the healthcare professions.

The program will feature a sequence of courses specifically designed to bring together clinicians and researchers in teams, applying new developments in informatics theory to clinical practice. This program is supported by our collaborators including Banner Health, Barrow Neurological Institute, Mayo Clinic, Phoenix Program and The University of Arizona College of Medicine. This approach will make the M.S. in biomedical informatics program at ASU distinctive, if not unique, among biomedical informatics programs in the United States. Students will take courses in such areas as public health, clinical environments, bioinformatics and statistics, and cognitive sciences.

Program Requirement: Due to the diverse academic backgrounds of students requesting admission into this program, many will find it necessary to take some course work in preparation. However, all students will take 30 credit hours of graduate-level course work including 12 hours of mandatory course work as outlined below:

- BMI 501 Introduction to Biomedical Informatics (3)
- BMI 502 Foundations of Biomedical Informatics Methods I (3)
- BMI 505 Foundations of Biomedical Informatics Methods II (3)
- BMI 540 Problem Solving in Biomedical Informatics (3)

The other 18 hours will include 12 hours of elective course work and six hours of research credit to be applied to the completion of a scientific paper.

Admission Requirements: Students interested in applying to this program must submit an online application to the Graduate College. An applicant to the M.S. in biomedical informatics program should have earned a bachelor’s degree in biology, computer science, engineering, nursing, physiology, psychology and statistics.

Applicants who have earned degrees in other unrelated fields with appropriate academic backgrounds will also be considered. However, all applicants must have basic competencies in college-level calculus (similar to MAT 170), general biology (similar to BIO 188) or physiology, statistics (similar to STP 226) and basic computer programming (similar to CSE 100 or 110).

The applicant’s undergraduate GPA, statement of purpose and depth of preparation in their field are the primary factors affecting admission. Every applicant must
submit scores for the GRE or any other graduate-level entry examination. An international student must also submit Test of English as a Foreign Language (TOEFL) scores.

Contact:
Department of Biomedical Informatics Program
http://bmi.asu.edu
Kaitlin.Yacob@asu.edu
ABC1
602/827-2547

Biomedical Informatics (PHD) ESBMIPHDEC
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Biomedical Informatics

Program Description: The biomedical informatics faculty offers a graduate program leading to the Ph.D. in biomedical informatics. The core program features courses specifically designed to bring together clinicians, biological scientists and informatics researchers to apply new developments in informatics theory to clinical or biological practice.

Additional concentration course work in an area of focus and emphasis on independent research are intended to place these students at the leading edge of the field. Strong collaborative relationships with a variety of health care organizations, the bioscience industry and governmental agencies provide an unparalleled opportunity for doctoral students to explore and contribute to advances in bioinformatics and informatics related to imaging, clinical medicine and public health. Students may explore special foci on cross-cutting areas, such as cognitive science, data mining, predictive modeling, embedded sensors and simulation.

Program Requirement: Due to the diverse academic backgrounds of students requesting admission into this program, many will find it necessary to take some course work in preparation. However, all students will take 84 credit hours of approved graduate-level course work, including 17 credit hours of mandatory courses listed below:

- BMI 501 Introduction to Biomedical Informatics (3)
- BMI 502 Foundations of Biomedical Informatics Methods I (3)
- BMI 505 Foundations of Biomedical Informatics Methods II (3)
- BMI 515 Advanced Biostatistical Methods (3)
- BMI 540 Problem Solving in Biomedical Informatics (3)
- BMI 560 Teaching in Biomedical Informatics (3)

Students must also complete a dissertation and pass oral comprehensive examinations.
Admission Requirements: Students interested in applying to this program must submit an online application to the Graduate College. An applicant to the Ph.D. in biomedical informatics program should have earned a bachelor’s degree in biology, clinical discipline (i.e., medicine), computer science, engineering, physiology, psychology, nursing and statistics.

Student applicants who have earned degrees in other unrelated fields with appropriate academic backgrounds will also be considered. However, all applicants must have basic competencies in anatomy and physiology, college calculus, computer programming, general biology and statistics.

The applicant’s undergraduate GPA, statement of purpose and depth of preparation in their field are the primary factors affecting admission. Every applicant must submit:

1. Scores for the GRE. Verbal, quantitative and analytical required; the subject test is optional.
2. Any other graduate-level entry examination.
3. An international student must also submit Test of English as a Foreign Language (TOEFL) scores.

Contact:
Department of Biomedical Informatics Program
http://bmi.asu.edu
Kaitlin.Yacob@asu.edu
ABC1
602/827-2547

Chemical Engineering (MS) ESCHMEMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Chemical Engineering

Program Description: The chemical engineering faculty offer a graduate program leading to the M.S. in chemical engineering. Areas of research emphasis include atmospheric aerosols, biomolecular engineering, biosensors, chemical therapies for neurodegenerative diseases, electrochemistry, electronic materials processing, engineering education, flexible display technology, fuel cells, inorganic membranes, process design and operations, protein synthesis, transport phenomena in living systems and water purification.

A graduate handbook detailing information on graduate studies in chemical engineering, is available online at http://che.fulton.asu.edu/graduate/resources-forms. Students should contact the graduate programs office for additional details.

Program Requirement: All candidates for the M.S. in chemical engineering are required to complete an approved program of study consisting of 33 required credit hours and a thesis. The required course work for this degree is divided into the
following categories:

**Chemical Engineering Core Requirements:** Students are required to take 15 credit hours of graduate-level chemical engineering courses, exclusive of seminar (CHE 591), deficiency courses (CHE 501-505), Research/Thesis (CHE 592/599) and Reading and Conference (CHE 590).

Of these 15 hours, a minimum of three courses (nine hours) must come from the following list:

- CHE 527 Advanced Applied Mathematical Analysis in Chemical Engineering (3)
- CHE 533 Transport Processes I (3)
- CHE 543 Thermodynamics of Chemical Systems (3)
- CHE 544 Chemical Reactor Engineering (3)
- CHE 598 Research Methods (3)

**Technical Electives:** Masters candidates must select a minimum of nine hours of graduate-level elective courses (beyond the required 15 hours of CHE core requirements) if they take only six hours of thesis. Six hours of technical electives are required if the student elects to take nine hours of combined thesis/research (which includes six hours of thesis and three hours of research). At least one technical elective course (three hours) must be taken from outside of chemical engineering.

400-level courses in programs outside of chemical engineering are considered appropriate technical electives unless the course content significantly matches that of 300-level or lower courses in engineering. For instance, STP 420 does not qualify as a valid technical elective because it is similar to ECE 383. Any questions on course validity for the technical elective requirement should be addressed to the student’s committee chair and/or the graduate coordinator.

CHE 590 Reading and Conference may be taken as a technical elective only once, for a maximum of three credits.

**Research/Thesis:** Each student must register for a combined total of either six or nine credit hours of research (CHE 592) and/or thesis (CHE 599). This total must include six credit hours of thesis.

**Seminar:** All full-time chemical engineering graduate students are required to successfully complete the seminar course (CHE 591) during every semester of residence. Part-time students are required to complete CHE 591 at least three times. Only three hours of seminar apply toward the M.S., regardless of how many times it is taken.
Candidates whose undergraduate degree was in a field other than chemical engineering may be required to complete more than 33 credit hours.

*Admission Requirements: Apply to the M.S. program are required to submit the following:

1. Graduate College online admissions application.
2. Application fee.
3. Three letters of recommendation from faculty or professionals who can comment on your research and scholarly capabilities.
4. GRE scores.
5. Official Test of English as a Foreign Language (TOEFL) scores, for international students only.

*Contact:*
Chemical Engineering Program
http://engineering.asu.edu/graduate/che
che@asu.edu
ECG 202
480/965-3313

**Chemical Engineering (MSE) ESCHMEMSE**
Ira A. Fulton School of Engineering

**Official Degree Awarded:** MSE Chemical Engineering

*Program Description:* The chemical engineering faculty offer a professional program leading to the M.S.E. in chemical engineering. The program is designed to bridge the gap between knowledge of engineering sciences and creative engineering practice while at the same time increasing the depth and breadth of knowledge in selected areas of emphasis. The pattern of course work applicable to the degree is potentially unique for each student, although it must conform to the general guidelines for subject matter for the degree as authorized here.

Two options are available within the M.S.E. program. The first is a general M.S.E., where students follow the same course outline as required by the M.S., except that they will substitute thesis/research hours with additional elective course work. The second is a M.S.E. with a specialization in semiconductor processing and manufacturing. Both options require completion of an applied project, rather than a thesis, at the conclusion of program course work. Note that financial assistance is not available to students who elect an M.S.E. program.

*Program Requirement:* In general, all candidates for the M.S.E. are required to complete 33 credit hours and an applied project. Additional courses may be assigned by the supervisory committee depending on the background of the candidate. Specific requirements for the two M.S.E. program options are outlined below:
**Option 1:** General M.S.E. in chemical engineering (non-thesis).

Students who choose this option follow the requirements for the M.S. (see M.S. program requirements), but will replace the thesis/research credits with additional credit hours of course work. In addition, M.S.E. students must take three credit hours of seminar. This degree requires a total of 33 credit hours.

After completing the course work, students must complete a report, typically 15-20 double-spaced pages, plus figures, on a topic of their choice (the topic needs to be approved by their committee). At the conclusion of the report, the student will make an oral presentation on the topic to his/her committee.

**Option 2:** M.S.E. in chemical engineering with a specialization in semiconductor processing and manufacturing (non-thesis).

The M.S.E. in chemical engineering and a specialization in semiconductor processing and manufacturing, involves a total of 33 credit hours. After completing the course work, students must complete a report, typically 15-20 double-spaced pages, plus figures, on a topic of their choice (the topic needs to be approved by their committee). At the conclusion of the report, the student will make an oral presentation on the topic to his/her committee. The following courses are required for this degree:

- CHE 458/598 Semiconductor Material Processing (3)
- CHE 598 Deposition and Etching (3)
- EEE 591 Fundamentals of Solid State Devices (3)
- IEE 570 or IEE 572 Advanced Quality Control Design of Engineering Experiments (3)
- MSE 598 Materials Issues in Semiconductor Processing (3)

1. Six credits of chemical engineering electives at the 520 level or higher.
2. Six credits of technical electives at the 500 level or higher.
3. Three credits of a technical elective at the 400 level or higher.

Seminar: In addition to the 30 credits listed above, three credits of the one-unit graduate seminar (CHE 591) are required. Online students can substitute an additional technical elective (500-level or higher) for this requirement.

**Admission Requirements:** Applicants to the M.S.E. program are required to submit the following:

1. Graduate College online admission application.
2. Application fee.
3. Three letters of recommendation from faculty or professionals who can comment on your research and scholarly capabilities.
4. Official Test of English as a Foreign Language (TOEFL) scores, for international students only. Chemical Engineering requires a minimum of
600 for paper-based and 100 for Internet-based for admissions consideration).

5. Current resume.
6. Statement of purpose, describing your research interests and reasons for seeking a degree in chemical engineering.
7. Official transcripts from all prior institutions attended.

Please view the following link for specific admissions procedures:
http://che.fulton.asu.edu/graduate/admissions.

Students applying for the M.S.E. in chemical engineering may have an B.S. in a field other than chemical engineering. The qualifications of transition students are reviewed by the chemical engineering graduate admissions committee, and a special program is designed for successful applicants. Deficiencies for admission to the M.S.E. are specified at the time of admission.

Contact:
Chemical Engineering Program
http://engineering.asu.edu/graduate/che
che@asu.edu
ECG 202
480/965-3313

Chemical Engineering (PhD) ESCHEMephD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Chemical Engineering

Program Description: The chemical engineering faculty offer a graduate program leading to the Ph.D. in chemical engineering. Areas of research emphasis include atmospheric aerosols, biomolecular engineering, biosensors, chemical therapies for neurodegenerative diseases, electrochemistry, electronic materials processing, engineering education, flexible display technology, fuel cells, inorganic membranes, process design and operations, protein synthesis, transport phenomena in living systems and water purification.

A graduate handbook, detailing information on graduate studies in chemical engineering, is available online at http://che.fulton.asu.edu/graduate/resources-forms. Students should contact the graduate programs office for additional details.

Program Requirement: The Ph.D. in chemical engineering requires:

1. Completion of 84 credit hours.
3. A written comprehensive examination.
4. An oral comprehensive examination.
These credit hours include core/elective course work, research/dissertation and seminar credits. Below are the specific requirements:

**Chemical Engineering Core:** The Ph.D. program requires 15 credit hours of graduate-level chemical engineering courses. The following five courses (comprising these 15 hours) are required for all students:

- CHE 527 Advanced Applied Mathematical Analysis in Chemical Engineering (3)
- CHE 533 Transport Processes I (3)
- CHE 543 Thermodynamics of Chemical Systems (3)
- CHE 544 Chemical Reactor Methods (3)
- CHE 598 Research Methods (3)

**Technical Electives:** In addition to the 15 hours of core above, the Ph.D. program requires 12 credit hours of technical electives from within or outside the chemical engineering program. CHE courses meeting this requirement must be at the 520 level or higher; 400-level and 590 courses (from CHE or outside programs) may not be used to fulfill this requirement (although they may be used to satisfy additional research and electives courses). Students should consult with their supervisory committees in selecting appropriate technical elective courses.

**Research/Dissertation:** Students are required to take 12 hours of research (CHE 792) and 12 hours of dissertation (CHE 799), for a combined total of 24 hours. Note that 12 hours (and only 12) of dissertation credit (CHE 799) are required on the program of study. Moreover, students can only take CHE 799 once they have passed the comprehensive exam and been admitted to candidacy.

**Seminar:** Students must register for the one-credit-hour seminar (CHE 591) during every semester in residence. However, only a maximum of five credit hours may apply to the program of study.

**Additional Research/Elective Hours:** The additional 28 hours necessary to meet the 84-hour minimum may be fulfilled with any combination of additional research hours (CHE 792) and technical electives from Chemical Engineering or other programs. CHE 590 Reading and Conference hours may also be used to fulfill this area.

Note that 400-level courses in programs outside chemical engineering may be used to fulfill this area unless the course content significantly matches that of 300-level or lower courses in engineering. For example, STP 420 does not qualify as a valid elective because it is similar to ECE 383. Elective courses used to meet this requirement must be approved as part of the student.

**Admission Requirements:** Applicants to the Ph.D. program are required to submit the following:
1. Graduate College online admissions application.
2. Application fee.
3. Three letters of recommendation from faculty or professionals who can comment on your research and scholarly capabilities.
4. GRE scores.
5. Official Test of English as a Foreign Language (TOEFL) scores, for international students only. Chemical Engineering requires a minimum of 600 paper-based and 100 Internet-based for admissions consideration.
7. Statement of purpose, describing your research interests and reasons for seeking a degree in chemical engineering.
8. Official transcripts from all prior institutions attended.

Please view the department page for specific admissions procedures at http://che.fulton.asu.edu/graduate/admissions.

To be eligible for regular admission, the student must have a bachelor's degree in chemical engineering (or in a closely related field). To be eligible for regular admission, United States citizens normally will have a minimum GPA of 3.20 out of a total possible 4.00, or equivalent. Foreign applicants normally will be in the top 10 percent of their graduating class. Students entering with master’s degrees are required to have a minimum GPA in their master’s degree course work of a 3.50 out of a possible 4.00.

Contact:
Chemical Engineering Program
http://engineering.asu.edu/graduate/che
che@asu.edu
ECG 202
480/965-3313

Civil/Environmental Engineering (MS) ESCIVILMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Civil and Environmental Engineering

Program Description: The faculty in the Ira A. Fulton School of Engineering offer a graduate program leading to an M.S. in civil and environmental engineering. The program is designed to enhance the knowledge gained in the undergraduate program by requiring the students to understand and practice fundamental concepts in engineering, mathematics and the basic sciences.

The pattern of course work applicable to the degree is potentially unique for each student, although it must conform to the general guidelines for subject matter content for the degree as authorized here and in the program’s graduate handbook. Students are admitted to one of the following specialty areas:

- Geotechnical engineering.
- Environmental engineering.
- Structural engineering.
- Transportation engineering.
- Water resources engineering.

Program Requirement: This program requires 30 credit hours and a thesis. All candidates for the M.S. are required to complete 24 credit hours of approved graduate course work. Additional courses may be assigned by the graduate supervisory committee, depending on the background of the candidate.

In addition, students are required to register for and complete a minimum of six credit hours of thesis work.

A final oral examination in defense of the thesis work is required for all students.

Admission Requirements: Applicants are expected to satisfy all requirements for admission to the Graduate College. Entry into this program normally requires a bachelor’s degree with a major in engineering or in a closely related bachelor’s degree program. The student's credentials for admission are evaluated by the specialty area coordinator or by a committee chaired by the specialty area coordinator. A minimum requirement is an overall undergraduate GPA of 3.00, on a 4.00 scale. Applicants with a lower GPA may be provisionally admitted at the discretion of the admission committee.

A student whose undergraduate degree is not in civil engineering is required to take appropriate undergraduate courses as deficiency courses to establish a base of knowledge in the discipline. Deficiencies for admission to the graduate degree programs are specified at the time of admission and details can be obtained at the graduate studies section of the program's Web site.

Applicants must take the GRE and have their scores sent to the Graduate College.

Applicants whose native language is not English must demonstrate proficiency in the English language by meeting the Graduate College’s English proficiency requirements. For more information, see http://graduate.asu.edu/admissions/international.html#proficiency. Applicants required to demonstrate English proficiency and seeking a teaching assistantship must demonstrate proficiency in spoken English; a score of 55 or better on the Speaking Proficiency English Assessment Kit (SPEAK) is required.

Contact:
Civil, Environmental and Sustainable Eng Program
http://cee.fulton.asu.edu/graduate/graduate-studies
cee@asu.edu
EC G251
480/965-0595
Civil/Environmental Engineering (MSE) ESCIVILMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Civil and Environmental Engineering

Program Description: The faculty in the Ira A. Fulton School of Engineering offer a professional program leading to an M.S.E. in civil and environmental engineering. The program is designed to bridge the gap between knowledge of engineering sciences and creative engineering practice, while at the same time increasing the depth and breadth of knowledge in selected areas of emphasis.

The pattern of course work applicable to the degree is potentially unique for each student, although it must conform to the general guidelines for subject matter content for the degree as authorized here and in the program’s graduate handbook. Students are admitted to one of the following specialty areas:

- Construction engineering.
- Geotechnical engineering.
- Environmental engineering.
- Structural engineering.
- Transportation engineering.
- Water resources engineering.

Program Requirement: All candidates for the M.S.E. are required to complete 30 credit hours of approved graduate course work. Additional courses may be assigned by the graduate supervisory committee depending on the background of the candidate.

A final comprehensive examination is required for all students.

Details of this examination for the different specialty areas can be obtained at the graduate studies section of the program’s Web site.

Admission Requirements: Applicants are expected to satisfy all requirements for admission to the Graduate College. Entry into this program normally requires a bachelor’s degree with a major in engineering or in a closely related bachelor’s degree program.

The student’s credentials for admission are evaluated by the specialty area coordinator or by a committee chaired by the specialty area coordinator.

A minimum requirement is an overall undergraduate GPA of 3.00, on a 4.00 scale. Applicants with a lower GPA may be provisionally admitted at the discretion of the admission committee.

A student whose undergraduate degree is not in civil engineering is required to take appropriate undergraduate courses as deficiency courses to establish a base of
knowledge in the discipline. Deficiencies for admission to the graduate degree programs are specified at the time of admission and details can be obtained at the Graduate Studies section of the program’s Web site.

Applicants must take the GRE and have their scores sent to the Graduate College. Applicants whose native language is not English must demonstrate proficiency in the English language by meeting the Graduate College’s English proficiency requirements. For more information, see http://graduate.asu.edu/admissions/international.html#proficiency.

Contact:
Civil, Environmental and Sustainable Eng Program
http://cee.fulton.asu.edu/graduate/graduate-studies
cee@asu.edu
ECG 251
480/965-0595

Civil/Environmental Engineering (PhD) ESCIVILPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Civil and Environmental Engineering

Program Description: The faculty in the Ira A. Fulton School of Engineering offer a graduate program leading to the Ph.D. in civil and environmental engineering. A broad range of theoretical and experimental research programs have been established in civil and environmental engineering to prepare graduate students for careers in professional practice and research. These programs are constantly evolving with the changes in society and the profession, and many are multidisciplinary in nature.

The pattern of course work applicable to the degree is potentially unique for each student, although it must conform to the general guidelines for subject matter content for the degree as authorized here and in the program’s graduate handbook. Students are admitted to one of the following specialty areas:

- Construction engineering.
- Geotechnical engineering.
- Environmental engineering.
- Structural engineering.
- Transportation engineering.
- Water resources engineering.

Program Requirement: All candidates for the Ph.D. are required to complete 84 approved graduate credit hours (of these, 30 hours can be from the master’s degree). Additional graduate credit work may be assigned by the graduate supervisory committee, depending on the background of the candidate.
The graduate credit hours must include a minimum of 12 credit hours of research and 12 (and only 12) credit hours of dissertation work.

This degree also requires a comprehensive examination and approval of the dissertation prospectus, for the student to be eligible for doctoral candidacy.

After entering candidacy, students complete their research, write and defend their dissertation.

A final oral examination in the defense of the dissertation work is required for all students.

**Admission Requirements:** Applicants are expected to satisfy all requirements for admission to the Graduate College. Entry into this program normally requires a master’s degree in engineering or in a closely related master’s degree program. Exceptionally qualified students with a bachelor’s degree may be admitted to the doctoral program.

The student’s credentials for admission are evaluated by the specialty area coordinator or by a committee chaired by the specialty area coordinator. A minimum requirement is an overall undergraduate GPA of 3.00 (on a 4.00 scale) and a minimum GPA of 3.20 in graduate course work.

A student whose undergraduate or master’s degree is not in civil engineering is required to take appropriate undergraduate and/or graduate courses as deficiency courses to establish a base of knowledge in the discipline. Deficiencies for admission to the Ph.D. degree program are specified at the time of admission and details can be obtained at the Graduate Studies section of the program’s Web site.

Applicants must take the GRE and have their scores sent to the Graduate College.

Applicants whose native language is not English must demonstrate proficiency in the English language by meeting the Graduate College’s English proficiency requirements. For more information, see http://graduate.asu.edu/admissions/international.html#proficiency. Applicants required to demonstrate English proficiency and seeking a teaching assistantship must demonstrate proficiency in spoken English; a score of 55 or better on the Speaking Proficiency English Assessment Kit (SPEAK) is required.

**Contact:**
Civil, Environmental and Sustainable Eng Program
http://cee.fulton.asu.edu/graduate/graduate-studies
cee@asu.edu
480/965-0595
Computer Science - Art, Media and Eng (MS) ESAMECSMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Computer Science (Arts, Media and Engineering)

Program Description: The computer science/arts, media and engineering M.S. program emphasizes research on the integration of the human physical experience with computation and digital media. Arts, media and engineering researchers produce experiential media systems and models that evolve human ability, facilitate learning, enhance scientific discovery, empower creativity, assist the disadvantaged and improve quality of life. Within these application areas, researchers explore experiential construction, interaction and feedback, knowledge creation, sensing, perception and modeling.

The purpose of the arts, media and engineering concentration in computer science is to train hybrid engineering-arts graduates who get their inspiration from the arts and their methodology from computer science and engineering. Students will specialize in transdisciplinary media development.

Program Requirement: Students complete 30 credit hours of course work, including nine credit hours of AME-approved course work and six credit hours of thesis, to graduate with the degree.

Students will complete one course in three areas to cover a wide range of knowledge. The three areas consist of foundations, systems and applications.

Foundations courses focus on algorithms, mathematical logic, programming languages and theory. Systems courses cover topics in architecture, networks, operating systems and software engineering. Applications courses are in the areas of artificial intelligence, databases, graphics and multimedia.

Admission Requirements: Students interested in applying to this program must submit an online application to the Graduate College. An applicant for the M.S. program should normally have a bachelor's degree in computer science, computer engineering or a closely related area.

The applicant's undergraduate GPA and depth of preparation in computer science and engineering are the primary factors affecting admission.

Every applicant must submit scores for the GRE. Verbal, quantitative and analytical scores are required; the subject test in computer science is optional.

International students must also submit Test of English as a Foreign Language (TOEFL) scores.

The application deadline for admission in the fall semester is Dec. 1, and the deadline for admission in the spring semester is Aug. 1. Deadlines for financial aid...
are the same as the admission deadlines.

The statement of purpose must fulfill any requirements defined by the graduate programs office and also address the transdisciplinary nature of the arts, media and engineering program. Applicants should explain in a concise and persuasive manner how their educational, professional and personal experiences inform their research and creative interests, writing on any aspect of their background that supports candidacy to the program. For further information on how this statement can be expanded upon by students interested in a research assistantships or an Integrative Graduate Education and Research Traineeship (IGERT) within arts, media and engineering, please visit the financial aid page.

Please submit a current curriculum vitae with your statement of purpose.

Contact:
Computer Science and Engineering Program
http://www.sci.asu.edu
sci.advising@asu.edu
BYENG 553
480/965-3190

Computer Science - Art, Media and Eng (PhD) ESAMECSPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Computer Science (Arts, Media and Engineering)

Program Description: The computer science/arts, media and engineering Ph.D. program emphasizes research on the integration of the human physical experience with computation and digital media. Arts, media and engineering researchers produce experiential media systems and models that evolve human ability, facilitate learning, enhance scientific discovery, empower creativity, assist the disadvantaged and improve quality of life. Within these application areas, researchers explore experiential construction, interaction and feedback, knowledge creation, sensing, perception and modeling.

The purpose of the arts, media and engineering concentration is to train hybrid engineering-arts graduates who get their inspiration from the arts and their methodology from computer science and engineering. Students will specialize in transdisciplinary media development.

Program Requirement: The computer science/AME Ph.D. must contain a minimum of 84 credit hours of approved graduate-level work, of which 36 credit hours focus on arts, media and engineering and 12 credit hours of CSE 799 Dissertation. Additional credit hours are to be in computer science course work and 18 credit hours of research (CSE 792).

All Ph.D. students must take at least three credit hours in each of the following three
areas: foundations, systems and applications. All three area courses must be at 500 levels (not CSE 598). Please see the area courses section on the program's Web page for a list of courses in each area.

The Ph.D. also requires a dissertation, a written comprehensive examination, and an oral comprehensive examination.

Admission Requirements: Students interested in applying to this program must submit the Graduate College online application. An applicant for the Ph.D. program should have the equivalent of a bachelor's degree in computer science, computer engineering or a closely related area. Most applicants should have earned a master's degree, but applicants with exceptional attainments in their baccalaureate may be admitted directly into the Ph.D. program.

The primary factors affecting admission include the applicant’s GPA, depth of preparation and GRE scores. International students must also submit Test of English as a Foreign Language (TOEFL) scores. Applicants must submit a statement of purpose, curriculum vitae and three letters of recommendation. The application deadline for admission in the fall semester is Dec. 1, and the deadline for admission in the spring semester is Aug. 1. The deadlines for financial aid are the same as the admission deadline.

The statement of purpose must fulfill any requirements defined by the graduate programs office and also address the transdisciplinary nature of the arts, media and engineering program. Applicants should explain in a concise and persuasive manner how their educational, professional and personal experiences inform their research and creative interests, writing on any aspect of their background that supports candidacy to the program. For further information on how this statement can be expanded upon by students interested in a research assistantships or an Integrative Graduate Education and Research Traineeship (IGERT) within arts, media and engineering, please visit the financial aid page.

Contact:
Computer Science and Engineering Program
http://www.sci.asu.edu
sci.advising@asu.edu
BYENG 553
480/965-3190

Computer Science - Information Assurance (MCS) ESCSEIMCS
Ira A. Fulton School of Engineering

Official Degree Awarded: MCS Computer Science (Information Assurance)

Program Description: The M.C.S. with a concentration in information assurance is designed for graduate students who want to pursue a thorough education in the area of information assurance. The goal of this concentration is to provide students
the knowledge, skills and the advanced development capability in science and engineering for information assurance, including computer and network security, software security, data and information security, applied cryptography and computer forensics.

Students will have a competitive advantage to secure employment. According to the National Security Agency, information assurance is defined as the set of measures intended to protect and defend information and information systems by ensuring their availability, integrity, authentication, confidentiality and nonrepudiation. This includes providing restoration of information systems by incorporating protection, detection and reaction capabilities.

Program Requirement: Each M.C.S. student defines a potentially unique plan of study subject to approval by the graduate programs office and the Graduate College. The program of study must contain:

1. A minimum of 30 credit hours of approved graduate-level work including 15 hours of information assurance and related areas.
2. At least 18 of the 30 credit hours must be CSE 500-level credits at ASU (excluding CSE 598 courses).
3. At least 30 credit hours must be for formal course work (including CSE 591 but excluding credits for independent projects).
4. No credits for CSE 590 Reading and Conference or CSE 599 Thesis are allowed on a program of study for the M.C.S.
5. Students must complete a project portfolio from three courses they took and receive a “B” (3.00) grade or higher.

All students must take at least three credit hours in each of the following three areas: foundations, systems and applications. At least two out of the three area courses must be at the 500 level (but not CSE 598). No 400-level courses are allowed in the student’s plan of study. The graduate programs office may prescribe additional courses based on the background of the candidate.

Admission Requirements: Students interested in applying to the M.C.S. program must submit an online application to the Graduate College. An applicant for the M.C.S. program should normally have a bachelor’s degree in computer science, computer engineering or a closely related area.

The applicant’s undergraduate GPA and depth of preparation in computer science and engineering are the primary factors affecting admission.

Every applicant must submit scores for the GRE. Verbal, quantitative and analytical scores are required; the subject test in computer science is optional.

International students must also submit Test of English as a Foreign Language (TOEFL) scores.
The application deadline for admission in the fall semester is Dec. 1, and the
deadline for admission in the spring semester is Aug. 1. Deadlines for financial aid
are the same as the admission deadlines.

Contact:
Computer Science and Engineering Program
http://sci.asu.edu/about/cse.php
cse@asu.edu
BYENG 553
480/965-3190

Computer Science - Information Assurance (PHD) ESCSEIAPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Computer Science (Information Assurance)

Program Description: The computer science/information assurance Ph.D. program is
designed for graduate students who want to pursue a thorough education in the
area of information assurance. The goal of this concentration is to provide students
the knowledge, skills and the advanced development capability in science and
engineering for information assurance, including applied cryptography, computer
forensics, computer and network security, data and information security and
software security. Students will have a competitive advantage to secure
employment. According to the National Security Agency, information assurance is
defined as the set of measures intended to protect and defend information and
information systems by ensuring their availability, integrity, authentication,
confidentiality and nonrepudiation. This includes providing restoration of
information systems by incorporating protection, detection and reaction
capabilities.

Program Requirement: The computer science/information assurance Ph.D. must
contain a minimum of 84 credit hours of approved graduate-level work, 12 hours
(and only 12 hours) of CSE 799 Dissertation.

A minimum of 18 credits in information assurance and related areas are required
(including CSE 591 but excluding CSE 790 and CSE 799). Additional credit hours are
to be in computer science course work and 18 hours of research (CSE 792).

All Ph.D. students must take at least three credit hours in each of the following three
areas: foundations, systems and applications. All three area courses must be at the
500 level (not CSE 598). Please see the area courses section on the program Web
page for a list of courses in each area.

Students must pass a written comprehensive examination.

Admission Requirements: An applicant for the Ph.D. program should have the
equivalent of a bachelor's degree in computer science, computer engineering or a
closely related area. Most applicants should have earned the master’s degree, but applicants with exceptional attainments in their undergraduate education may be admitted directly into the Ph.D. program.

The primary factors affecting admission include the applicant’s GPA, depth of preparation in computer science and engineering and GRE (verbal, quantitative, analytical and computer science) scores. International students must also submit Test of English as a Foreign Language (TOEFL) scores. Applicants must submit a statement of purpose and three letters of recommendation. The application deadline for admission in the fall semester is Dec. 1, and the deadline for admission in the spring semester is Aug. 1. The deadlines for financial aid are the same as the admission deadline.

Contact:
Computer Science and Engineering Program
http://www.sci.asu.edu
sci.advising@asu.edu
BYENG 553
480/965-3190

Computer Science (MCS) ESCOMSMCS
Ira A. Fulton School of Engineering

Official Degree Awarded: MCS Computer Science

Program Description: The M.C.S. is an advanced degree targeted at students with an undergraduate education in computing and related disciplines who can best profit from further breadth and background in computer science. The M.C.S. also affords an opportunity for students employed in industry to seek a breadth of advanced education in computer science.

The M.C.S. program provides a professionally oriented, graduate-level education in computer science. The program reflects the dual nature of computer science as both a scientific and engineering discipline by allowing emphasis on theory as well as practical applications. Students seeking the M.C.S. submit a project portfolio compiling projects completed in three courses during their studies. Students can study topics such as artificial intelligence, computer-aided geometric design, computer architecture, computer graphics, computer science theory, database concepts, digital systems design, distributed systems, language processing, networking, operating systems and software engineering.

Program Requirement: Each student defines a potentially unique program of study subject to approval by the graduate programs office and the Graduate College. The program of study must contain a minimum of 30 credit hours of approved graduate-level work. At least 18 of these hours must be computer science and engineering 500-level credits at ASU (excluding CSE 598 courses). At least 30 hours must be for formal course work (including CSE 591 but excluding credits for independent
projects).

No credits for CSE 590 Reading and Conference or CSE 599 Thesis are allowed on a program of study for the M.C.S. degree. M.C.S. students must complete a project portfolio from three courses they took and receive a “B” (3.00) grade or higher.

All M.C.S. students must take at least three credit hours in each of the following three areas: foundations, systems and applications. At least two of the three area courses must be at the 500 level (not 598). No 400-level courses are allowed in this degree program. The graduate programs office may prescribe additional courses based on the background of the candidate.

**Admission Requirements:** Students interested in applying to the M.C.S. program must submit an online application to the Graduate College.

An applicant for the M.C.S. program should normally have a bachelor’s degree in computer science, computer engineering or a closely related area.

The applicant’s undergraduate GPA, GRE (verbal, quantitative and analytical) score, and depth of preparation in computer science and engineering are the primary factors affecting admission. The GRE subject test in computer science is optional.

International students must also submit the results of the Test of English as a Foreign Language (TOEFL).

The application deadline for admission in the fall semester is Dec. 1, and Aug. 1 for the spring semester. The deadlines for financial aid are the same as the application deadlines.

**Contact:**
Computer Science and Engineering Program
http://sci.asu.edu
sci.advising@asu.edu
BYENG 553
480/965-3190

**Computer Science (MS) ESCOMSCMS**
Ira A. Fulton School of Engineering

**Official Degree Awarded:** MS Computer Science

**Program Description:** The M.S. in computer science is a research-oriented degree targeted toward students with an undergraduate education in the science of computation. It provides instruction in advanced course work and emphasizes research by the student. Areas of study and research areas include algorithms, artificial intelligence, bioinformatics, computer-aided geometric design, computer graphics, computer networks, database systems, distributed computing and
operating systems, embedded systems, information assurance, intelligent
information integration, multimedia information systems and software engineering.

In addition, the faculty conduct research in various aspects of computer science,
working closely with the Center for Cognitive Ubiquitous Computing, the Center for
Research in Arts, Media and Engineering, and the Partnership for Research in
Spatial Modeling.

Program Requirement: Students complete 30 credit hours of course work, including
six credit hours of thesis to graduate with the M.S. Students will complete one
course in three areas to cover a wide range of knowledge. The three areas consist of
foundations, systems and applications.

Foundations courses focus on algorithms, mathematical logic, programming
languages and theory. Systems courses cover topics in architecture, networks,
operating systems and software engineering. Applications courses are in the areas
of artificial intelligence, databases, graphics and multimedia.

The remainder of the student’s course work focuses on the research area of interest,
conducted with the guidance of a faculty advisor. Students have many options to
conduct cutting-edge research with a wide variety of research areas, including
artificial intelligence, embedded systems and information assurance/security.

Admission Requirements: Students interested in applying to the M.S. program must
submit an online application to the Graduate College. An applicant for the M.S.
program should normally have a bachelor’s degree in computer science, computer
engineering or a closely related area.

The applicant’s undergraduate GPA and depth of preparation in computer science
and engineering are the primary factors affecting admission.

Every applicant must submit scores for the GRE (verbal, quantitative and analytical
required; the subject test in computer science is optional).

International students must also submit Test of English as a Foreign Language
(TOEFL) scores.

The application deadline for admission in the fall semester is Dec. 1, and the
deadline for admission in the spring semester is Aug. 1. Deadlines for financial aid
are the same as the admission deadlines.

Contact:
Computer Science and Engineering Program
http://sci.asu.edu
sci.advising@asu.edu
BYENG 553
480/965-3190
Computer Science (PhD) ESCOMSCPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Computer Science

Program Description: The computer science Ph.D. program prepares students to undertake fundamental and applied research in computer science in academia, government and industry. The faculty offer a graduate program leading to the Ph.D. in computer science.

Areas of study and research areas include algorithms, artificial intelligence, bioinformatics, computer-aided geometric design and computer graphics, computer networks, database systems, distributed computing and operating systems, embedded systems, information assurance, intelligent information integration, multimedia information systems and software engineering.

In addition, the faculty conduct research in various aspects of computer science, working closely with The Center for Cognitive Ubiquitous Computing, The Center for Research in Arts, Media and Engineering and The Partnership for Research in Spatial Modeling.

Program Requirement: The Ph.D. program requires 84 credit hours of approved graduate-level work, including 12 credit hours of CSE 799 Dissertation. Students are also required to pass written and oral comprehensive examinations and complete a dissertation.

All Ph.D. students must take at least three credit hours in each of the following three areas: foundations, systems and applications. All three area courses must be taken at the 500 level and do not include CSE 598 courses.

Admission Requirements: Students interested in applying to this program must submit to the Graduate College an online application. An applicant for the Ph.D. program should have the equivalent of a bachelor’s degree in computer science, computer engineering or a closely related area. Most applicants should have earned the master’s degree, but applicants with exceptional attainments in their undergraduate education may be admitted directly to the Ph.D. program.

The primary factors affecting admission include the applicant’s GPA, depth of preparation in computer science and engineering. Every applicant must submit scores for the GRE (verbal, quantitative and analytical required; the subject test in computer science is optional). International students must also submit Test of English as a Foreign Language (TOEFL) scores. Students must submit a statement of purpose and three letters of recommendation.

The application deadline for admission in the fall semester is Dec. 1, and the deadline for admission in the spring semester is Aug. 1. The deadlines for financial aid are the same as the admission deadline.
**Contact:**
Computer Science and Engineering Program
http://sci.asu.edu
sci.advising@asu.edu
BYENG 553
480/965-3190

**Computer Science (Biomedical Informatics)(MS) ESCSBIOIMS**
Ira A. Fulton School of Engineering

**Official Degree Awarded:** MS Computer Sciences (Biomedical Informatics)

**Program Description:** The computer science/biomedical informatics M.S. program is designed for graduate students who wish to specialize in such topics as genomics and computational systems biology. The concentration is interdisciplinary in nature, providing preparation that integrates technological expertise in the information sciences, computer science, bioscience and statistics with an understanding of the clinical environment of the health care professional. It will expose computer science students to current issues in clinical practice as well as the use of information systems in health care settings.

**Program Requirement:** Students complete 30 credit hours of course work, including nine credit hours of course work in biomedical informatics and six credit hours of thesis work to graduate with the degree. Students will complete one course in three areas to cover a wide range of knowledge. The three areas consist of foundations, systems and applications.

Foundations courses focus on algorithms, mathematical logic, programming languages and theory. Systems courses cover topics in architecture, networks, operating systems and software engineering. Applications courses are in the areas of artificial intelligence, databases, graphics and multimedia.

The remainder of the student’s course work focuses on the research area of interest, within biomedical informatics including public health, decision making and bioinformatics. Students have many options to conduct cutting-edge research with a wide variety of research areas, including artificial intelligence, embedded systems and information assurance/security.

**Admission Requirements:** Students interested in applying to this program must submit to the Graduate College an online application. An applicant to the M.S. program should normally have a bachelor’s degree in computer science, computer engineering or a closely related area.

The applicant’s undergraduate GPA and depth of preparation in computer science and engineering are the primary factors affecting admission.

Every applicant must submit scores for the GRE. The verbal, quantitative and analytical are required. The subject test in computer science is optional.
International students must also submit Test of English as a Foreign Language (TOEFL) scores.

The application deadline for admission in the fall semester is Dec. 1, and the deadline for admission in the spring semester is Aug. 1. Deadlines for financial aid are the same as the admission deadlines.

Contact:
Computer Science and Engineering Program
http://cse.asu.edu
sci.advising@asu.edu
BYENG 553
480/965-3190

Construction (MS) ESCONSTMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Construction

Program Description: The faculty in the Del E. Webb School of Construction offer a graduate program leading to the M.S. in construction. Concentrations are available in construction management and facilities management. The interdisciplinary nature of the program allows a candidate's program of study to reflect both individual interests and career goals.

The primary objective of the program is to allow students with a bachelor's degree in construction or a related field such as architecture, business or engineering to broaden and improve their professional capabilities in construction. The program is designed to meet the growing need for professionals with advanced technical, management and applied research skills in the construction industry.

The facilities management concentration supports the needs of the student desiring a career in the maintenance, operation, renovation or decommissioning of existing facilities. The construction management concentration allows students seeking upper-level management positions in various sectors of the construction industry to improve their competency in project, program and company management areas.

Program Requirement: The program of study consists of the following:

1. Thesis option: thirty credit hours of graduate study culminating in a thesis and an oral defense.
2. Nonthesis option: thirty-six credit hours of graduate study culminating in an applied project.

If appropriate graduate-level courses are not available in a student's pursued area of interest, the supervisory committee has the option to approve a maximum of two
400-level courses to be part of the program of study. Students may not use 400-level deficiency courses to satisfy degree requirements.

**Admission Requirements:** Applicants are expected to satisfy all requirements for admission to the Graduate College. In addition, applicants are expected to be competent in basic construction topics. Admission is based on:

1. An evaluation of the student’s academic and professional background.
2. Scores from the verbal, quantitative, and analytical writing portions of the GRE.
3. Letters of recommendation.
4. A personal statement.
5. A current resume.
6. Students whose native language is not English must also submit a Test of English as a Foreign Language (TOEFL) score of at least 550.

**Contact:**
Del E. Webb Construction
http://construction.asu.edu
dewsc_graduate@asu.edu
USE 118
480/965-9272

**Construction (PHD) ESCONPHD**
Ira A. Fulton School of Engineering

**Official Degree Awarded:** PHD Construction

**Program Description:** The purpose of this construction Ph.D. program is to prepare research scholars, new faculty and professionals for positions in industry, universities and government, as well as facilitate a higher level of investigation and knowledge creation through the professor-Ph.D. student dynamic.

The Del E. Webb School of Construction is distinctively positioned to provide students with an interdisciplinary educational and research experience at the Ph.D. level, which will provide value in construction education, research and industry programs, private construction research facilities, and high-level management positions in the construction industry.

The objectives of the degree program include research experience for doctoral students who might wish to pursue careers in either industry or academia as members of interdisciplinary research teams, as well as providing a high-level interdisciplinary doctoral education for those who wish to develop academic careers teaching at the university level.

**Program Requirement:** The Ph.D. in construction will require three to four years of full-time study and research beyond the master’s degree. Generally, students will be admitted into the Ph.D. degree program at or near the completion of their master’s
degree.

The program requires 84 credit hours post-bachelor's degree or 54 credit hours post-master's degree.

The program consists of:

1. Admission to candidacy.
2. A comprehensive examination.
3. Core construction courses.
4. Elective courses.
5. A qualifying examination.

Admission Requirements: Students who hold a bachelor's or a master's degree in a related field from a regionally accredited university or equivalent are eligible to apply for admission to the program. Related fields include construction, civil engineering, architecture and business. At the discretion of the admission committee, students from other disciplines may be eligible as well.

Applicants are expected to satisfy all requirements for admission to the Graduate College. In addition, applicants are expected to be competent in construction topics. Admission is based upon:

1. Research interests.
2. An evaluation of the student's academic and professional background.
3. Scores from the verbal, quantitative and analytical writing portions of the GRE.
4. Letters of recommendation.
5. A personal statement from each applicant describing their career goals and research objectives.
7. A current resume.
8. Students whose native language is not English must also submit a Test of English as a Foreign Language (TOEFL) score of at least 550.

Contact:
Del E. Webb Construction
http://construction.asu.edu
dewsc_graduate@asu.edu
USE 118
480/965-9272

Electrical Engineering (MS) ESEEMS
Ira A. Fulton School of Engineering

(This major is no longer accepting applications)
Official Degree Awarded: MS Electrical Engineering

Program Description: This program does not accept applications to the M.S. directly. Students should apply to the M.S.E. program at https://webapp.asu.edu/eadvisor/MajorInfo.external?sp=SASU00&sp=SESEE MSE&sp=SGgraduate, and, once admitted, consult with the M.S.E. program if interested in the M.S. program.

The electrical engineering faculty in the Ira A. Fulton School of Engineering offer a research program leading to the M.S. in electrical engineering.

Graduate courses and programs are offered in the following six areas of specialization:

1. Control systems.
2. Electromagnetics, antennas and microwave circuits.
3. Electronic and mixed-signal circuit design.
4. Electric power and energy systems.
5. Signal processing and communications systems.

Program Requirement: The M.S. is a research degree requiring a minimum of 30 credits. These credits must include a minimum of eight courses (24 hours minimum) and six hours of EEE 599 (thesis). As part of the eight courses, at least two should be outside the area of specialization. Requirements include:

- At least four EEE courses.
- At most two 400-level courses.
- At least three EEE 500-level courses.
- At least two courses outside the area of specialization.
- At most one EEE 590 Reading and Conference or FSE course.
- A final oral examination in defense of the thesis completes the M.S. requirements.

Courses are available on campus and online. The degree can be completed taking classes in any combination of on-campus and online modes.

Admission Requirements: Students applying to an M.S. in electrical engineering must initially apply to the M.S.E. program. Students who later obtain a research advisor may transfer to the M.S. program. Students pursuing the M.S. thesis option must have a cumulative GPA of 3.20 in their course work.

Contact:
Department of Electrical Engineering
http://ee.fulton.asu.edu
askee@asu.edu
GWC 212
480/965-3424
Electrical Engineering (MSE) ESEMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Electrical Engineering

Program Description: The electrical engineering faculty in the Ira A. Fulton School of Engineering offer a professional program leading to the M.S.E. in electrical engineering. Graduate courses and programs are offered in the following six areas of specialization:

1. Control systems.
2. Electromagnetics, antennas and microwave circuits.
3. Electronic and mixed-signal circuit design.
4. Electric power and energy systems.
5. Signal processing and communications systems.

Courses are available on campus and online. The degree can be completed taking classes in any combination of on-campus and online modes.

A dual degree, the M.B.A./M.S.E. in electrical engineering is available as an online option. For more information, visit http://wpcarey.asu.edu/mba/online/program/dual-degree.cfm and http://cpd.asu.edu/online/?page=online_mba_mse_ee.

Program Requirement: The M.S.E. is a professional degree requiring a minimum 30 hours of course work (a minimum of 10 classes) and a final comprehensive examination. There is no thesis.

Requirements include:

1. At least five EEE courses.
2. At most two 400-level courses.
3. At least three EEE 500-level courses.
4. At least two courses outside the area of specialization.
5. At most one EEE 590 Reading and Conference or FSE course.

A final comprehensive examination in the area of specialization completes the M.S.E. requirements. The examination is given each semester at the end of the sixth week of classes.

Admission Requirements: The decision to admit a student who has earned a bachelor’s degree from a program accredited by ABET to a master’s program in electrical engineering is based on a number of factors. A minimum requirement is an undergraduate GPA of 3.00 (out of 4.00) in the student's last two years of undergraduate work. A student whose undergraduate degree is not from an ABET-accredited program must have the equivalent of at least a 3.50 GPA in the last two years of undergraduate study and score at least 720 on the quantitative portion of
the GRE and a good score on the writing portion.

In addition, an applicant whose native language is not English must demonstrate proficiency in the English language by meeting the English proficiency requirements stated on the Graduate College’s website, http://graduate.asu.edu/admissions/international.html. International students seeking teaching assistantships must demonstrate proficiency in spoken English by scoring at least 24 on the speaking portion of the iBT or 50 on the ASU administered Speaking Proficiency English Assessment Kit (SPEAK).

The admissions deadline for the fall semester is the preceding Dec. 31; for the spring semester, the preceding July 31.

A student whose undergraduate degree is not in electrical engineering may need to take appropriate undergraduate courses to establish a baseline of knowledge in the discipline.

Contact:
Department of Electrical Engineering
http://ee.fulton.asu.edu
askee@asu.edu
GWC 212
480/965-3424

Electrical Engineering (PhD) ESEEPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Electrical Engineering

Program Description: The Ph.D. in electrical engineering is awarded upon evidence of excellence in research leading to a scholarly dissertation that is a contribution to knowledge. Graduate courses and programs are offered in the following six areas of specialization:

1. Control systems.
2. Electromagnetics, antennas and microwave circuits.
3. Electronic and mixed-signal circuit design.
4. Electric power and energy systems.
5. Signal processing and communications systems.

Program Requirement: Ph.D. students are required to complete 84 credit hours of academic credit beyond the bachelor’s degree. The following summarizes the degree course requirements:

1. Master’s degree: 30 hours, from any accredited institution.
2. 500-level or above: 18 hours, at least nine from EE.
3. Research or Omnibus: 12 hours, can be 400-level and above.
4. Research: 12 hours.
5. Dissertation: 12 hours.

The 84 hours include 30 credit hours for the master's degree, a required 18 credit hours of Ph.D. class work, 12 hours of research (EEE 792), and 12 hours (and only 12 hours) of dissertation (EEE 799).

The additional 12 hours can be more hours of research (EEE 792) or can be class work as determined by the supervisory committee. At least half (nine hours) of the minimum requirement of 18 credit hours of Ph.D. course work must be in electrical engineering. EEE 790 Reading and Conference can be used for no more than three credit hours toward the required 18, but does not count towards the nine hours of 500-level EE classes required.

All courses counting toward the required 18 hour minimum must be at the 500-level or higher. Note that all courses having the prefix EEE 591 count as 400-level courses. No more than one three-hour reading and conference (EEE 790) course can be taken as part of the 18 hour requirement. The content of any proposed Reading and Conference course must be reviewed and approved by the director of graduate studies before registering for the course.

A qualifying examination, a comprehensive exam, and the dissertation defense are required. Additional information on the program and can be found in the Blue Student Guide published and available on the program's Web page.

Admission Requirements: In general, a student must have at least a 3.00 GPA (out of 4.00) in all undergraduate course work and at least a 3.50 GPA in all graduate course work for admission to the Ph.D. program. A student must usually hold a master's degree before being admitted to the Ph.D. program. Direct Ph.D. admission is available for students graduating from an ABET-accredited electrical engineering program with a GPA of 3.60 or higher.

A student whose master's degree is not from a U.S. institution must provide a score of at least 720 on the quantitative portion of the GRE. A score of 4.0 or better on the writing portion is considered desirable. In addition, an applicant whose native language is not English must demonstrate proficiency in the English language by meeting the English proficiency requirements stated on the Graduate College’s website, http://graduate.asu.edu/admissions/international.html. International students seeking teaching assistantships must demonstrate proficiency in spoken English by scoring at least 24 on the speaking portion of the iBT or 50 on the ASU administered Speaking Proficiency English Assessment Kit (SPEAK).

The admissions deadline for the fall semester is the preceding Dec. 31; for the spring semester, the preceding July 31.

A student whose undergraduate degree is not in electrical engineering may need to
take appropriate undergraduate courses to establish a baseline of knowledge in the
discipline.

Contact:
Department of Electrical Engineering
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Electrical Engineering - Art, Media and Eng (MS) ESAMEMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Electrical Engineering (Arts, Media and Engineering)

Program Description: A concentration in arts, media and engineering has been established as a collaboration between the electrical engineering program at ASU and the Herberger Institute for Design and the Arts. This concentration is available both for the M.S. and the Ph.D. students admitted to this program, who take two-thirds of their course, research and thesis credits from the Electrical Engineering and one-third of the credits from the arts, media and engineering program.

The arts, media and engineering (AME) program represents an ambitious interdisciplinary research community at ASU that is focused on the parallel development of media hardware, software, content and theory. AME research addresses the discontinuity that exists between media content and media technologies through a paradigm shift in media and arts training. The objective is to produce a new kind of hybrid graduate student who draws creativity from the arts and methodology from engineering sciences. AME trains students to integrate principles of digital signal processing and multimedia computing with artistic ideas and objectives, with the goal of enabling new paradigms of human-machine experience that directly address societal needs and facilitate knowledge. For more information, see http://ame.asu.edu.

Program Requirement: The M.S. in electrical engineering with a concentration in AME requires 30 credit hours and a thesis. Eight courses are required, typically five from EEE and three from AME. In addition, six hours of thesis are required, typically four credits from EEE and two from AME.

Admission Requirements: Students interested in applying to this program must submit the Graduate College online application. Students from ABET-accredited undergraduate programs who wish to be considered for a master's program must have a minimum GPA of 3.00 (on a four-point scale) in the last two years of undergraduate course work. Students from undergraduate programs that are not accredited by ABET must have a minimum GPA of 3.50 (on a four-point scale) in the last two years of undergraduate course work or have graduated first class with distinction and must score in the 90th percentile or higher on the quantitative
section of the GRE general test.

In addition, an applicant whose native language is not English must demonstrate proficiency in the English language by meeting the English proficiency requirements stated on the Graduate College’s website, http://graduate.asu.edu/admissions/international.html. International students seeking teaching assistantships must demonstrate proficiency in spoken English by scoring at least 24 on the speaking portion of the iBT or 50 on the ASU administered Speaking Proficiency English Assessment Kit (SPEAK).

Applicants should submit materials that reflect the hybrid nature of the arts/engineering degree, including a statement of purpose and curriculum vitae demonstrating interest and relevant experience in the area. Students will have the opportunity to upload their curriculum vitae and statement of purpose when completing the online application. Additionally, AME requires three letters of recommendation from individuals familiar with the applicant’s ability to succeed in an interdisciplinary research environment.

Contact:
Department of Electrical Engineering
http://ee.fulton.asu.edu
askee@asu.edu
GWC 212
480/965-3424

Electrical Engineering - Art, Media and Eng (PhD) ESAMEPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Electrical Engineering (Arts, Media and Engineering)

Program Description: A concentration in arts, media and engineering has been established as a collaboration between the electrical engineering program at ASU and the Herberger Institute for Design and the Arts. This concentration is available both for the M.S. and the Ph.D. students admitted to this program, who take two-thirds of their course, research and thesis credits from Electrical Engineering and one-third of the credits from the arts, media and engineering program.

The arts, media and engineering (AME) program represents an ambitious interdisciplinary research community at ASU that is focused on the parallel development of media hardware, software, content and theory. AME research addresses the discontinuity that exists between media content and media technologies through a paradigm shift in media and arts training. The objective is to produce a new kind of hybrid graduate student who draws creativity from the arts and methodology from engineering sciences.

AME trains students to integrate principles of digital signal processing and multimedia computing with artistic ideas and objectives, with the goal of enabling
new paradigms of human-machine experience that directly address societal needs and facilitate knowledge. For more information, see http://ame.asu.edu.

**Program Requirement:** The Ph.D. in electrical engineering with a concentration in AME requires:

1. Eighty-four credit hours.
3. A written comprehensive examination.
4. An oral comprehensive examination.
5. Ten courses are required, typically seven from EEE and three from AME.
6. Twelve hours of research are required, typically eight credits from EEE and four from AME.
7. Twelve hours of thesis are required, typically eight credits from EEE and four from AME.
8. A qualifying examination.
9. A comprehensive examination.
10. The dissertation defense.

**Admission Requirements:** Applicants with a master’s degree who wish to be considered for the Ph.D. program must have a minimum GPA of 3.50 (on a 4.00 scale) in their master’s program. Students interested in applying to this program should submit the Graduate College online application. Applicants without a master’s degree must have a minimum GPA of 3.60 (on a 4.00 scale) in the last two years of undergraduate course work and have graduated from an ABET-accredited undergraduate program.

In addition, an applicant whose native language is not English must demonstrate proficiency in the English language by meeting the English proficiency requirements stated on the Graduate College’s website, http://graduate.asu.edu/admissions/international.html. International students seeking teaching assistantships must demonstrate proficiency in spoken English by scoring at least 24 on the speaking portion of the iBT or 50 on the ASU administered Speaking Proficiency English Assessment Kit (SPEAK).

Applicants should submit materials that reflect the hybrid nature of the arts/engineering degree, including a statement of purpose and curriculum vitae demonstrating interest and relevant experience in the area. Students will have the opportunity to upload their curriculum vitae and statement of purpose when completing the online application. Additionally, AME requires three letters of recommendation from individuals familiar with the applicant's ability to succeed in an interdisciplinary research environment.

**Contact:**
Department of Electrical Engineering
http://ee.fulton.asu.edu
askee@asu.edu
Engineering Science (Enterprise Sys Innov and Mgmt) (MSE) ESIEEMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Engineering Science (Enterprise Systems Innovation and Management)

Program Description: The ASU Ira A. Fulton School of Engineering offers the enterprise systems innovation and managements concentration, providing enterprise and technology managers a wide range of analytical and strategic methods in enterprise systems, innovation and management. The core focus of the program includes enterprise product/service (offering) innovation, process innovation and strategy innovation within the enterprise, in addition to enterprise management, asset, design and business model innovation.

The enterprise systems innovation and management program allows professionals the opportunity to enhance their leadership abilities and analytical thinking and bring value to their organization and professional advancement. In today’s global environment, business execution is becoming increasingly competitive. Managing resources, products, and customers across the globe magnifies organizational challenges and requires more sophisticated systems, tactical thinking and advanced methods of measuring, analyzing and controlling performance. Managers must understand the underlying issues across the enterprise to impact and create business value.

The M.S.E. in engineering science with a concentration in enterprise systems innovation and management is only available through distance learning. The degree program is supported through online courses available from the Ira A. Fulton School of Engineering.

Program Requirement:

1. Students must complete a total of 30 credit hours, equaling 10 courses, to earn an M.S.E.
2. Students must complete a three-credit-hour applied project (CSE 593), three credits of applied engineering mathematics and three credits of engineering management/business.
3. A culminating event is required and will be identified by the student’s advisory committee. It could be a final examination or the final report for an applied project.
4. Additional requirements may exist for some academic units.

Admission Requirements: Applicants must submit:

1. The Graduate College online application.
2. A minimum grade point average of 3.00, on a 4.00 scale, for the last 60 credit hours of the undergraduate transcript.

3. The schools attended and major of study completed are also significant factors in admission; an example of undergraduate degrees of applicants might include, but not be limited to, a B.S. in business, B.S. in mathematics or B.S. in engineering.

4. Completion of a basic statistics course and calculus course is required for admission; a prerequisite course in industrial statistics and tools might be required for some students not meeting this requirement.

5. GRE scores are not required.

6. Applicants whose native language is not English must provide evidence of English proficiency according to the guidelines defined by the ASU Graduate College.

Contact:
Dean, Ira A. Fulton School of Engineering
http://www.asuengineeringonline.com
asu.cpd@asu.edu
BYENG 310
480/965-1740

Engineering Science (Software Engineering) (MSE) ESSFEMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Engineering Science (Software Engineering)

Program Description: The M.S.E. in engineering science with a software engineering concentration offers specialized courses founded on the fundamentals and principles of software engineering. The program provides the knowledge and skills needed to work as a software engineer or software task leader on both large and small projects using either agile methodologies or formal Capability Maturity Model Integration (CMMI) approaches. The program addresses major software development methodologies, techniques, tools and processes for both developing and managing software projects. The curriculum is based on the Software Engineering Body of Knowledge (SWEBOK) under the leadership of the IEEE Computer Society. Each course will place an emphasis on applied assignments and projects that are relative to the student’s workplace.

The M.S.E. in engineering science with a concentration in software engineering is only available through distance learning. The degree program is supported through online courses available from the Ira A. Fulton School of Engineering.

Program Requirement:

1. Students must complete a total of 30 credit hours equaling 10 courses to earn an M.S.E.
2. Students must complete a three-credit-hour applied project (CSE 593), three credits of applied engineering mathematics and three credits of engineering management/business.

3. A culminating event is required and will be identified by the student's advisory committee. It could be a final examination or the final report for an applied project.

4. Additional requirements may exist for some academic units.

Admission Requirements: Applicants must submit:

1. The Graduate College online application.
2. Applicants must have earned a B.S. in computer engineering, software engineering or a related field.
3. A minimum grade point average of 3.00 (on a 4.00 scale) in the last 60 credit hours of the undergraduate transcript (or for the last 12 units of the post-baccalaureate transcript).
4. GRE scores are not required.
5. Applicants whose native language is not English must provide evidence of English proficiency according to the guidelines defined by the ASU Graduate College.

Contact:
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Industrial Engineering (MS) ESINDENMS
Ira A. Fulton School of Engineering

(This major is no longer accepting applications)

Official Degree Awarded: MS Industrial Engineering

Program Description: This program does not accept applications to the M.S. directly. Students should apply to the M.S.E. program at https://webapp.asu.edu/eadvisor/MajorInfo.external?sp=SASU00&sp=SESINDENMSE&sp=Sgraduate, and, once admitted, consult with the M.S.E. program if interested in the M.S. program.

Industrial engineering combines knowledge from the physical, mathematical and social sciences to design efficient manufacturing and service systems that integrate people, equipment and information. Improvements made by industrial engineering in automation, information control and process quality revolutionized manufacturing in the past century and greatly increased our quality of life. Trends towards globalization, increased complexity and rapid technological innovation create an even greater need for industrial engineering in the 21st century.
Successful industrial engineering concepts are also spreading to the financial, logistics and health care service industries, affording new areas of opportunity. The Department of Industrial, Systems and Operations Engineering at ASU is ranked among the top 20 in the nation for graduate programs.

Program Requirement: The 30-credit-hour program requires 24 credit hours of course work and six credit hours of thesis.

Core courses:

- IEE 505
- IEE 545, 566, or 567
- IEE 572 or 578
- IEE 574 or 575
- Three to four area courses
- Zero to one elective course
- IEE 599 Thesis (6)

A final oral examination in defense of the thesis is required.

Admission Requirements: Students applying to an M.S. in industrial engineering must initially apply to the M.S.E. program. Students who later obtain a research advisor may transfer to the M.S. program. Students pursuing the M.S. thesis option must have a cumulative GPA of 3.20 in their course work.

Contact:
Industrial, Systems & Operations Engineering Prgm
http://ie.fulton.asu.edu/
askee@asu.edu
ERC 552
480/965-6874

Industrial Engineering (MSE) ESINDENMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Industrial Engineering

Program Description: The faculty in the Ira A. Fulton School of Engineering offers a professional program leading to the M.S.E. in industrial engineering. The program is designed to bridge the gap between knowledge of engineering sciences and creative engineering practice, while at the same time increasing the depth and breadth of knowledge in selected areas of emphasis. The program of course work applicable to the degree is potentially unique for each student, although it must conform to the general guidelines for subject matter content for the degree.

Program Requirement: The 30 credit hour program requires four core courses, four area courses, two electives and a written comprehensive examination.
**Core courses:**

IEE 505
IEE 545, 566, or 567
IEE 572 or 578
IEE 574 or 575
Four area courses
Two elective courses

A final comprehensive examination on three of the four core courses is required. A student who maintains a 3.75 GPA in the four core courses is exempt from the written comprehensive examination.

**Admission Requirements:** For full consideration, a complete application is required by the specified deadline. Check the program Web site for more information.

Submit online application to the Graduate College. Required supplementary application materials include:

1. A statement of purpose.
2. GRE scores.
3. Three letters of recommendations.

At the time of the application, all applicants must have completed a minimum of 12 credit hours of calculus mathematics with a grade of “C” (2.00) or higher. Additionally, the following prerequisite ASU courses will be evaluated in the student’s transcripts to see if the student has met the minimum admission requirements:

CSE 110 Principles of Programming with Java
CSE 205 Concepts of Computer Science and Date Structures
IEE 380 Probability and Statistics for Engineering Problem Solving
IEE 385 Engineering Statistics with Probability
IEE 376 Operations Research Deterministic Techniques/Applications
MAT 242 Linear Algebra

**Contact:**
Industrial, Systems & Operations Engineering Prgm
http://ie.fulton.asu.edu/
ie@asu.edu
GWC 502
480/965-6874

**Industrial Engineering (PhD) ESINDENPHD**
Ira A. Fulton School of Engineering

**Official Degree Awarded:** PHD Industrial Engineering
Program Description: The industrial, systems and operations engineering faculty offer a Ph.D. in industrial engineering. The overall educational objective of graduate study in industrial engineering is to improve each student's ability to understand, analyze, resolve problems and perform original research. Industrial engineers must develop qualitative and quantitative abilities to guide the design and operation of complete organizations.

The industrial, systems and operations engineering faculty are internationally recognized for their innovative research projects, funded through both the government and industry.

Program Requirement: The Ph.D. requires a minimum of 85 credit hours after the bachelor's degree:

- A minimum of 57 credit hours of graduate course work
  - IEE 792 Research (12)
  - IEE 799 Thesis (12)
  - IEE 594 Conference and Workshop (1)
  - IEE 700 Research Methods (1)
  - IEE 784 Teaching Internship (1)
  - IEE 790 Independent Study or IEE 584 Internship (1)

As part of the degree requirements, students are required to successfully pass the qualifying examination after one year on the core courses outlined by the graduate programs office at the start of the program.

A written and an oral comprehensive examination is required on or before completion of the 57 credit hours of course work in the program of study. The candidate must also successfully pass the dissertation prospectus and the dissertation oral defense.

Admission Requirements: For full consideration, a complete application is required by the specified deadline. Check the program's Web site.

Submit online application to the Graduate College. Required supplementary application materials include:

1. A statement of purpose.
2. Three letters of recommendation.
3. GRE scores.

At the time of application, all applicants must have successfully completed a minimum of 12 credit hours of calculus mathematics with a grade of "C" (2.00) or higher. Also, the following prerequisite courses will be evaluated in the student’s transcripts to see if the student has met the minimum admission requirements.

ASU courses:
Contact:
Industrial, Systems & Operations Engineering Prgm
http://ie.fulton.asu.edu
ie@asu.edu
GWC 502
480/965-6874

Master of Engineering (MEng) ESENGRMENG
Ira A. Fulton School of Engineering

Official Degree Awarded: MEng Engineering

Program Description: When pursuing a M.Eng., students can customize their learning experience by selecting a curriculum that addresses their academic and professional goals. The M.Eng. is designed for working professionals and delivered entirely online to meet the unique needs of professional engineers. It is a practice-oriented degree.

In the M.Eng. program, multiple emphasis areas are available with additional areas under development. Within each area, there are specific course requirements in addition to the general program requirements. Students can select a traditional area of study, such as electrical and mechanical engineering, or one of the nontraditional areas of study, such as embedded systems, modeling and simulation, quality and reliability, and systems engineering.

Engineers who enter the M.Eng. program have the opportunity to gain valuable experience applicable to their industry while gaining an advanced degree. Convenience and flexibility are key advantages of this program. The M.Eng., which can be earned totally through distance learning, is a 30-credit-hour degree program that does not require GRE results, a thesis or on-campus attendance.

The M.Eng. is only available through distance learning. The degree program is supported through online courses available from the Ira A. Fulton School of Engineering.

Program Requirement:

1. Students must complete a total of 30 credit hours equaling 10 courses to earn a M.Eng. One half of all course work, excluding the practice-oriented project, must be in engineering.
2. Students must complete three credit hours of applied engineering mathematics and three credit hours of engineering management/business.
3. A culminating event is required and will be identified by the student's advisory committee. It could be a final written or oral examination or the final report for a practice-oriented project. Additional requirements may exist for some academic units and emphasis areas of the M.Eng. program.

Admission Requirements:

1. The Graduate College online application.
2. Bachelor's degree required with a background for the desired field of study.
3. A minimum GPA of 3.00, on a 4.00 scale, for the last 60 credit hours of the undergraduate transcript.
4. Graduates of non-U.S. institutions must satisfy admission requirements established by the ASU Graduate College.
5. Applicants whose native language is not English must provide evidence of English proficiency according to the guidelines defined by the ASU Graduate College.
6. GRE scores are not required.

Contact:
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http://www.asuengineeringonline.com
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BYENG 310
480/965-1740

Materials Science and Engineering (MSE) ESMATEMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Materials Science and Engineering

Program Description: The School of Materials offers an M.S.E. in materials science and engineering. This degree does not require a thesis. The program is intended for students who are working full-time in local industry. Many of the courses are offered online. Three concentration options are available:

- General.
- Semiconductor processing and packaging (SPP) processing track.
- Semiconductor processing and packaging (SPP) packaging track.

Courses for the SPP concentrations are available entirely online.

Program Requirement: A total of 32 credit hours are required for the M.S.E. in materials science and engineering. Students must take 30 credit hours of technical electives, with the following conditions:
1. Either IEE 570 Advanced Quality Control or IEE 572 Design of Experiments are highly recommended.
2. Up to six credit hours may be at the 400 or higher level.
3. Up to nine credit hours may be outside MSE, by approval.
4. Up to six credit hours of either applied project or reading and conference may be taken in place of six credit hours of electives.

Students must take two credit hours of seminar (MSE 591), which is one credit hour per semester.

Preparatory Courses

Students who do not have a background in materials science and engineering may have to take prerequisite or deficiency courses. Students should contact the graduate advisor to discuss any deficiencies.

Financial Aid

Financial aid is not available for materials science and engineering students.

Faculty Supervisory Committee

Students select a supervisory committee consisting of three members from the graduate faculty in the School of Materials, which includes both core and affiliate faculty. The majority of members should be full-time faculty in the School of Materials. The committee may include research scientists, academic and industrial professionals and other non-ASU-affiliated individuals, subject to approval by the school director and the Graduate College.

Interactive Plan of Study (iPOS)

The interactive plan of study (iPOS) is an online form that all graduate students must submit by the time they reach 26 credits or enroll in 50 percent of the degree requirements. The form lists the course work taken and the course work to be taken to complete the credit and course requirements for the degree. The iPOS becomes a contract between the university and the student that guides the student in completing the degree requirements. The iPOS must be approved by the student’s faculty committee, the academic unit and the Graduate College.

Culminating Event

A final comprehensive examination that captures the essence of the master’s degree focus and represents a major portion of the student’s course work is required for students in this degree. The examination consists of an applied project culminating in a final overview report and oral presentation incorporating knowledge gained from the program with integration and reflection of learning as applied to the job.
This comprehensive report, typically 20-25 pages (double-spaced) plus figures, is on a topic of their choice and approved by the faculty supervisory committee. Arrangements can be made for the distance learning students to conduct an oral examination by telephone.

Graduation

The student is eligible for graduation when all course work is finished, the culminating report has been approved, presented and submitted to the Graduate College and all other graduation requirements have been met.

Admission Requirements: Application requirements, procedures and deadlines are outlined in the School of Materials Web site at http://som.asu.edu. Applicants must submit the Graduate College online application. Admission to the School of Materials graduate programs is highly competitive. The program cannot determine an applicant's chances of admission in advance. All application materials must be submitted and once the application file is complete, it is then forwarded to the Graduate Admissions Committee for evaluation and recommendation. Recommendations are sent to the Graduate College, where they are subject to final review. The Graduate College will send the applicant a formal letter of acceptance or denial. The application deadline for the fall semester is Jan. 31; spring semester, Sept. 30.

Applicants must submit the following application materials:

1. Online application.
2. Applicable application fees.
4. Test of English as a Foreign Language (TOEFL) score for international students.
5. Supplemental application.
6. Resume.
7. Statement of purpose.
8. Three letters of recommendation.

GRE scores are not required for admission to the M.S.E. program.

Contact:
Materials Program
http://som.asu.edu
som-grad@asu.edu
ECG 303
480/727-9314

Materials Science and Engineering (PhD) ESENMATPHD
Ira A. Fulton School of Engineering
Official Degree Awarded: PHD Materials Science and Engineering

Program Description: The School of Materials offers a Ph.D. in materials science and engineering at Arizona State University. This graduate program prepares students for professional careers in materials science and engineering and related fields in industry, government and educational institutions.

Program Requirement:

1. Credit Requirements

The Ph.D. in materials science and engineering consists of 84 credit hours of graduate work. A total of 10 lecture courses (30 credits) plus three credits of seminar are required. Students entering the program with a master’s degree in materials science may apply up to 30 credits toward the Ph.D. program of study, but must take five lecture courses at ASU. If the M.S. has not been completed, a maximum of 12 credit hours of graduate work may be applied.

2. Required Courses

The core courses contain the foundation knowledge in the discipline of materials science that will prepare students for further graduate study in specialized areas, represented elective courses. The four lecture courses should be completed in the first two semesters of the program, in preparation for the qualifying examination, which students must take after completing the core courses.

Any core course may be waived by petition to the associate director of the graduate program, with evidence of an equivalent course at another accredited university with a grade of “B” (3.33) or better. The student must provide proof in the form of transcripts and a syllabus of that course. A petition should be submitted to the associate director of the graduate program who reviews requests for waivers or substitutions of the core courses. Students are expected to demonstrate a working knowledge of this material in the qualifying examination. The following are required courses, for a total of 15 credit hours:

**Core Courses**

- MSE 523 Structure and Mechanical Properties (3)
- MSE 524 Advanced Thermodynamics (3)
- MSE 525 Physics of Materials or MSE 526 Materials Physics I and MSE 527 Materials Physics II (3)
- MSE 561 Kinetics and Phase Transformations in Solids (3)
- SEM 591 Graduate Student Seminar (3)

3. Electives

Graduate elective courses may be selected from any of the courses in the School of
Materials (with the MSE prefix) as well as courses from related disciplines such as chemistry, physics, electrical engineering, etc., subject to approval by the faculty advisor. These courses should comprise a focused program of study in a particular area of materials science, organized in consultation with faculty supervisory committee. A current list of course offerings may be found at http://som.asu.edu.

4. Interactive Plan of Study (iPOS)

The interactive plan of study is an online document where the student lists the courses he/she has taken and the courses he/she will take to complete the 84 credits required for the degree, which would include research and dissertation credits. The student should file the (iPOS) prior to completing 50 percent or 42 credits of the required course work. The iPOS can be accessed through My ASU at http://my.asu.edu.

5. Faculty Supervisory Committee

Students select a faculty supervisory committee consisting of three to five members from the roster of Graduate Faculty in the School of Materials, which includes both core and affiliate faculty. The chair and the majority of members should be full time faculty or affiliated faculty in the School of Materials. The committee may include research scientists, academic and industrial professionals and other non-ASU-affiliated individuals, subject to approval by the school director and the Graduate College.

6. Qualifying Examination

All students in the Ph.D. program must pass a qualifying examination. A single repeat attempt is allowed. This examination should be taken at the beginning of the third semester, immediately following completion of the four core courses, but no later than the fourth semester. The format is a 90-minute, oral examination covering the material in the four core courses.

7. Comprehensive Examination and Dissertation Prospectus

All students in the Ph.D. program must take a comprehensive examination, which should be completed within two semesters of passing the qualifying exam. This exam consists of a 20-25-page report on the topic of the expected thesis subject, which is presented orally to the student’s faculty supervisory committee. The policy and procedures for the doctoral comprehensive examination is outlined in the student handbook. This also comprises the dissertation prospectus.

8. Dissertation Credits
Ph.D. students must take 12 dissertation credits to complete the Ph.D. program of study. Dissertation credits should be taken once the student begins research on a dissertation topic under the guidance of a faculty mentor.

9. The Dissertation

The Ph.D. dissertation is based on original and independent research conducted by the student, under the guidance of the faculty mentor and the faculty advisory committee. The dissertation should demonstrate the candidate’s mastery of research methods, theory and tools of the discipline. The dissertation should demonstrate the candidate’s ability to address a major intellectual problem and to propose meaningful questions and hypothesis. The student must also present their dissertation in an oral defense to the faculty supervisory/dissertation committee. Ph.D. dissertation defenses are open to all members of the university community. Announcements are sent to materials science and engineering faculty and students and the announcement is also printed in the university newspapers. A copy of the dissertation is given to the graduate programs office and a copy is placed in the ASU library.

Admission Requirements: Specific requirements and procedures for application to the School of Materials graduate programs can be found at http://som.asu.edu.

In summary, applicants must submit the following application materials:

1. Graduate College online application.
2. Applicable application fees.
4. GRE score.
5. Test of English as a Foreign Language (TOEFL) score for international students.
6. Supplemental application.
7. Resume.
8. Statement of purpose.

Once the application file is complete, the file is forwarded to the faculty admissions committee for evaluation and recommendation. Financial aid is available to highly qualified students. The most common type of financial aid is teaching and research assistantships, which are accompanied by waivers of tuition and major medical insurance benefit. Other types of financial aid include Fulton School fellowships and Science Foundation Arizona fellowships.

Contact:
Materials Program
http://som.asu.edu
som-grad@asu.edu
Mechanical Engineering (MS) ESMEMS
Ira A. Fulton School of Engineering

Official Degree Awarded: MS Mechanical Engineering

Program Description: The mechanical and aerospace engineering faculty offer a graduate program leading to the M.S. in mechanical engineering. A number of wide and diverse research areas may be pursued. All of the graduate programs stress a sound foundation leading to a specialized area of study. Additional information can be found in the mechanical and aerospace guidelines at http://mae.fulton.asu.edu/graduate/.

Program Requirement: The M.S. is the research master's degree; majors in aerospace engineering and mechanical engineering are available. All candidates for the M.S. are required to complete 30 credit hours and a thesis.

The student is encouraged to select a program committee chair (faculty advisor) as soon as possible but must select a program committee chair prior to completing 15 credit hours. The name of the student's program committee chair must be filed with the graduate programs office. A change of program committee chair requires approval of the mechanical and aerospace engineering graduate programs office.

The program committee chair, in consultation with the student, will establish a Master of Science Program Committee. The Master of Science Program Committee shall be composed of a minimum of three members from the ASU faculty with at least two being from mechanical and aerospace engineering faculty. Participation of individuals from institutions external to ASU is encouraged but these shall be non-voting members.

As soon as possible, but prior to completing 15 credit hours, the student, in consultation with the program committee chair, must file a program of study (POS) with the university. The Master of Science Program Committee and the Mechanical and Aerospace Engineering chair must approve changes to the POS.

The POS must be in accordance with university and program requirements. For students currently enrolled in a master's degree program at another institution and wishing to transfer to ASU, note that a maximum of six credit hours may be counted toward an M.S. at ASU. A minimum cumulative GPA of 3.00 is required throughout the program. Candidates for the M.S. must complete a minimum of 30 credit hours of course and thesis work distributed as follows:

1. At least 12 credit hours of course work directly related to the research area.
2. At least six credit hours of mathematics.
3. At least six credit hours of graduate courses outside the major research area; these must be in mathematics, engineering and/or science.

A final defense of the thesis will be administered by the Master of Science Program Committee.

Admission Requirements:

1. Student interested in applying to this program must submit the Graduate College online application. A minimum GPA of 3.00 (on a 4.00 scale) is required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.
2. All applicants are required to take the GRE.
3. Students who do not have English as their primary language are required to achieve a minimum score of 80 on the internet-based Test of English as a Foreign Language (TOEFL).
4. Three letters of recommendation are required, using the format specified by the Mechanical and Aerospace Engineering.
5. All applicants are required to submit a statement of academic and career objectives and address the desire to pursue graduate studies at ASU in mechanical engineering.

Contact:
Mechanical and Aerospace Engineering Program
http://mae.fulton.asu.edu
mae@asu.edu
ECG 325
480/965-7261

Mechanical Engineering (MSE) ESMEMSE
Ira A. Fulton School of Engineering

Official Degree Awarded: MSE Mechanical Engineering

Program Description: The mechanical and aerospace engineering faculty offer a graduate program leading to the M.S.E. in mechanical engineering. A number of wide and diverse research areas may be pursued. All of the graduate programs stress a sound foundation leading to a specialized area of study. Additional information can be found in the Mechanical and Aerospace program guidelines at http://mae.fulton.asu.edu/graduate.

Program Requirement: The M.S.E. is the professional degree; majors in aerospace engineering and mechanical engineering are offered. Only the non-thesis option is available in mechanical and aerospace engineering. A minimum of 30 hours must be completed for this degree.

The student is encouraged to select a program committee chair (faculty advisor) as
soon as possible but must select a program committee chair prior to completing 15 credit hours. The name of the student’s program committee chair must be filed with the graduate programs office. A change of program committee chair requires approval of the mechanical and aerospace engineering programs office.

The program committee chair, in consultation with the student, will establish a Master of Science in Engineering Program Committee (MSEPC). The MSEPC shall be composed of a minimum of three members from the ASU faculty with at least two being from mechanical and aerospace engineering faculty.

As soon as possible, but prior to completing 15 credit hours, the student, in consultation with the program committee chair, must file a program of study (POS) with the University. The MSEPC and the mechanical and aerospace engineering programs office must approve changes to the POS.

The POS must be in accordance with university and program requirements. For students currently enrolled in a master’s degree program at another institution and wishing to transfer to ASU, note that a maximum of six credit hours may be counted toward an M.S.E. at ASU. A minimum cumulative GPA of 3.00 is required throughout the program. Candidates for the M.S.E. must complete a minimum of 30 credit hours of course work distributed as follows:

- At least fifteen 15 credit hours of course work directly related to a research area.
- At least six credit hours of mathematics.
- At least nine credit hours of graduate courses outside the major research area; these may be engineering, science, mathematics or other areas approved by the student’s program committee, the director of graduate studies and the graduate programs office.

A final comprehensive examination or applied project will be administered by the MSEPC. The purpose of this culminating event is to determine the student’s ability to integrate the knowledge gained in his or her course work.

Admission Requirements:

1. Student interested in applying to this program must submit the Graduate College online application. A minimum GPA of 3.00 (on a 4.00 scale) is required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.
2. All applicants are required to take the GRE.
3. Students who do not have English as their primary language are required to achieve a minimum score of 80 on the internet-based Test of English as a Foreign Language (TOEFL).
4. Three letters of recommendation are required, using the format specified by Mechanical and Aerospace Engineering.
5. All applicants are required to submit a statement of academic and career objectives and address the desire to pursue graduate studies at ASU in mechanical engineering.

Contact:
Mechanical and Aerospace Engineering Program
http://mae.fulton.asu.edu
mae@asu.edu
ECG 325
480/965-7261

Mechanical Engineering (PhD) ESMEPHD
Ira A. Fulton School of Engineering

Official Degree Awarded: PHD Mechanical Engineering

Program Description: The graduate programs in Mechanical and Aerospace Engineering accommodate individual interests and encourage independent and innovative study. Students are part of a diverse intellectual community dedicated to advancing the state of the art and practice of aerospace and mechanical engineering. All graduate programs stress a sound foundation in technical fundamentals, communication and professionalism. Additional information can be found in the Mechanical and Aerospace Engineering program guidelines at http://mae.fulton.asu.edu/graduate/.

Program Requirement: The Ph.D. is directed toward original research. Candidates for the Ph.D. must complete a minimum of 84 credit hours. The student is required to write and defend a dissertation that describes an original contribution within the chosen discipline. The research results should be suitable for publication in a reputable journal. The Ph.D. is currently offered for majors in aerospace engineering and mechanical engineering.

The student must select a program committee chair (faculty advisor) with the selection being made prior to completing 42 credit hours. The program committee chair’s name must be filed with the graduate programs office. A change of program committee chair requires approval of the Mechanical and Aerospace Engineering programs office.

A graduate student pursuing a Ph.D. program of study in aerospace or mechanical engineering, must complete within the first year of his/her graduate studies at ASU, three 500-level (preferably core) courses in the major area and one 500-level mathematics course with an average GPA of 3.25 or higher. Specific qualifying course requirements for each major area are identified in the MAE graduate guidelines.

University regulations note the possibility of having two separate supervisory committees, a program committee and a dissertation committee. In Mechanical and
Aerospace Engineering these will normally be one and the same and will be designated as the program committee. The program committee chair, in consultation with the student, will establish a program committee, the purposes of which are to:

1. Approve the program of study (POS).
2. Provide guidance for the student’s research.
3. Administer the comprehensive examination.
4. Administer the dissertation defense.

The program coordinator shall consist of at least five ASU faculty with the majority being from MAE faculty, but at least one being from outside the program. Participation of individuals from institutions external to ASU is encouraged, but these shall be non-voting members. Furthermore, the program committee should have the following character:

1. Advisor (program committee chair); must be from MAE.
2. Two or three additional faculty in the student’s general area of research.
3. At least one faculty outside the student’s general area of research (e.g., mathematics, physics or other engineering disciplines).

Note: A change in the program committee requires approval of the graduate programs office.

The student, in consultation with his/her program committee chair and the program committee, must file a POS prior to completing 42 credit hours. The POS must meet general university requirements, including residency and the need for rigorous fundamental knowledge of engineering principles. Thirty credit hours of appropriate course work from a previously earned master's degree may be applied toward the total credit hours; at least 54 hours must be taken at ASU. A minimum cumulative GPA of 3.25 is required. Ph.D. candidates must complete a minimum of 84 credit hours of course and dissertation work, distributed as follows:

- At least 18 credit hours of course work directly related to the research area (major).
- At least nine credit hours of mathematics.
- At least nine credit hours of graduate courses outside the major research area; these must be in mathematics, engineering and/or science.
- 12 hours of MAE 799 dissertation.
- MAE 792 research credit hours may be applied toward the 84 total hours.

All students intending to earn the Ph.D. are required to pass a comprehensive examination. The examination will be administered by the program coordinator and consists of two parts:

1. Subject matter examination
• The purpose of this portion of the examination is to determine a student's grasp of essential concepts relevant to the Ph.D. in general and the student's ability to project beyond existing knowledge. Written and oral questions covering the student's graduate course work must be included.

2. Research Proposal
• The purpose of this portion of the examination is to evaluate a student’s research acumen and ability to develop and present an original research proposal; and, equally important, to advise the student in finalizing successful research goals and procedures. The formal written proposal containing the research goals, methodology, expected results and contributions of publishable quality will be defended orally before the entire committee.

The comprehensive examination is taken soon after completing the Ph.D. qualifying requirements, or qualified Ph.D. students should take the examination by their fifth semester as full-time students in the mechanical and aerospace engineering Ph.D. program and must pass the examination by the end of the sixth semester. Part-time students should apprise the mechanical and aerospace engineering chair of a timely schedule for exam completion. Ph.D. students achieve candidacy status in a letter from the graduate college dean upon passing the comprehensive examination and successfully defending the dissertation prospectus.

The dissertation defense is an oral examination administered by the program committee in accordance with Graduate College guidelines. The purpose of the examination is to evaluate the student’s research efforts and written presentation (dissertation), and to determine if the candidate is worthy of receiving a Ph.D. The major area of emphasis of this examination is the student’s research dissertation and the general areas of study related thereto. The final dissertation defense must be taken within five years of passing the comprehensive examination.

Admission Requirements:

1. Student interested in applying to this program must submit the Graduate College online application. A minimum GPA of 3.00 (on a 4.00 scale) is required for graduates from accredited U.S. institutions. The Graduate College is responsible for international GPA interpretation.
2. All applicants are required to take the GRE.
3. Students who do not have English as their primary language are required to achieve a minimum score of 80 on the internet-based Test of English as a Foreign Language (TOEFL).
4. Three letters of recommendation are required, using the format specified by Mechanical and Aerospace Engineering.
5. All applicants are required to submit a statement of academic and career objectives and address the desire to pursue graduate studies at ASU in mechanical engineering.
Nuclear Power Generation (Grad Certificate) ESNPGGRCT

Official Degree Awarded: CERT Nuclear Power Generation (Certificate)

Program Description: The nuclear power generation (NPG) graduate certificate is a multidisciplinary professional option within the Ira A. Fulton School of Engineering. The goal of the NPG certificate program is to prepare students and professionals from a variety of engineering and scientific disciplines to work effectively in the nuclear power industry. The certificate program offers students a comprehensive, interdisciplinary education as courses from multiple academic units constitute both the core and elective classes available to the student.

Students typically begin with the study of nuclear science and engineering fundamentals. Subsequent core courses focus on reactor theory, power plant dynamics, structural materials, and operational safety.

Elective courses allow students to tailor the remaining studies toward facilitating their career goals and focusing on studies tied to their discipline. The primary mode of instructional delivery is online using the facilities of the Engineering Office of Global Outreach and Extended Education (GOEE).

Program Requirement: Core courses* with a total of 18 required credit hours:

- MSE 565 Structural Materials in Nuclear Power Systems (3)
- EEE 562 Nuclear Reactor Theory and Design (3)
- EEE 563 Nuclear Reactor System Dynamics and Diagnostics (3)
- EEE 564 Interdisciplinary Nuclear Power Operations (3)
- Electives (6)

*EEE 460 Nuclear Power Engineering is a prerequisite to the core courses; for those students who have not successfully completed such a course, EEE 460 may be taken as an elective prior to enrolling in the core courses and applied toward the 18 hours required for the graduate certificate.

Students must enroll in at least six credit hours per calendar year. The certificate program must be completed within five calendar years. All courses which will count for the certificate must have a cumulative GPA of 3.00 or higher, and each course used to earn the certificate must be completed with a grade of “C” (3.00) or higher.

Admission Requirements: Applicants who hold a bachelor’s degree in an engineering or science discipline, such as physics, chemistry and mathematics, from a regionally
accredited institution are eligible to apply to the program. Applicants are required to submit:

1. An official ASU graduate online application.
2. Official transcripts of all undergraduate and graduate course work.
3. A statement of career and educational goals.

Regular admission may be granted to applicants who have achieved a GPA of 3.00 (4.00 scale) or better in the last two years of work leading to a bachelor's degree and are competitive in the applicant pool.

Contact:
Department of Electrical Engineering
http://ee.fulton.asu.edu/
askee@asu.edu
GWC 212
480/965-3590

Graduate College

Biological Design (PhD) GCBDSPHD
Graduate College

Official Degree Awarded: PHD Biological Design

Program Description: The doctoral program in biological design seeks to develop a new type of scientist by training students in core disciplines related to biology while simultaneously preparing them to participate successfully in the interdisciplinary research teams of the future.

The research emphasis is on projects that are use-inspired, contributing directly to solutions for important societal challenges. This is a highly mentored program of personalized study that provides significant interaction with the large and vibrant research community at ASU and with partner organizations locally and nationally. Students are expected to complete the program in four to five years. Students accepted into the biological design Ph.D. program will be supported as research assistants in the first year of study and generally through the term of their studies.

Program Requirement: The Ph.D. program requires 84 credit hours, a comprehensive examination, a defense of a written dissertation, required course work BDE 701, BDE 702, BDE 721, BDE 722, BDE 751 and 6 credits of elective courses. Because this is a highly-mentored program designed around each student, your advisor will provide guidance on the appropriate curriculum based on your core discipline of interest.

The key distinguishing features of the curriculum are:
• A personalized program of study that allows you to explore the disciplinary areas of greatest interest to you.
• Three ten-week laboratory rotations during your first year of study.
• A two-semester core course sequence consisting of two courses that will provide core training in all the relevant bio-related areas.
• Encouragement to choose dissertation research projects that are use-focused, contribute to solving a large-scale challenge and promise rich interdisciplinary experiences.
• Students accepted into the biological design Ph.D. program will be supported as research assistants in the first year of study and generally through the term of their studies.

If you are accepted to the biological design Ph.D. program:

During the first academic year, in addition to a core course sequence, you will complete three 10-week laboratory rotations. Rotations can be in any laboratory on the ASU campus provided it is centered largely on biological research and is approved by the biological design graduate faculty chair. Your advisor will help coordinate these rotations to help you choose the best laboratory and mentor for you, and one which exposes you to diverse approaches to science.

At the end of the first year of course work and rotations (May), you will choose a lab and professor to work in consultation with the Biological Design Program and prospective mentors. One semester of teaching assistant participation will be required to gain experience in teaching. All biological design graduate students, through the course of the graduate experience, will participate in special seminars, meetings and social activities to encourage broad research interactions. You will be eligible for program support to attend scientific meetings.

You may request to work in a laboratory at ASU the summer prior to the start of your graduate studies.

Admission Requirements: Applications for the biological design Ph.D. program are taken and processed through the ASU Graduate College. The application deadline for the program is Jan. 1.

Prior to submitting the online application, candidates should prepare the following documents (these documents can be uploaded into the application as .doc, .rtf. or .txt file types):

1. Personal Statement: This document should reflect your career and educational goals, and should explain why you are interested in pursuing this program. Candidates should describe their prior and current research experience. Your statement should be one to three pages.
2. Resume: Your resume should reflect your prior research and employment experience and list honors, awards, memberships held and any publications.
Additionally, candidates must submit the following information:

1. GRE test scores: The institution code for ASU is 4007 and the department code is 0000. Subject test scores are also recommended but not required.

2. Letters of Recommendation: Please enter the names and contact information for three recommenders into the online application where requested. Recommendations should be relative to your academic career. Recommenders will receive the request to provide recommendations by automatic e-mail.

For additional Graduate College application requirements, including transcripts, fee and international application requirements, please see http://www.asu.edu/graduate/admissions/admissions_checklist.htm.

Contact:
Graduate College
http://biologicaldesign.asu.edu/
biologicaldesign@asu.edu
BD A320CB
480/727-9298

Human and Social Dimensions of Science and Technology (PhD) GCHSDSTPHD
Graduate College

Official Degree Awarded: PHD Human and Social Dimensions of Science and Technology

Program Description: Under the auspices of the Graduate College, a steering committee administers the Ph.D. program in human and social dimensions of science and technology (HSD). This program prepares students to teach and conduct research on the conceptual, historical, social and policy foundations of science and technology and their interactions with society, using humanistic and social scientific methods.

The HSD program responds to the growing demand for interdisciplinary research in the humanities and social sciences that can provide insights into the dynamic relationship between science, technology and society. Solutions to the problems of applying science and technology to human well-being can only be found by fully integrating research from across many social science and humanities disciplines. The Ph.D. program in HSD is flexible, combining a strong, integrated, first-year experience, with substantial freedom for students, in conjunction with their advisors, to design carefully crafted programs of study relevant to their own areas of specialization and expertise. Unique among programs of this kind nationally, students will also learn to communicate and work with scientists, engineers, policy, business and community officials and/or the public in conducting and applying research.
**Program Requirement:** The Ph.D. in HSD is a research degree, culminating in a dissertation, which must draw on multiple disciplinary perspectives.

The degree requires completion of 84 credit hours, of which 12 hours (and only 12) are for dissertation. Students may apply up to 30 hours from a prior master's degree toward the total hour requirement upon approval of the steering committee. Each student, with his or her supervisory committee, develops a unique program of study, which the student's supervisory committee approves.

Each student completes a year-long core seminar, a second-year research project, two major fields, one minor field, methods training, electives and research. Students also regularly attend the program colloquia. There are no foreign language or statistics requirements, except as needed for certain dissertation projects.

**Fields**

In consultation with the student's supervisory committee, each student develops three distinct fields to provide the in-depth training necessary to formulate and carry out his or her dissertation research. Each student must complete two major and one minor field. Major fields consist of the equivalent of three courses of specialized work (either in existing elective courses or through independent reading or research projects) designed to achieve mastery of a particular intellectual subject. The minor field consists of the equivalent of two courses of specialized work. For each field, the supervisory committee and student will select a field director, who is a member of the student's supervisory committee and who will be responsible for working with the student to determine field content as well as the format for demonstrating mastery of the field, such as a field exam, field paper or exemplary course paper.

After the completion of course work or other assigned activities for each field, a student will demonstrate mastery of the field. The student's supervisory committee will assess mastery, in a format proposed by the committee and the student and approved to by the steering committee. Common formats for demonstrating mastery of a field include a field exam, a field paper or an exemplary course paper. The timing of demonstration of mastery of each of the three fields is determined by the student and his or her supervisory committee; the demonstrations need not occur at the same time.

**Supervisory Committee**

Each student appoints his or her supervisory committee no later than the end of the second semester of program enrollment. A supervisory committee includes a chair, who is a tenured or tenure-track faculty member of the HSD faculty, and two to four additional members. Fifty percent or more of the supervisory committee members must be HSD faculty. The student's field directors are members of his or her supervisory committee. A student may change the members of his or her supervisory committee with approval of the program steering committee chair.
Study Plan and Study Plan Review

During the second semester, each student develops, in collaboration with the student's supervisory committee, a study plan. The study plan specifies the second-year research project topic, fields and electives the student will pursue.

The study plan review is a formal meeting of each student's supervisory committee at which the student presents the study plan for supervisory committee approval. This meeting is typically held during the second semester of enrollment or at the beginning of the third semester. Students may not begin a fourth semester of study without an approved study plan.

Comprehensive Examination

Each student develops a written dissertation prospectus, including a bibliography, discussion of relevant research skills and a brief (less than one page) description of each field completed and how mastery was demonstrated. The dissertation prospectus shows that the student can integrate and synthesize the knowledge and skills developed through course work and apply it to the development of a research project. The student makes an oral defense of the dissertation prospectus to his or her supervisory committee, which must approve the prospectus. The writing prospectus and its oral defense constitute the written and oral comprehensive examinations required by the Graduate College for advancement to candidacy. Students normally complete the dissertation prospectus and its defense in the fifth semester.

Dissertation

The Ph.D. dissertation represents an original body of research that contributes to existing knowledge in a significant way.

Final Examination

Upon completing the dissertation, the student makes an oral defense of the dissertation to his or her supervisory committee, which must approve the dissertation. The Ph.D. is granted upon successful completion of the oral defense and any revisions to the dissertation required by committee members.

Admission Requirements: Preference is given to students with demonstrated interest and competence in relevant areas of intellectual work. All students must hold an undergraduate degree from a regionally accredited institution or university of recognized standing when they enter, and have a minimum GPA of 3.00 (on a 4.00 scale) for the last 60 credit hours of undergraduate work.

To apply to the program, applicants are required to submit:
1. An official ASU Graduate College application.
2. Official transcripts of all undergraduate and graduate course work.
3. The HSD academic record form.
4. A curriculum vitae or resume.
5. A statement of proposed research program that clearly identifies why the student feels ASU is the appropriate place to pursue his or her Ph.D. degree and identifies one or more faculty member(s) whose interests and/or work are relevant to the student’s proposed research.
6. A writing sample.
7. General GRE scores.
8. Three academic letters of recommendation.

Regular admission may be granted to applicants who meet Graduate College admission requirements.

Contact:
Graduate College
http://hsd.asu.edu
hsd@asu.edu
LSC 284
480/965-1778

Neuroscience (PHD) GCBMENPHD
Graduate College

Official Degree Awarded: PHD Neuroscience

Program Description: Neuroscience involves the study of the nervous system and its relation to an organism’s function. It encompasses how gene and nerve networks interact with the environment throughout an organism’s development to account for behavior. The study of neuroscience is essential for the understanding of many brain and neuromuscular diseases, their treatment and rehabilitation and must incorporate studies at multiple levels of function, including studies at the cellular, organ and organism level. Therefore, this program will bring together broadly distributed research programs in the analysis of nervous system function from many disciplines including biology, mathematics, biochemistry, engineering and psychology. As such, the field of neuroscience is broadly interdisciplinary and is not adequately captured by any single existing academic program. In fact, most research programs are not carried out by a single investigator. Instead research emphasizes teamwork by integrating researchers from several disciplines.

The Ph.D. in neuroscience degree program will also have tremendous social relevance. Many ASU researchers have funding from federal, state and private sources to perform basic research on the relation between the brain, neuromuscular function and behavior. Another major focus of federally funded and industry sponsored neuroscience research lies in understanding the bases for, and ultimately treatment of, many important livestock and human disease conditions. Many times
this type of clinical research involves working directly with patient populations to
develop treatment methodologies. Translational research provides a bridge
between basic and clinical research program. It therefore drives development of
novel technologies of the near future from advances in basic research today. By
enhancing communication between different communities of researchers, the Ph.D.
in neuroscience degree program will build those bridges.

Because of the highly interdisciplinary nature of neuroscience research, there will
be two primary missions of the graduate training program. First, students will need
to receive detailed training in a core discipline that will represent their primary field
of expertise. Second, students will receive training in methods for conduction of
interdisciplinary, collaborative research. At the completion of this program students
will be able to undertake independent research and seek employment in a variety of
public and private settings.

*Program Requirement:* The Ph.D. in neuroscience degree program will integrate
aspects of graduate level training from many different units on campus as well as
from the program’s partner institutions distributed across the greater Phoenix area.
Partner institutions will include, but are not be limited to The Barrow Neurological
Institute (BNI), Translational Genomics Research Institute (TGen) and The Mayo
Clinic and Sun Health.

The program requires the completion of 84 credit hours of which 12 hours, and only
12, are dissertation credits. At least 18 credits of formal course work are required.
In consultation with their committee and their supervisor/mentor, students will be
able to customize their program of study to suit their particular interests and goals.
Each student completes six credit hours of the core course credits. The core course
sequence must be completed before the oral and written evaluation examinations
are taken. Additional credits will be comprised of specialized disciplinary courses or
research credits chosen in consultation with their mentor and advisory committee.

A one-credit-hour seminar will be required each semester.

Advancement to candidacy will be dependent on successfully passing a formal
comprehensive examination that includes both a written proposal of the
dissertation research and an oral examination in the broader areas that pertain to
that research study. When the research is completed, the dissertation must be
written and presented in a public seminar and successfully defended before the
supervisory committee.

*Admission Requirements:* The graduate committee will be responsible for decisions
concerning potential recruitment of students and admission recommendation of
students to the program. They will also be highly active in the recruitment
procedure each year.

*Requirements*
A bachelor’s degree in science or engineering from a regionally accredited institution (or equivalent degree) is required.

1. An official ASU Graduate College application.
2. Official GRE scores.
3. Official transcripts of all undergraduate and graduate course work.
4. A statement of career and educational goals.
5. Three letters of recommendation (two of which should be academic recommendations).

Regular admission may be granted to applicants who have achieved a GPA of 3.00 (4.00 scale) or better in the last two years of work leading to a bachelor's degree and who are competitive in the applicant pool as evidenced by GRE verbal, quantitative and analytical scores, the statement of educational/career goals and the letters of recommendation. Particular attention will be paid to research experience and overall preparation in problem solving abilities as evidenced by previous course work, research experiences and/or GRE scores.

Because this program draws on an extremely broad range of disciplinary backgrounds in recruiting students, there is no specific set of undergraduate course requirements other than those implied by the degree requirements described above. Most students will be expected to have had some biological course work, or demonstrated ability through a subject test GRE. During the first semester, student progress in the core course will be closely monitored for difficulty in specific areas.

Contact:
Gradute College
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INTDSB 288
480/965-7490

Statistics (MS) GCSTATMS
Graduate College

Official Degree Awarded: MS Statistics

Program Description: The committee on statistics offers a program leading to the degree M.S. in statistics. The program is interdisciplinary in that it draws upon faculty research and teaching interests from various academic units so that programs of study can be tailored to reflect individual needs and goals. The committee, which sets program requirements and supervises programs of study, is composed of faculty from departments in the Ira A. Fulton School of Engineering, the College of Liberal Arts and Sciences, the W. P. Carey School of Business and the New College of Interdisciplinary Arts and Sciences.
The program for the M.S. in statistics provides preparation for either a research-oriented or a practice-oriented career. Requirements specific to this program ensure balanced attention to the theoretical and applied aspects of the discipline of statistics. The program prepares students for careers in business, education, industry and government. Graduates understand the theory that is fundamental to proper use of statistics, are knowledgeable about the tools of applied statistics and are familiar with computer software packages available for doing statistical computations. In addition, students interested in research in statistics can obtain the background needed to begin a doctoral program. Flexibility in the program reflects the fact that statistical analysis is one of the most widely used tools of modern scientific reasoning.

Program Requirement: Completion of the degree requires 30 credit hours of approved credit, none of which may be from the prerequisites. The program must include the nine credit hours from three required theory courses:

- Probability (STP 421).
- Mathematical statistics (STP 427).
- Theory of statistical linear models (STP 526).

The required theory courses are fundamental to the education of statisticians and are necessary for more advanced graduate study. Two courses in applied linear statistical models are also required:

- Applied regression analysis (IEE 578, ECN 525 or STP 530).
- Applied analysis of variance/design of experiments (IEE 572, ECN 530 or STP 531).

The program must also include either three credit hours of applied project (IEE 593, ECN 593 or STP 593) or six credit hours of thesis (IEE 599, ECN 599 or STP 599). The applied project or thesis must be defended at an oral examination. The content of the applied project report or thesis must, in its final form, be suitable for submission to an academic journal or conference proceedings. The thesis must conform to Graduate College format requirements.

The remaining nine or 12 credit hours come from elective courses chosen by the student with the approval of supervising faculty. A maximum of six credit hours may be chosen from a related field on which statistics relies (such as computer science) or in which statistics is an essential tool (e.g., biostatistics, quality control). The elective courses allow the student to emphasize a particular area of statistical inference, culminating in an applied project report or a thesis on a topic in that area. No foreign language or written comprehensive examinations are required.

The student has considerable flexibility in selecting an area of specialty. Possible areas of specialty include, among others:

- Applied data analysis.
• Bayesian analysis.
• Biostatistics.
• Categorical data analysis.
• Data mining.
• Design of experiments.
• Industrial statistics.
• Six sigma methodology.
• Linear models.
• Multivariate analysis.
• Sampling and survey research.
• Smoothing methods.
• Statistical computing.
• Statistical process control.
• Time series analysis.

Admission Requirements: Applicants must satisfy the general requirements for admission to the Graduate College. Applicants should have completed the following courses (equivalents at ASU are given in parentheses):

2. Advanced calculus (MAT 371).
3. Linear algebra (MAT 342).
4. Computer programming (CSE 100).
5. Introductory applied statistics (QBA 221 or STP 420).

Applicants who lack any of these prerequisite courses must complete the prerequisites before being considered for admission. The submission of GRE scores is strongly encouraged, but not required. In addition applicants must submit three letters of academic recommendation and a brief statement of purpose to the director of the committee on statistics. Although most applicants earn the bachelor’s degree in a quantitative area (such as statistics, quantitative business analysis, mathematics, engineering or computer science), this is not required for admission to the program.

Contact:
Graduate College
http://graduate.asu.edu/statistics
statistics@asu.edu
PSA 744
4809652671

Journalism and Mass Communication, Walter Cronkite School of

Journalism and Mass Communication PHD CSJMCPHD
Walter Cronkite School of Journalism and Mass Communication
Official Degree Awarded: PHD Journalism and Mass Communication

Program Description: This program is designed to be a small, student-centered, scholarly, research-oriented Ph.D. in journalism and mass communication. It is based on the following priorities:

1. A journalism and mass communication focus that especially considers the postmodern mediascape.
2. One-on-one, faculty-student mentoring.
3. An interdisciplinary approach that requires course work outside of the Cronkite School.
4. Program flexibility.

The emphasis of this degree is the creation of scholarly, peer-reviewed, juried presentations in addition to a scholarly dissertation, which caps the student’s program of study. It is a degree based in journalism and mass communication philosophy, theory, a variety of scientific methodologies and critical thinking. The proposed program will prepare students for research-oriented careers in journalism and mass communication education and related fields.

Program Requirement: A minimum of 84 credit hours is required for this Ph.D. program. Students entering the program with a master’s degree in journalism or mass communication, or a related field, must complete 60 credit hours of course work. Students who are admitted to the program without a master’s degree will be required to complete an additional 24 credits of course work.

1. Core Courses, for a total of 18 credit hours.
2. Elective Courses, for a total of 18 credit hours.
3. Research, for a total of 12 credit hours.
4. Dissertation, for a total of 12 credit hours.
5. Previous master's degree or additional hours approved by the supervisory committee, for a total of 24 credit hours.
6. Total credit hours required is 84.

Admission Requirements: Applicants must have at least a bachelor’s degree in journalism or mass communication or a related field such as communication or media. Applicants must complete the Graduate College online application and will normally have achieved a minimum of a 3.00 GPA in their last 60 credit hours of course work in their first bachelor’s degree program.

Contact:
Walter Cronkite School of Journalism & Mass Comm
http://cronkite.asu.edu/grad/index.php
masscom@asu.edu
CRONK 302B
602/496-6612
Master of Mass Communication (MMC) CSMCOMMMMC
Walter Cronkite School of Journalism and Mass Communication

Official Degree Awarded: MMC Mass Communication

Program Description: The M.M.C. program offers basic journalism skills instruction, education in journalism values and instills 21st-century vision and perspective. Students gain practical hands-on experience in specialties including print, broadcast, strategic media and online journalism.

The cornerstones of the graduate program are the Cronkite school’s specialized experiences:

- Cronkite News Service print.
- Cronkite News Service broadcast.
- NewsWatch.
- New Media Innovation Lab.
- Projects covering the borderland with Mexico.
- Strategic media experience.
- The Knight Center for Digital Media Entrepreneurship.

Program Requirement: The master’s program is a full-time, three-semester-long, 36-credit-hour immersion program. Students with extensive professional experience may be offered the opportunity to pursue the 30-credit-hour, mid-career option.

Admission Requirements: Applicants must submit a Graduate College online application. Admission is granted for the fall semester only. The application deadline is Feb. 1. Applicants must meet all deadlines and application requirements to be considered. The Cronkite school’s graduate committee reviews complete and on time applications. Recommendations for admission are made to ASU’s Graduate College, where the final admission decisions are made.

ASU’s Graduate College requires that all those admitted have at least a 3.00 GPA (based on a 4.00 scale) in the last 60 credit hours or 90 quarter hours of undergraduate course work. The scores on the quantitative and verbal sections of the GRE of those admitted average about 1,213, with the verbal score being particularly important to the Cronkite school’s graduate committee. Test of English as a Foreign Language (TOEFL) scores must be at least 600 for the paper-based examination and 100, Internet-based. Applicants must submit three letters of recommendation, a personal statement of interest (350-500 words in length) and a resume.

Contact:
Walter Cronkite School of Journalism & Mass Comm
http://cronkite.asu.edu/grad/index.php
masscomm@asu.edu
Law, Sandra Day O'Connor College of

Juris Doctor (JD) LWJDJD
Sandra Day O'Connor College of Law

Official Degree Awarded: JD Juris Doctor of Law

Program Description: The Sandra Day O'Connor College of Law offers programs in traditional law studies that culminate in a J.D. Within the J.D. program, there are many areas of concentration, such as Indian law, science and technology, tax and philosophy. In addition, the college offers several concurrent degree programs for individuals who wish to earn additional degree distinctions along with the J.D.

The Sandra Day O'Connor College of Law offers a fully ABA-accredited J.D. program. The program is full-time and classes are offered during the day. The college enrolls about 170 students each fall.

Program Requirement: Students must successfully complete a total of 88 credit hours, including required first-year and upper-division courses, the graduation writing requirement, the seminar writing requirement and the professional skills requirement, in order to be eligible for graduation.

First-year students are required to take a specific set of classes, including contracts, torts, criminal law, civil procedure, constitutional law I, property, law and the regulatory state, dean's session and legal research and writing. After the first year, the only required courses are professional responsibility and criminal procedure or constitutional law II. Students may choose to participate in the various clinics, simulation courses or externships.

Admission Requirements: The Sandra Day O'Connor College of Law at Arizona State University enrolls only one first-year class per year, and it enters in the fall semester. The program is full-time, day-time only. Each year, far more applications are submitted to the College of Law than the college’s facilities and programs can accommodate. Thus, admission is competitive. The College of Law makes its admissions decisions based upon all information contained in the applicant’s file.

To be considered for admission to the J.D. program, an applicant must have taken the LSAT and have earned, or expect to earn by the time of enrollment in law school, a bachelor's degree from an accredited, four-year college or university. Further, a candidate must complete the application for admission and submit all mandatory attachments. Transcripts and letters of recommendation must be submitted through the Law School Data Assembly Service (LSDAS) and will be provided to the College.
of Law by LSAC with the applicant’s LSAT record.

The Sandra Day O’Connor College of Law at Arizona State University will provide full file review to 100 percent of the completed applications to the J.D. program. While the applicant’s undergraduate record and LSAT score are important predictors, no decision will be made on objective criteria alone. Among the other factors considered by the admissions committee are:

- The rigor of the undergraduate course of study.
- Graduate study.
- Demonstrated commitment to public service.
- Work experience.
- Leadership experience.
- Extracurricular or community activities.
- History of overcoming economic or other disadvantage.
- Personal experiences with discrimination.
- Overcoming disability.
- Geographic diversity.
- Diversity of experience and background.
- Maturity.
- Ability to communicate.
- Foreign language proficiency.
- Honors and awards.
- Service in the Armed Forces.
- Publications.
- Exceptional personal talents.
- Other factors.

**Early Admission**

To be considered timely for early admission, an applicant must take the LSAT no later than the September/October administration, and submit a completed application for admission postmarked or electronically submitted no later than Nov. 1. Any application postmarked or electronically submitted after Nov. 1, or remaining incomplete as of Dec. 10, even if marked for early admission, will be considered along with the regular admission applications.

The admissions committee will make every effort to provide a response on all completed early admission applications by the end of January. Please note that some applicants will not receive a final decision of admission or denial, but will instead receive notice that they are being held for review with the regular applicant pool.

**Regular Admission**

To be considered timely for regular admission, an applicant must take the LSAT no later than the February administration, and submit a completed application for
admission postmarked or electronically submitted no later than Feb. 1. Any
application postmarked or electronically submitted after Feb. 1, or remaining
incomplete as of March 10, is untimely and may be at a disadvantage in the review
process.

For an application to be considered complete, it must include the following:

1. A $50 application fee (credit card/check/money order).
2. A personal statement that does not exceed three double-spaced, typed pages.
3. A resume that does not exceed three typed pages.
4. Explanations to affirmative answers to any conduct questions.
5. Law School Admissions Test (LSAT) score(s) from Law Services.
6. A complete Law School Data Assembly Service (LSDAS) report with all
   transcripts and letters of recommendation. The LSDAS report must be from
   the current application year.

Applicants who have received an undergraduate or graduate degree from a foreign
institution should refer to the special instructions for foreign-educated applicants
section the college’s Web site. Applicants are urged to file their application as early
as possible after Sept. 15.

Contact:
Sandra Day O’Connor College of Law
http://www.law.asu.edu
law.admissions@asu.edu
LAW
480/965-1474

Law - Biotechnology & Genomics (LLM) LWGENOMLLM
Sandra Day O’Connor College of Law

Official Degree Awarded: LL.M. Biotechnology and Genomics

Program Description: The LL.M. in biotechnology and genomics program is offered
through the Sandra Day O’Connor College of Law’s Center for the Study of Law,
Science, and Technology, the nation’s oldest, largest and most comprehensive
research center focusing on the intersection of law and science. Through classroom
instruction and guided independent study, LL.M. candidates (those who have
received their J.D. or comparable terminal law degree) will examine the legal issues
surrounding genetic applications such as genetically modified organisms, forensic
evidence, gene testing, gene therapy, cloning, stem cells and behavioral genetics. The
issues relate to privacy, confidentiality, regulation, liability, international trade,
evidentiary standards, intellectual property, licensing and business planning.

LL.M. students explore and examine the law that enables and constrains the
development, control, and application of biotechnology and genomics. Relevant legal
fields include health law, particularly public health law, agricultural law and policy.
and intellectual property. Forensic science and ethical constraints upon the various contemplated uses are also important elements of the program. Because the legal, ethical and policy aspects of genomics and biotechnology are of global significance, this program will also be beneficial for non-U.S. lawyers.

Program Requirement: The program is designed to be completed in nine months on a full-time basis, but may also be pursued on a part-time basis. A degree candidate must complete 24 credit hours of course work to obtain the LL.M. in biotechnology and genomics. A candidate may elect to write a graduate thesis for either three or six credit hours, or can instead elect to not write a thesis and fulfill the equivalent credits with other course work. Two courses are required:

- Genetics and the Law and Biotechnology
- Science, Policy and Law

The remaining credit hours will generally be obtained from the list of elective courses. With faculty advisor approval, a candidate may satisfy up to six credit hours with courses offered by other ASU departments or by law courses that are not included on the approved elective list.

Admission Requirements: Criteria for admission include grades in law school and other academic programs, recommendations by professors and/or employers, employment and life experience and evidence of interest and potential in biotechnology and genomics. The admissions committee recommends and appreciates early applications. We do not anticipate matriculating more than 20 full-time students annually. Applications are currently accepted on a rolling basis, with preference given for fall start dates.

Applicants to the program must submit:

1. Proof of a law degree; either a J.D. from an ABA-accredited law school in the United States or a comparable law degree from a foreign law school approved by either the government or the relevant accrediting authority of the nation where the school is located.
2. An essay describing their interest in the program.
3. A writing sample.
4. Two letters of recommendation.
5. Completed LL.M. application.
6. Official transcripts of undergraduate and law degree studies.
7. Application fee.

International Applicants.

Applicants who have earned academic credit in countries other than the United States: The World Education Services (WES) must independently evaluate all academic documents issued in countries other than the United States. Please contact WES at their Web site (http://www.wes.org/) to obtain an application for an
evaluation. You must request a course-by-course evaluation and have an official copy from WES be sent directly to:

Sandra Day O’Connor College of Law  
Arizona State University  
Office of Admissions and Financial Aid  
1100 S. McAllister Ave.  
P.O. Box 877906  
Tempe, AZ 85287-7906

Contact:  
Sandra Day O’Connor College of Law  
http://www.law.asu.edu  
llm-mls.admissionsl@asu.edu  
LAW  
480/965-1474

Law - Legal Studies (MLS) LWLGSMLEGS  
Sandra Day O’Connor College of Law

Official Degree Awarded: MLS Legal Studies

Program Description: The M.L.S. program offers an interdisciplinary immersion in the law school’s curriculum to highly qualified non-lawyers who do not seek a degree that will enable them to practice law, but instead wish to achieve a basic familiarity with legal thought and to explore the relation of law to their ongoing fields of work or scholarship.

The program seeks M.L.S. candidates from a variety of backgrounds with a diversity of goals:

- Natural scientists and engineers who want to study the legal regulation of science or the protection of intellectual property.
- Social scientists who seek a foundation in law and legal process in order to design and conduct better informed empirical research on policy issues.
- Humanities scholars who desire a foundational understanding of law and legal culture to enrich their primary historical or philosophical or literary scholarship.
- Journalists who want to report on law-related events in a more informed and illuminating way.
- Entrepreneurs and managers who hope to better advance their companies in industries as diverse as banking, insurance, construction, development, agribusiness and electronics by better understanding the legal system in which they operate.
This program is intended for the professional who wishes to study law, but does not seek to become an attorney. Completed course work from the M.L.S. will not qualify as law school credit.

**Program Requirement:** The program consists of 30 credit hours of approved study. The degree can be completed in two semesters of full-time study or spread out over two or more years in part-time study. Each student is assigned a faculty advisor to help develop a curriculum that best meets the student's goals. M.L.S. students are required to choose at least two of the following basic first-year law courses:

- Contract.
- Constitutional Law.
- Criminal Law.
- Property.
- Torts.

Other courses can be chosen from legal process, legislation or jurisprudence in order to include a broad perspectives course in their curriculum. These core courses will provide 10 to 12 of the requisite 30 credit hours. The remainder of the credits are electives. Course selection will be flexible to accommodate the diversity of intellectual interests the program is intended to serve. Students will earn the remainder of their credits through whatever combination of elective law school courses—and in some instances courses offered elsewhere in the university—best complements and advances the student's goals.

**Admission Requirements:** To begin this graduate-level program, students must have earned an undergraduate degree from an regionally accredited four-year college or university in the United States or a comparable degree from a foreign institution. All applicants must submit official transcripts of their undergraduate and graduate degree studies, a personal statement, a resume, a writing sample and two letters of recommendation. The admissions committee recommends and appreciates early applications.

Criteria for admission include prior academic experience, recommendations by professors and/or employers, employment and life experience and evidence of potential for success. Graduate school entrance exams (e.g., LSAT, GRE, GMAT, etc) are not required, but applicants who have taken those exams are invited to report their scores.

One goal of the admissions committee is to admit a diverse student body that will contribute to a dynamic and interesting learning environment. Academic background and strength, though important, are not the only criteria evaluated in the application process. For this reason, a personal statement, written by the applicant, limited to 1250 words on double-spaced, typed pages, is a required part of the application. In this statement we seek information about your distinctive qualities, talents, successes, achievements, interests, life experiences and interest in
the program. Your writing sample should be a professional or academic sample, written solely by the applicant, that provides an indication of your writing ability.

**Application Process**

To apply for the M.L.S. program you must provide:

1. Proof of a four-year degree from either an accredited college or university in the United States or a comparable degree from a foreign institution approved by either the government or the relevant accrediting authority of the nation where the school is located.
2. A personal statement.
3. A resume.
4. A writing sample.
5. Two letters of recommendation.
6. A completed M.L.S. application and application fee.
7. Official transcripts of undergraduate and graduate degree studies.

Mail these items to the following address:

Sandra Day O'Connor College of Law
Arizona State University
Office of Admissions and Financial Aid
P.O. Box 877906
Tempe, AZ 85287-7906

**International Applicants**

Applicants who have earned academic credit in countries other than the United States: The World Education Services (WES) must independently evaluate all academic documents issued in countries other than the United States. Please contact WES at their website (http://www.wes.org/) to obtain an application for an evaluation. You must request a course-by-course evaluation and have an official copy from WES be sent directly to:

Graduate Admissions
Sandra Day O'Connor College of Law
Arizona State University
P.O. Box 877906
Tempe, AZ 85287-7906

Your application for admission to the Sandra Day O'Connor College of Law at Arizona State University will not be complete until this evaluation is received by the Sandra Day O'Connor College of Law.

International applicants must meet the requirements of the Graduate College as well.
as those of the Sandra Day O'Connor College of Law.

If English is not your native language, you must provide evidence of English proficiency as indicated by acceptable scores. Applicants should have a Test of English as a Foreign Language (TOEFL) score above 600 (paper-based test) or 250 (computer-based test). Exceptional candidates with relevant experience and background who have scores of at least 590 (paper-based) or 243 (computer-based) also will be considered.

Contact:
Sandra Day O'Connor College of Law
http://www.law.asu.edu/
llm-mls.admissionsl@asu.edu
LAW
480/965-1474

**Law, Science, and Technology Certificate** LWLAWSTCE

*Official Degree Awarded:* CERT Law, Science, & Technology (certificate)

*Program Description:* The law, science and technology certificate program is for students with science and technology interests and is limited to students pursuing a J.D. at the College of Law.

The program allows for specializations in the areas of intellectual property, health law, environmental law, genomics and biotechnology law and law and psychology.

*Program Requirement:* The law, science and technology certificate program requires substantive course work, a minimum GPA for that course work, a substantive paper, extracurricular activities and regular advising.

Specific requirements for completion of the law, science and technology certificate can be found on the College of Law Web site.

*Admission Requirements:* Students wishing to pursue the law, science and technology certificate must be enrolled in the J.D. program at the Sandra Day O'Connor College of Law and be in good standing.

Specific requirements for admission to the law, science and technology certificate program can be found on the College of Law Web site.

Contact:
Sandra Day O'Connor College of Law
http://www.law.asu.edu/
law.admissions@asu.edu
LAW
480/965-9042
Law - Tribal Policy, Law, and Government (LLM) LWTBLMLAWS
Sandra Day O'Connor College of Law

Official Degree Awarded: LL.M. Tribal Policy, Law and Government

Program Description: The LL.M. in tribal policy, law and government is designed for lawyers and law school graduates who desire to work on issues related to tribal law and federal Indian law at the professional and academic levels. The Indian Legal Program is nationally known and was established in 1988. The Sandra Day O'Connor College of Law is a leading institution in producing graduates specializing in Indian law.

The LL.M. program provides students with a detailed understanding of the nature of tribal government, law and policy development within the domestic federal structure. Candidates will benefit from the extensive resources committed to the Indian Legal Program, including a full-time director and staff and an Indian Law Clinic with its own full-time director and staff.

The core curricular offerings focus on domestic tribal law, federal Indian law, and American institutions of law and government. The program explores the expression of domestic law within contemporary administrative, governmental and judicial institutions.

ASU is located in the heart of the southwestern United States, home to roughly one-third of the native population in the United States and where many of the largest Indian nations in the country reside. It is the academic home for several nationally known scholars who do research on American Indian issues, and houses many unique resources for such scholarship, including the Labriola Collection at Hayden Library.

Program Requirement: The program is administered by the Indian Legal Program and consists of two different tracks intended to serve two distinct groups of students. Candidates will choose either the practicum track or the thesis track.

The LL.M. Practicum Track

The LL.M. practicum track is oriented toward students who seek practical experience in tribal law and federal Indian law. It provides intensive instruction to students who graduated from a law school that had few or no courses in Indian law and who now seek to practice in these areas at a professional level. This track requires a minimum of 24 credit hours of study. A thesis is not required.

Students will immerse themselves in the study of tribal law and federal Indian law and will apply the knowledge and experience they gain through the practical component of the degree program which may consist of state, tribal and federal court practice; tribal code drafting; and research projects for tribal courts and
governments. Graduates will be well equipped for professional positions that require knowledge and expertise in tribal law and federal Indian law. Students on the practicum track will have the option of pursuing the degree on a part-time basis.

**The LL.M. Thesis Track**

The LL.M. thesis track is oriented toward students who desire to undertake the academic study of tribal law and federal Indian law in preparation for careers as professors and scholars. This track is designed for candidates who have demonstrated analytic and research ability, and who desire to undertake extended study, research and scholarly writing. This track will require a minimum of 30 credit hours of study, including completion of a thesis of publishable quality.

Students will build a foundation in scholarly research and writing in tribal law and federal Indian law. While matriculating in the program, LL.M. students may have an opportunity to teach at the law school level. Students will be assigned to an Indian law professor who will mentor them in creating a thesis and submitting publishable articles. Graduates will have the necessary skills for entry-level positions in academia.

*Admission Requirements:* Criteria for admission include grades in law school and other academic programs, written recommendations by professors and/or employers, relevant professional and practical experience and evidence of interest and potential in Indian law.

Students admitted to the LL.M. program in tribal policy, law and government must possess either a J.D. from a law school in the United States accredited by the American Bar Association or a comparable terminal law degree from a law school accredited by the government or the highest accrediting authority of the nation in which the school is located. The program is oriented, however, toward students who have a basic understanding of American government and have taken the relevant foundational course in federal constitutional law. For this reason, it is assumed that most applicants will have earned their degrees from law schools within the United States.

The LL.M. program is designed to accommodate seven students per year. Interest in this program appears to be large. Because the committee utilizes a “rolling admissions” process and space is limited, your chances of acceptance are higher the earlier you apply.

Applicants to the program must submit:

1. Proof of a law degree; either a J.D. from an ABA-accredited law school in the United States or a comparable law degree from a foreign law school approved by either the government or the relevant accrediting authority of the nation in which the school is located.
2. An essay describing their interest in the program.
3. A writing sample.
4. Two letters of recommendation.
5. A completed LL.M. application and application fee.
6. Official transcripts of undergraduate and law degree studies.

**International Applicants**

Applicants who have earned academic credit in countries other than the United States: The World Education Services (WES) must independently evaluate all academic documents issued in countries other than the United States. Please contact WES at their website (http://www.wes.org/) to obtain an application for an evaluation. You must request a course-by-course evaluation and have an official copy from WES be sent directly to:

Graduate Admissions  
Sandra Day O'Connor College of Law  
Arizona State University  
P.O. Box 877906  
Tempe AZ 85287-7906

Your application for admission to the Sandra Day O'Connor College of Law at Arizona State University will not be complete until this evaluation is received by the college.

International applicants must meet the requirements of the Graduate College as well as those of the Sandra Day O'Connor College of Law. If English is not your native language, you must provide evidence of English proficiency as indicated by acceptable scores. Applicants should have a Test of English as a Foreign Language (TOEFL) score above 600 (paper-based test) or 250 (computer-based test). Exceptional candidates with relevant experience and background who have scores of at least 590 (paper-based) or 243 (computer-based) also will be considered.

**Contact:**  
Sandra Day O'Connor College of Law  
http://www.law.asu.edu/  
llm-mls.admissions@asu.edu  
LAW  
480/965-1474

**Letters and Sciences, School of**

Behavioral Health DBH LSBEVHEDBH  
School of Letters and Sciences
Official Degree Awarded: DBH Behavioral Health

Program Description: The D.B.H. is a new degree to prepare behavioral clinicians to work within an interdisciplinary primary care team. The D.B.H. is an upgrade for master’s-level clinicians who are interested in working at a doctoral level in primary care. Primary care patients can have untreated behavioral conditions that can result in poor clinical outcomes and increased medical costs related to overuse of medical services. Behavioral interventions in primary care have demonstrated improved clinical outcomes and decreased medical costs. A key recommendation in healthcare reform is improved integration of medical and behavioral care. Traditional doctoral training does not prepare clinicians with the interdisciplinary knowledge required in integrated care. Programs continue to graduate clinicians into private practice settings not aligned with medical providers. The D.B.H. program reflects a paradigm shift to a curriculum based on:

1. Evidence-based behavioral interventions for primary care.
2. Medical literacy in order to understand and consult with the medical team.
3. Healthcare economics and policy in order to respond to emerging healthcare reform.
4. Business skills such as writing a business plan, marketing and return on investment.

The D.B.H. curriculum is unique in that it:

1. Is a cohort-based, accelerated program that enables students already holding a clinical master’s degree to complete the D.B.H. in 18 months.
2. Replaces the dissertation with a culminating clinically focused project.
3. Incorporates practicum experience in primary care settings.
4. Integrates clinical and professional affiliated faculty as well as faculty associates who are experts and are directly employed in healthcare environments in the area that they are teaching.

The D.B.H. program is also unique in offering the program in a hybrid-online format. Approximately one-third of the curriculum in each course is delivered in a traditional classroom setting, and two-thirds is completed in a Web-based format. Several different modalities are used to enhance the student’s learning, including multimedia presentations, asynchronous discussion boards and live chats. Travel to campus is required for up to a week for orientation at the beginning of your program, and after orientation only two to three times per semester (two- to three-day sessions), depending on the courses being taught; students will encounter concentrated, interactive case-based seminar experiences. International students are notified that ASU can not provide paperwork for student visas per federal law if they are admitted to the program.

Focused clinical practicum experiences are arranged with preceptors and administrators in the student’s local healthcare setting. Rural health and experiences with disadvantaged and multicultural populations are encouraged.
Graduates of the D.B.H. program will contribute to a societal transformation by leading to improved access to behavioral care, integration of a behavioral provider on the medical team, improved patient outcome and satisfaction, and decreased cost of care.

*Program Requirement:* The 84 credit hours (students may utilize 30 credit hours from a previously awarded master's degree if applicable) required for this doctoral program are:

- Core course requirements, for a total of 33 credit hours
- Elective courses, for a total of nine credit hours
- Practicum and culminating experience, for a total of 12 credit hours
- Previously awarded master's degree or other courses approved by the supervisory committee, for a total of 30 credit hours

*Admission Requirements:* All applicants must submit a Graduate College application and possess a bachelor’s degree from a regionally accredited postsecondary institution in the United States or an equivalent degree from a recognized international postsecondary institution. Normally, applicants will have a minimum of a 3.00 GPA calculated on the last 60 credit hours of their first bachelor’s degree.

All applicants from countries whose native language is not English will be expected to meet university and degree program English proficiency requirements.

*Contact:*
Dean, School of Letters & Sciences
http://sls.asu.edu/
dbh@asu.edu
3404 W Cheryl Dr, Suite A-205, Phoenix
602/942-2247

**Liberal Arts and Sciences, College of**

**African Studies (Grad Certificate) LAAFRICACE**
College of Liberal Arts and Sciences

*Official Degree Awarded:* CERT African Studies (certificate)

*Program Description:* The graduate certificate in African and African diaspora studies is an interdisciplinary program with four areas of emphasis:

1. African studies.
3. Comparative studies.
These areas of emphases provide students with access to an extensive range of information and systematic knowledge committed to the new model of African and African diaspora studies that focuses on the intersections of race, culture, and gender with interdisciplinary perspectives.

The required course, AFR 500 RM: Theory and Methods, offers students an overview of the focus and explicates relevant methodologies and theories. This required course, along with the courses within the areas of emphasis and the capstone course, complete the certificate. As this certificate program offers students an international dimension to the study of peoples and cultures of African descent, students will invigorate their knowledge about global issues and further expand their research pursuits. This certificate program characterizes the faculty's intellectual and research strengths and the curriculum's interdisciplinary strategies and research approaches that highlight the continuities and disjuncture of history and experiences throughout Africa and the diaspora.

**Program Requirement:** The certificate program requires 18 hours of course work:

- AFR 500 RM: Theory and Methods (3)
- Emphasis courses* (9)
- Capstone project (3)
- Elective (3)

* Students select one of the four emphases.

**Admission Requirements:** Applicants must submit the Graduate College online application. Admission to the graduate certificate in African and African diaspora studies program is open to any student who has completed a bachelor’s degree at an accredited U.S. institution or equivalent. Students who are regularly admitted to a graduate degree program may pursue the certificate in tandem with their degree program. Students who are not regularly admitted to a graduate degree program may still pursue the certificate as nondegree graduate students.

**Contact:**
School of Social Transformation
http://aaas.clas.asu.edu/
aframstu@asu.edu
WILSN 140
480/965-4399

**American Media and Popular Culture (MAS) LAAMPCMAS**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MAS American Media and Popular Culture

**Program Description:** The M.A.S. in American media and popular culture will offer working professionals and international students in the United States, particularly secondary education teachers interested in film and media studies and media
literacy education, an opportunity to earn a graduate-level degree in the aesthetics, history and culture of American media (film, television and the Internet). Arizona high schools are slowly but continually expanding their offerings in film, television and media literacy, and teachers need to continue their education and earn graduate-level degrees to advance in their profession. We also believe the program will attract non-traditional students interested in advancing their knowledge of moving image culture. The program will be offered through distance learning, thereby providing students from around the state and globe with a visually interactive yet flexible learning environment. As such, we believe it will be of particular interest to international students.

Since this is a distance learning program, international students will not be issued any non-immigrant documents since they will not be eligible to obtain a student visa.

Program Requirement: All students will complete a minimum of 30 credit hours:

- Required courses: 12 credit hours
- Elective courses: 18 credit hours

Admission Requirements: All applicants must complete the Graduate College online application and meet all Graduate College admission criteria. Students from a country whose native language is other than English will be required to meet the Graduate College English proficiency requirement.

Contact:
Dean, College of Liberal Arts and Sciences
http://www.film.asu.edu/gradpopculture
filminfo@asu.edu
LL 641
480/965-6747

Anthropology (Museum Studies) (MA) LAMUSEUMMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Anthropology (Museum Studies)

Program Description: The School of Human Evolution and Social Change offers an M.A. in anthropology with a concentration in museum studies. Museum anthropology encompasses theoretically oriented analyses of museums as cultural institutions (including the activities of staff members, visitors, represented peoples and all implicated others) as well as applied aspects of working in museums and related agencies.

Drawing on all subdisciplines of anthropology, special emphasis is placed on
connecting material culture and ideation in a variety of institutional and field settings. Museum anthropology students apply museum philosophy, principles, practices and current critiques to explore the many dimensions of curatorship, including:

- Administration.
- Collections management.
- Exhibition work.
- Educational programming.
- Research.

**Program Requirement:** A minimum of 30 credit hours of graduate work approved by a student’s supervisory committee and the Graduate College is required. The program offers a thesis and nonthesis option.

**Admission Requirements:** In addition to the general requirements for admission to the Graduate College, the School of Human Evolution and Social Change requires applicants to provide a statement of their interests and professional goals and three letters of recommendation. Applicants who received their B.A. during the past ten years must also submit scores on the GRE.

Undergraduate course work in anthropology is not a prerequisite for admission, but is generally advisable. Students may be admitted without such a background and may be required to acquire knowledge of general anthropology in a manner to be specified at the time of admission.

**Contact:**
School of Human Evolution & Social Change
http://shesc.asu.edu/graduate_studies
shescgrad@asu.edu
SHESC 233
480/965-6215

**Anthropology (PhD) LAANTHRPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Anthropology

**Program Description:** The School of Human Evolution and Social Change is an excellent choice for students wanting to pursue a Ph.D. in the traditional fields of anthropology:

- Archaeology.
- Physical anthropology.
- Sociocultural anthropology.

It is also an ideal environment for students who want to combine these approaches
and other disciplines to explore specific issues or research questions. Our flexible graduate curricula are designed to encourage students to design innovative programs of study to pursue their interests, while receiving broad training in key areas. The anthropology faculty actively engage with faculty in other disciplines, including:

- Environmental economics.
- Formal modeling.
- Science.
- Sociology.
- Technology.
- Urban planning.

The school offers many exciting hands-on learning opportunities through laboratories and field-based research that focus on:

- Appreciating the cultures of such diverse areas as Southeast Asia, Latin America, and the Mediterranean Basin.
- Disease and medicine.
- Finding ancient human fossils.
- Human-environmental interactions.
- Topics that explore humans of the past and present.
- Unearthing buried cities, villages, and hunter-gatherer camps.
- Understanding the development of language.

Students without a master's degree apply to phase I of the program, where they will receive a master's degree-in-passing. During this phase, students develop a research skills portfolio and present one of their papers in a school-wide research symposium. A formal evaluation is then completed to determine the student's readiness to enter phase II of the program.

Students with an M.A. in anthropology or related field begin in phase II of the Ph.D. program, where they receive training to become expert scholars able to contribute not only to their chosen field, but to finding solutions to humankind's greatest challenges.

Program Requirement: This degree program requires 84 credit hours, a dissertation and a written comprehensive examination. The doctoral program is divided into two phases.

The first consists of 30 credit hours of course work and readings, culminating in a research portfolio, which normally consists of two research papers. The faculty may require additional hours of course work or other preparation for entering students who are unfamiliar with the concepts of general anthropology at a level equivalent to that of the ASU undergraduate anthropology core. Mastery of the phase I course material is demonstrated by successful completion of a sequence of core courses.
Admission to phase II of the doctoral program is granted to students on the basis of performance in phase I, the quality of the M.A. research portfolio, prior course work, faculty recommendations and other relevant information.

The second phase consists of 54 credit hours of course work. Thirty of these hours consist of readings in anthropology and related fields and directed research designed to prepare the student for the dissertation project. Proficiency in one foreign language may be required by the supervisory committee. The student is advanced to candidacy when both of the following have been met:

1. Passing a written comprehensive examination.
2. Passing the oral defense of the dissertation proposal.

The student then completes 12 hours of research and 12 hours of dissertation and writes and defends the dissertation.

**Admission Requirements:** In addition to the general requirements for admission to the Graduate College, the School of Human Evolution and Social Change requires applicants to provide:

1. A statement of their interests and professional goals.
2. Three letters of recommendation.
3. Applicants who received their B.A. during the past ten years must also submit scores on the GRE.

Undergraduate course work in anthropology is not a prerequisite for admission, but is generally advisable. Students may be admitted without such a background and may be required to acquire knowledge of general anthropology in a manner to be specified at the time of admission.

**Contact:**
School of Human Evolution & Social Change  
http://shesc.asu.edu/graduate_studies  
shescgrad@asu.edu  
SHESC 233  
480/965-6215

**Anthropology (Urbanism) Phd LAURBPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Anthropology (Urbanism)

(This program is no longer acception applications.)

**Program Description:** The past two decades have witnessed a surge of scholarship and professional interest in urbanism. However, there is a tendency for disciplines concerned with urbanism to be disconnected from one another. While powerful
analytical and technical knowledge has been created within each field, the resulting specialized approaches to the study of urbanism present an impediment to understanding the nature, function and shaping of the human habitat. The concentration in urbanism will be a mechanism for organizing varied perspectives on urbanism into a collective body of scholarship. The study of anthropology will be enriched by grounding it in a comprehensive understanding of the characteristics of urban context and the dynamic forces that shape them.

The concentration in urbanism will leverage the varied interests in urbanism and help emerging scholars as they attempt to compare, contrast and take stock of urbanism. Working with faculty from across a range of departments and programs at ASU, doctoral students will be able to capture the creative tensions that scholarship on urbanism has inspired in order to stimulate a provocative, constructive kind of inquiry. Academic units students might engage with to fulfill the requirements of the urbanism concentration include:

- Herberger Institute for Design and the Arts.
- School of Community Resources and Development.
- School of Geographical Sciences and Urban Planning.
- School of Government, Politics and Global Studies.
- School of Historical, Philosophical and Religious Studies.
- School of Human Evolution and Social Change.
- School of Sustainability.

Students without a master's degree apply to phase I of the program, where they will receive a master's-in-passing. During this phase, students develop a research skills portfolio and present one of their papers in a school-wide research symposium. A formal evaluation is then completed to determine the student's readiness to enter phase II of the program.

Students with a master's degree in anthropology or a related field begin in phase II of the doctoral program, where they receive training to become expert scholars able to contribute not only to their chosen field, but to finding solutions to humankind's greatest challenges.

*Program Requirement:* This degree program requires 84 credit hours, a dissertation and a written comprehensive examination. The doctoral program is divided into two phases.

The first phase consists of 30 credit hours of course work and readings, culminating in a research portfolio, which normally consists of two research papers. The faculty may require additional hours of course work or other preparation for entering students who are unfamiliar with the concepts of general anthropology at a level equivalent to that of the ASU undergraduate anthropology core. Mastery of the phase I course material is demonstrated by successful completion of a sequence of core courses. Admission to phase II of the doctoral program is granted to students
on the basis of performance in phase I, the quality of the master’s research portfolio, prior course work, faculty recommendations and other relevant information.

The second phase consists of 54 credit hours of course work. Thirty of these hours consist of readings in anthropology and related fields and directed research designed to prepare the student for the dissertation project. Proficiency in one foreign language may be required by the supervisory committee. The student is advanced to candidacy when both of the following have been met:

1. Passing a written comprehensive examination.
2. Passing the oral defense of the dissertation proposal.

The student then completes 12 hours of research and 12 hours of dissertation and writes and defends the dissertation.

For the concentration in urbanism, 15 credit hours will be selected from an approved list of applicable courses related to urbanism. These courses will include the core urbanism course, GCU 516, as well as one course from each of the four urbanism clusters. These clusters are:

1. Natural environment.
2. Built form.
3. Institutions and governance.
4. Culture and society.

Admission Requirements: Applicants must apply to the Graduate College for admission to the urbanism concentration under the Doctor of Philosophy in anthropology and meet both Graduate College criteria and doctoral program criteria for admission. In addition to the general requirements for admission to the Graduate College, the School of Human Evolution and Social Change requires applicants to provide:

1. A statement of their interests and professional goals.
2. Three letters of recommendation.
3. Applicants who received their bachelor’s during the past ten years must also submit scores on the GRE.

Undergraduate course work in anthropology is not a prerequisite for admission, but is generally advisable. Students may be admitted without such a background and may be required to acquire knowledge of general anthropology in a manner to be specified at the time of admission.

Contact:
School of Human Evolution & Social Change
http://shesc.asu.edu/node/214
shescgrad@asu.edu
SHESC 233
480/965-6215
Applied Ethics (Ethics and Emerging Technologies) MA LAAEPEETMA

College of Liberal Arts and Sciences & New College of Interdisciplinary Arts and Sciences

Official Degree Awarded: MA Applied Ethics and the Professions (Ethics and Emerging Technologies)

Program Description: The purpose of this program is to examine ethical challenges posed by emerging technologies, including nanotechnology, neurotechnology, biotechnology, robotics and advanced information and communication technology. Not only are these technologies being developed at an unprecedented pace, they also share several unique characteristics, including system complexity, social embeddedness and the potential to converge with one another. Emerging technologies will not only change how humans live and work, but have the potential to alter the very nature of human existence. Questions considered by courses in the program include:

- Promise and perils of emerging technologies.
- Emerging technologies and public policy.
- Ethical responsibilities of professionals engaged in development of emerging technologies.
- Whether traditional ethical concepts and processes can and should be applied to emerging technologies.

Program Requirement: All students are required to complete 30 credit hours of graduate course work distributed as follows:

- Required core courses (6).
- Required concentration course (3).
- Elective concentration courses (15).
- Required capstone courses (6).

Admission Requirements: All applicants must submit the Graduate College online application and meet all Graduate College admission criteria, and submit the following:

1. GRE, LSAT or MCAT scores.
2. Official transcripts from all postsecondary institutions attended.
3. Statement of interest in applied ethics and career goals.
4. Three letters of recommendation.

Contact:
Dean, College of Liberal Arts and Sciences
DISCVRY 213
KellyOBrien@asu.edu
480/727-1548
**Applied Ethics (Executive Concentration - Emerging Technologies) MA LAAEPECMA**

**College of Liberal Arts and Sciences**

**Official Degree Awarded:** MA Applied Ethics & the Professions (Executive Concentration in Applied Ethics & Emerging Technologies)

**Program Description:** The purpose of this online program is to examine ethical and practical challenges in the management of high risk technologies, including the following: industrial ecology and designs for sustainability, nanotechnology, neurotechnology, biotechnology, robotics, genetics and advanced information and communication technology. Not only are these technologies being developed at an unprecedented pace, they also share several unique characteristics, including system complexity, social embeddedness and the potential to converge with one another. The management of emerging technologies will not only change how humans live and work, but it has the potential to alter the very nature of human existence. Questions considered by courses in the program include:

- Management of both the promise and the perils of emerging technologies.
- Emerging technologies and public policy.
- Ethical responsibilities of professionals engaged in development of emerging technologies.
- Whether traditional or new management concepts and processes are applicable to emerging technologies.

**Program Requirement:** All students are required to complete 30 credit hours of graduate course work distributed as follows:

3. Required core courses (6).
4. Required concentration course (3).
5. Elective concentration courses (15).
6. Required capstone courses (6).

**Admission Requirements:** All applicants must submit the Graduate College online application and meet all Graduate College admission criteria, and submit the following:

5. GRE, LSAT or MCAT scores.
6. Official transcripts from all postsecondary institutions attended.
7. Statement of interest in applied ethics and career goals.
8. Three letters of recommendation.

**Contact:**
Dean, College of Liberal Arts and Sciences
DISCVRY 213
KellyOBrien@asu.edu
480/727-7691
Applied Ethics (Ldrshp, Mgmt, and Ethics) MA LAAEPLMEMA
College of Liberal Arts and Sciences & New College of Interdisciplinary Arts and Sciences

Official Degree Awarded: MA Applied Ethics and the Professions (Leadership, Management, and Ethics)

Program Description: Students pursuing the M.A. in applied ethics and the professions concentration, leadership, management and ethics, examine a variety of considerations facing managers and leaders in public, private and nonprofit organizations, and consider the question of how ethical judgments might be made in these settings.

Topics covered include, but are not limited to, the following issues:

- Is the manager or leader seeking moral objectives or moral ends, the right policies or outcomes?
- Is the manager or leader doing the right things for the right reasons and with the proper attention to matters of character and integrity?
- What is the relationship between managers or leaders and followers, and how, if at all, does the act of leadership itself appreciably alter the values of the group in a positive way?
- How does management or leadership contribute to the organization's overall sense of social responsibility?

Completion of this degree concentration prepares the student to act more ethically and responsibly as an individual in their organization and in society, as well as to help those groups develop more ethical cultures.

Program Requirement: All students are required to complete 30 credit hours of graduate course work distributed as follows:

1. Required core courses (6).
2. Required concentration course (3).
3. Elective concentration courses (15).
4. Required capstone courses (6).

Admission Requirements: All applicants must submit the Graduate College online application and meet all Graduate College admission criteria, and submit the following:

1. GRE, LSAT or MCAT scores.
2. Official transcripts from all postsecondary institutions attended.
3. Statement of interest in applied ethics, and career goals.
4. Three letters of recommendation.

Contact:
http://spa.asu.edu/
Applied Ethics (Medical Ethics) MA LAAEPMEMA
College of Liberal Arts and Sciences & New College of Interdisciplinary Arts and Sciences

Official Degree Awarded: MA Applied Ethics and the Professions (Medical Ethics)

Program Description: Medicine is infused with moral values, and is deeply embedded in a variety of social and cultural contexts which significantly determine the effectiveness of medical care in achieving healthy outcomes for patients and populations. The objective of the biomedical ethics concentration is to integrate academic and clinical dimensions of moral issues in medical practice and biomedical research. Students from a broad range of backgrounds will be exposed to the internal and external logics of medicine and healthcare, and gain substantive understanding of ethical, cultural and societal issues in a variety of domains. Through course work and internships, students will deliberate individually and collectively about a wide range of issues and problems in contemporary medicine and the history of medicine, develop advanced critical normative reasoning and judgment capacities, and cultivate effective communication skills for academic, clinical and policy contexts.

Program Requirement: All students are required to complete 30 credit hours of graduate course work distributed as follows:

- Required core courses (6).
- Required concentration course (3).
- Elective concentration courses (15).
- Required capstone courses (6).

Admission Requirements: All applicants must submit the Graduate College online application and meet all Graduate College admission criteria, and submit the following:

1. GRE, LSAT or MCAT scores.
2. Official transcripts from all postsecondary institutions attended.
3. Statement of interest in applied ethics and career goals.
4. Three letters of recommendation.

Contact:
School of Life Sciences
DISCVRY 213
480/727-8857
Applied Ethics (Sustainability and Environmental Ethics) MA LAAEPSEEMA
College of Liberal Arts and Sciences & New College of Interdisciplinary Arts and Sciences

Official Degree Awarded: MA Applied Ethics and the Professions (Sustainability and Environmental Ethics)

Program Description: The sustainability and environmental ethics concentration of the applied ethics and the professions degree focuses on the ethical issues arising from the multiple challenges involved in balancing economic, technological, environmental, social and cultural development in a world increasingly affected by the activities of human beings. It provides the student with a general background in ethics and ethical systems with an emphasis on environmental and sustainability ethics, as well as exposing students to new challenges posed by rapidly evolving technological systems in the context of what scientists are increasingly calling the Anthropocene, the age of humans.

Program Requirement: All students are required to complete 30 credit hours of graduate course work distributed as follows:

- Required core courses (6).
- Required concentration course (3).
- Elective concentration courses (15).
- Required capstone courses (6).

Admission Requirements: All applicants must submit the Graduate College online application and meet all Graduate College admission criteria, and submit the following:

1. GRE, LSAT or MCAT scores.
2. Official transcripts from all postsecondary institutions attended.
3. Statement of interest in applied ethics and career goals.
4. Three letters of recommendation.

Contact:
School of Life Sciences
DISCVRY 213
480/727-8594

Applied Mathematics (PHD) LAAPMPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Applied Mathematics

Program Description: The Ph.D. includes rigorous training in fundamental applied mathematics and its application to real world problems in fields such as biology, physics, geology and various engineering disciplines. All students will participate in individual and collaborative research.
**Program Requirement:** Ph.D. students must complete 84 credit hours of course work including:

1. Five core courses.
2. Three credit hours of research project (700).
3. 3 credit hours of seminar (591).
4. Twelve credit hours of dissertation (799).

Students must pass a written comprehensive examination and an oral comprehensive examination. Each student must write a dissertation and defend it orally in front of five dissertation committee members. See the department Web site for examination information.

**Admission Requirements:** Applicants must submit the Graduate College online application. Minimum background for consideration of admission to the Ph.D. program in applied mathematics includes:

1. A bachelor's degree in mathematics, applied mathematics, economics, engineering or a natural science from a regionally accredited university with at least a 3.00 GPA (on a four-point scale).
2. Students must be competitive in an applicant pool as evidenced by course work in linear algebra (equivalent to ASU course MAT 342) and advanced calculus (equivalent to ASU course MAT 371).
3. Letters of recommendation.
4. A statement of educational and career goals.
5. Taking the GRE is not required, but it is highly recommended.
6. Scientific programming skills are also desirable.

**Contact:**
School of Mathematical and Statistical Sciences
http://math.asu.edu/graduate/index.html
grad@math.la.asu.edu
PSA 216
480/965-3951

**Applied Mathematics for the Life & Social Sciences (PhD) LAAMLPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Applied Mathematics for the Life & Social Sciences

**Program Description:** The applied mathematics for the life and social sciences doctoral degree focuses on the training of researchers working on scientific questions at the interface of the mathematical, life and social sciences. Graduates of the program will be making innovative and far reaching scientific contributions that rely on the cutting-edge computational mathematical and modeling approaches. This degree focuses on producing quantitative scientists and applied mathematicians conducting high-level interdisciplinary and crossdisciplinary research. The program’s faculty includes mathematicians, statisticians, theoretical...
biologists and social scientists from five different schools at Arizona State University.

There is a high demand for such an applied doctoral program from students interested in meeting the challenges faced by communities in the 21st century—and by research and planning programs at institutions whose mission is to address global challenges. Arizona’s and the nation’s health, environmental and natural resource challenges are urgently in need of a large pool of researchers with these interdisciplinary skills.

Applied mathematics for the life and social sciences (AMLSS) is a challenging field because it requires balancing various ways of thinking (computational, mathematical, statistical, sociological and scientific) and combining them through the production of coherent applications to life and social sciences. Students with strong but possibly highly heterogeneous scientific and cultural backgrounds will find a natural home in this field.

The specific skills that successful students should master in an ideal world would result in a large set whose implementation would be daunting. It is unlikely that all these skills could be taught within a reasonable time frame to a single student at the university separately. Hence, the focus of this degree is on finding ways for students to learn a way of thinking, that is, an appropriate philosophy of learning that will potentially help them (as a lifelong project) to become first-rate scientists. The curriculum includes dynamic and statistical approaches as critical and unifying components.

In AMLSS, the subject of the studies are people and subsequently relevant solutions of each research question which has a natural time scale pertaining to the particular question and level of social applicability. The fundamental challenge associated with the development of AMLSS curricula comes from the fact that it must provide a bridge connecting the stream of research that is being carried out at particular temporal and spatial scales across scales and levels of social organization. The program builds upon foundations already established in mathematical epidemiology, population dynamics, ecology, genomics, bioinformatics, mathematical analysis, nonlinear dynamic, computational sciences and the social science fields by offering courses that enhances interdisciplinary exchanges and collaboration among the faculty and students interested in addressing questions of social relevance.

In short, AMLSS is a new and exciting frontier at the intersection of the environmental, health, life, social, mathematical, physical and computational sciences. It deals with challenges that are inherent to complex adaptive systems, particularly, those that involve human interactions. The graduate experience stresses exposure to interdisciplinary learning, the interweaving of theory, applications, analytical approaches and cross-disciplinary and international collaboration.
Program Requirement: The program requires a total of 84 credit hours. Up to 30 credit hours can be counted from a previously awarded master's degree. After a master's degree, the students must complete a minimum of 30 credit hours, 12 hours of research, plus 12 hours of dissertation research, for a total of 54 hours. The core competences shall consist of math biology, stochastic modeling, deterministic modeling or computational methods, statistics and probability and core math skills.

All students are required to complete:

- AML 610 Topics in Applied Mathematics for the Life and Social Sciences (3)
- AML 611 Research Design and Proposal Writing (3) or approved equivalent
- AML 612 Applied Mathematics for the Life and Social Sciences Modeling Seminar (3) or approved equivalent
- AML 613 Probability and Stochastic Modeling for the Life and Social Sciences (3) or approved equivalent
- A course in Theory of Statistics or advanced Biostatistics (3)
- Applied Mathematical Analysis or Mathematical Methods (3) (This includes topics in advanced calculus, complex variables, advanced linear algebra and ODEs and PDEs.)

Remaining electives are selected from an approved list. Students must also demonstrate competency in a computer programming or modeling language. This can be done either by course work or practical applications or both. Due to the interdisciplinary nature of the program, students are encouraged to propose additional courses from any ASU unit as possible electives to the executive committee.

The degree policies and procedures are designed to promote degree completion in three years for those entering with a master's degree, and no more than five years for those entering directly from the bachelor's degree. These timelines are to be considered goals contingent on the individual circumstances and educational aspirations of the student. There are three different timeline tracks: post-bachelor's full-time, post-master's full-time and post-master's half-time. Students are required to follow the timelines as closely as possible. The half-time track is only available to those who have a master's degree in an area that provides basic background in a relevant subject area (e.g., applied mathematics, biology, sociology), and students must have the approval of both their major professor and the executive committee to be on the half-time track.

Within the first year, and ideally in the first semester, the student selects a temporary major professor who is an affiliate of the AMLSS program. The major professor is affirmed no later than the end of the third semester.
When a student selects a supervisory committee, there must be three or more members, and the committee must be approved by the executive committee and the ASU Graduate College.

There are three tracks a student can concentrate in:

- Life sciences—focus on understanding the tools for representing the structure and operation of complex biological and ecological processes.
- Social sciences—focus on understanding the tools for representing the structure and operation of complex social systems and processes.
- Applied mathematics—more in-depth focus on the tools themselves as applied to the life and social sciences, i.e., on dynamical systems, computational and numerical methods, simulation and mathematical analysis.

The choice should be reflected in the choice of classes and the research topic chosen. Appropriate balance is by oversight and subject to approval by the graduate committee. A minimum competency in biology and social sciences is expected. To demonstrate this at least four of the electives will consist of two graduate courses in the areas of life sciences—evolutionary biology, molecular biology, genetics, physiology, etc., and two in the social—sociology, geography, demography, anthropology, etc., (for post-master's students these credits can be fulfilled with courses taken prior to entry into the program, subject to approval).

- In the first semester, the student prepares a program of study that addresses all the course requirements, to be approved by their temporary major professor. This program of study is revised if necessary, and then approved by the full formal supervisory committee by the time the student completes 27 hours in their program or no later than the end of the second year whichever comes first.
- Based on their track timeline, the student prepares for the doctoral comprehensive exam and a written doctoral prospectus that must be defended in an oral exam. At the completion of all requirements, including any computer language requirements, the student is advanced to candidacy.
- Students write a research-based dissertation, which must be approved by their committee. The dissertation must be presented in an oral public defense. Because of the program’s emphasis on use-inspired research, the dissertation should include a perspective or component that addresses the relevance of the research to society.
- Students must maintain a 3.20 average GPA in their courses and complete degree requirements per the program’s satisfactory progress policy.
- No more than six hours of 400-level courses may be counted toward the degree.

_Admission Requirements_: Entry-level competencies: Prior to admission, students should have completed, at a 300 or 400 level a minimum of the following:
1. Fifteen hours of mathematics and/or statistics.
2. A total of nine hours of life sciences and social sciences course work at the senior or college graduate level.
3. No fewer than three hours each of life sciences and social sciences course work. Minimum GPA for consideration for admission is a 3.20, on a 4.00 scale, for the last two years of study leading to the bachelor’s degree.

Students must meet the admissions criteria of the Graduate College.

Admission decisions will be competitive, based on evidence of GRE scores, undergraduate and graduate GPA, letters of recommendation, prior relevant experience and statement of purpose.

Applicants submit:

1. An official ASU graduate application.
2. Official GRE scores.
3. Transcripts of all undergraduate and graduate course work.
4. A statement of purpose outlining career and educational goals,
5. Three letters of academic recommendation.

A master’s degree in the social sciences (e.g., anthropology, sociology, gender studies, geography), life sciences or related fields (e.g., biology, genomics, ecology), applied mathematics, mathematics or statistics is preferred. A bachelor’s degree in a relevant field from a regionally accredited university is required. Students with master’s degrees or course work in appropriate fields will usually be favored over those with only bachelor’s level qualifications. Given the interdisciplinary goals of the program, a diverse pool of students is desirable. Thus, prior training in any one particular field (e.g., applied math or statistics) will not be considered a necessarily better preparation and selection of applicants will also seek to maintain some diversity based on prior disciplinary training and experiences. However, given the quantitative nature of the degree, fluency in calculus and statistics as well as competency in a computer programming or modeling language will be required.

Contact:
School of Human Evolution & Social Change
http://shesc.asu.edu/graduate_studies
shescgrad@asu.edu
SHESC 233
480/965-6215

Asian Languages/Civilizations: Chinese (MA) LACHINAMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Asian Languages and Civilizations (Chinese)

Program Description: The Asian languages faculty in the School of International Letters and Cultures offers a graduate program leading to an M.A. in Asian languages
and civilizations-Chinese. In addition to preparing some students for further academic training, the program also helps to prepare students for jobs dealing with China (in such fields as law, business or journalism) and for entrance into professional schools.

Program Requirement: The program of study for the M.A. includes a minimum of 30 credit hours of graduate-level work, as approved by the candidate's supervisory committee and a thesis. The program must include a 500-level bibliography and research methods course offered by the department. When approved by the candidate's supervisory committee, nine hours of advanced-level work in another language or in closely related courses may be included in the program. Students who are primarily interested in teaching at the secondary or community college levels may select a program of study with a concentration in language pedagogy.

Students seeking an M.A. in Asian languages and civilization should consult with the Graduate College. In keeping with the idea of in situ experience as a key ingredient for advanced intellectual understanding, all degree candidates must have spent at least nine continuous months in a Chinese language environment within four years of completing the program.

Admission Requirements: Students interested in applying to the program must submit a Graduate College online application. Candidates for the M.A. should, upon entrance, present the equivalent of an undergraduate major in the language in which the degree is sought. Those who lack this background, but who show strong potential and meet Graduate College admissions requirements, may be admitted to a graduate program on a provisional basis, pending removal of specified deficiencies. These deficiencies must be completed in addition to the regular program of study for the master's degree.

Contact:
School of International Letters and Cultures
http://silc.asu.edu/graduate
silc@asu.edu
LL 440
480/965-6281

Asian Languages/Civilizations: Japanese (MA) LAJAPANMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Asian Languages and Civilizations (Japanese)

Program Description: The Asian languages faculty in the School of International Letters and Cultures offers a graduate program leading to an M.A. in Asian languages and civilizations-Japanese. In addition to preparing some students for further academic training, the program also helps to prepare students for jobs dealing with Japan (in fields such as law, business or journalism) and for entrance into professional schools.
Program Requirement: The program of study for the M.A. includes a minimum of 30 credit hours of graduate-level work and a thesis, as approved by the candidate’s supervisory committee. The program must include a 500-level bibliography and research methods course offered by the department. When approved by the candidate’s supervisory committee, nine hours of advanced-level work in another language or in closely related courses may be included in the program.

Students who are primarily interested in teaching at the secondary or community college levels may select a program of study with an area of study in language pedagogy. Students seeking an M.A. in Asian languages and civilization should consult with the Graduate College. In keeping with the idea of in situ experience as a key ingredient for advanced intellectual understanding, all degree candidates must have spent at least nine continuous months in a Japanese language environment within four years of completing the program.

Admission Requirements: Students interested in applying to this program must submit an online Graduate College application. Candidates for the M.A. should, upon entrance, present the equivalent of an undergraduate major in the language in which the degree is sought. Those who lack this background, but who show strong potential and meet Graduate College admissions requirements, may be admitted to a graduate program on a provisional basis, pending removal of specified deficiencies. These deficiencies must be completed in addition to the regular program of study for the master's degree.

Contact:
School of International Letters and Cultures
http://silc.asu.edu/graduate
silc@asu.edu
LL 440
480/965-6281

Asian Studies (Grad Certificate) LAASIANCE
Official Degree Awarded: CERT Asian Studies (certificate)

Program Description: The graduate certificate in Asian studies offers graduate students an interdisciplinary specialization in Asian language and area studies. The certificate is available in two tracks, East Asia (China, Japan and Korea) and Southeast Asia (Indonesia, Laos, Thailand and Vietnam).

Program Requirement: The certificate requires the completion of 18 credit hours, distributed among a language requirement, core course requirements and electives, and a thesis or capstone project on a topic related to the student's region of emphasis. Some courses may be applied to both the certificate and the student’s degree program.

Admission Requirements: Applicants must submit a Graduate College online application. Graduate students in any discipline may pursue a certificate in Asian
studies in conjunction with their degree programs. This program is also open to students who already hold graduate degrees and have been admitted as nondegree students.

Contact:
School of Social Transformation
http://www.asu.edu/asi
car@asu.edu
COOR
480/965-7184

Astrophysics (MS) LAASTPHMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Astrophysics

Program Description: The program provides fundamental graduate training in astrophysics to prepare candidates for careers in astrophysics, such as scientific staff positions at government laboratories, teaching at the community college level, technical positions in industry, or further graduate study.

Program Requirement: This degree program requires 30 credit hours and a thesis. Twenty credit hours are structured courses. The student, with the approval of the advisor and supervisory committee (formed upon enrollment), selects courses that make up a coherent program of study.

It is normally expected that course work consists of the existing AST 521/522/523 and AST 531/532/533 graduate sequences, which provide comprehensive graduate training in the major fields of astrophysics. These courses are combined with additional work in core fields such as physics or mathematics.

Students are expected to exhibit mastery of topics in these core fields, and may be required by their advisor and committee to include such courses in their program of study. Specific course requirements may be waived by the advisor if the student has successfully completed equivalent courses at universities elsewhere. Individual programs of study that include work in related fields may also be designed with advisor approval, subject to the requirements of the ASU Graduate College.

M.S. programs of study also include a minimum of six credit hours of research (AST 592) and thesis credit (at least three of which must be AST 599). ASU Graduate College policies and procedures must also be met for admission to the program as well as for fulfilling the requirements of the degree.

Thesis Requirements: A thesis based on observational, theoretical, laboratory and/or literature research in astrophysics is required.

Final Examination: A final oral examination in defense of the thesis is required.
Admission Requirements: Students applying for admission to the M.S. in astrophysics program must submit scores on the GRE (verbal, quantitative and analytical). Applicants must also submit official transcripts, three letters of recommendation and a statement of purpose. The deadline for applications for the fall term is January 5. Students must apply using the Graduate College online application.

Contact:
School of Earth and Space Exploration
http://sese.asu.edu
seseinfo@asu.edu
PSF 686
480/965-5081

Astrophysics (PhD) LAASTPHPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Astrophysics

Program Description: The Ph.D. in astrophysics program is designed to develop creative scholarship and prepare students for professional careers in astrophysics, astronomy or related fields.

Program Requirement: This degree program requires 84 credit hours, a dissertation, a written comprehensive examination and an oral comprehensive examination. Students may be admitted into the program with a bachelor’s or master’s degree in a related field. Up to 30 credit hours of master’s-level work in a related field can be accepted towards the fulfillment of the Ph.D. requirements.

The program of study for the Ph.D. will be selected with the recommendation of the student’s supervisory committee, and should include sufficient course work to assure mastery of fields such as:

- Classical mechanics.
- Electrodynamics.
- Quantum mechanics.
- Statistical physics.
- Other core subjects in addition to those covered in the six-course core AST sequence.

Each program of study must include 24 credit hours of a combination of research and dissertation. ASU, Graduate College policies and procedures must also be met for fulfilling the requirements of the degree.

Foreign Language Requirements: None.

Comprehensive Examination: The student’s supervisory committee will determine the content of the comprehensive examination, consisting of a written
and an oral examination.

**Dissertation Requirements:** A dissertation is required that is based on original work demonstrating creativity in research and scholarly proficiency in the subject area.

**Final Examination:** A final oral examination in defense of the dissertation is required.

**Admission Requirements:** Applicants must submit a Graduate College online application. Students applying to the Ph.D. in astrophysics program must also submit scores on the GRE (verbal, quantitative and analytical) and the GRE physics subject test. Additionally, applicants must submit official transcripts, three letters of recommendation and a statement of purpose. The application deadline for fall semester is January 5.

**Contact:**
School of Earth and Space Exploration
http://sse.asu.edu
sse@asu.edu
PSF 686
480/965/5081

**Audiology (AuD) LAAUDAUDD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** AudD Audiology

**Program Description:** The Au.D. program is designed to prepare audiologists for autonomous clinical practice. The clinical doctorate model at ASU stresses the integration of academic classroom learning and practical experience across a broad spectrum of clinical specialties and practice environments.

**Program Requirement:** The Au.D. program is designed for full-time students over a period of 45 months, including four fall and four spring semesters and three summers. The four-year course of study includes both academic and clinical practicum components. The Au.D. program requires a minimum of 101 credit hours, of which 66 are required academic credits provided through the Department of Speech and Hearing Science, and 35 are required clinical credits.

Eligibility for graduation is based upon the following:

1. Successful completion of 66 credit hours of required academic course work.
2. Successful completion of 35 credit hours of clinical experiences.
3. Achieving a passing score on the ASHA Praxis national certification examination in audiology.
**Admission Requirements:** An applicant to the Au.D. program must hold a bachelor's degree in speech and hearing science or another discipline. All applicants must submit a Graduate College online application and have a cumulative GPA of 3.00 or higher and a GRE score of 1000 or higher (total of verbal and quantitative tests).

Applicants must submit:

1. Official transcripts.
2. GRE scores.
3. Three letters of recommendation.

All application materials must be submitted to the graduate admissions office by January 15; enrollment begins in the fall semester only.

**Contact:**
Department of Speech and Hearing Science
http://shs.asu.edu
shsgrad@asu.edu
COOR 2211
480/965-2374

**Biochemistry (MS) LABIOCHMS**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MS Biochemistry

**Program Description:** The faculty in the Department of Chemistry and Biochemistry offer a program leading to the M.S. in biochemistry. The program offers a wide range of active research with an emphasis on contemporary and interdisciplinary study in the areas of biochemistry, life sciences and other biochemistry related fields. Drug design and protein chemistry, nanobiotechnology, biogeochemistry, medicinal chemistry and RNA-protein interactions are a few of the many topics currently being researched.

See http://chemistry.asu.edu/graduate/facultyResearch_grad.asp for information on faculty research and the state-of-the-art facilities available for conducting high-quality investigations. The M.S. in biochemistry prepares students for professional careers in industry, government and educational institutions.

**Program Requirement:** A minimum of 30 credit hours, including course work, seminars, research and thesis are required. Courses are selected by the student in consultation with his/her supervisory committee based on the research area. The M.S. in biochemistry is awarded when the student has obtained a minimum cumulative GPA of 3.00 in course work, demonstrated quality performance in the laboratory and completion of his/her research project, completed a successful thesis
oral defense, and has met all deadline dates and requirements set by the Graduate College.

A program fee in the amount of $300 per semester is required in addition to the normal tuition costs.

Admission Requirements: All applicants must submit the Graduate College online application. All students applying for admission to the program must submit scores for the GRE. The subject test is not required. Application to chemistry and biochemistry programs includes:

1. The completion of an electronic supplemental application providing information on test scores.
2. A personal statement.
3. Contact information for three letters of recommendation.

Information on the supplemental application can be found at http://chemistry.asu.edu/graduate/applicantInfo.asp.

Contact:
Department of Chemistry and Biochemistry
http://chemistry.asu.edu/graduate
chmgrad@asu.edu
PSD 103
480/965-4664

Biochemistry (Medicinal Chemistry) (MS) LABCHMCMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Biochemistry (Medicinal Biochemistry)

Program Description: The faculty in the Department of Chemistry and Biochemistry offer a program leading to the M.S. in biochemistry with a concentration in medicinal chemistry. This program is intended for students who plan to continue their educational training in pharmacy, medical school or a related field and want to expand their background knowledge in biochemistry before beginning their professional education. Students completing the program will be awarded a M.S. in biochemistry degree with a concentration in medicinal chemistry.

Program Requirement: A minimum of 30 credit hours, including course work, seminars, research and an applied project consisting of a written research paper are required. Courses are selected by the student in consultation with his/her supervisory committee based on the research area. The M.S. in biochemistry is awarded when the student has obtained a minimum cumulative GPA of 3.00 in course work, demonstrated quality performance in the laboratory and completion of his/her research project, completed and presented an approved research paper at an oral defense to the student’s supervisory committee and met all deadline dates and requirements set by the Graduate College.
A program fee in the amount of $300 per semester is required in addition to the normal tuition.

Admission Requirements: All students applying for admission to the program must meet the requirements set by the Graduate College which can be found on Graduate College Web site. Applicants must have:

1. Completed a bachelor's degree in chemistry, biochemistry or a related area from a regionally accredited institution.
2. A B.S. cumulative GPA of 3.40 or better.
3. Original scores for the GRE. The subject test is not required.

Application to the Department of Chemistry and Biochemistry includes the completion of electronic supplemental application providing information on:

1. Test scores.
2. A personal statement.
3. Contact information for three letters of recommendation.

Contact:
Department of Chemistry and Biochemistry
http://chemistry.asu.edu/graduate/
chmgradl@asu.edu
PS D 103
480/965-4664

Biochemistry (PhD) LABIOCHPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Biochemistry

Program Description: The faculty in the Department of Chemistry and Biochemistry offer a program leading to the Ph.D. in biochemistry. The program offers a wide range of active research with an emphasis on contemporary and interdisciplinary study in the areas of biochemistry, life sciences and other biochemistry related fields. A few of the many topics currently being researched:

- Drug design.
- Protein chemistry.
- Nanobiotechnology.
- Biogeochemistry.
- Medicinal chemistry.
- RNA-protein interactions.

The faculty also participate in a number of other interdisciplinary programs leading to the Ph.D. See
http://chemistry.asu.edu/graduate/facultyResearch_grad.asp for information on
faculty research and the state-of-the-art facilities available for conducting high quality investigations. The Ph.D. in biochemistry prepares students for professional careers in industry, government and educational institutions.

Program Requirement:

1. A minimum of 84 credit hours, including course work, seminars, research, and dissertation are required.
2. Courses are selected by the student in consultation with his/her supervisory committee based upon research area.
3. A doctoral comprehensive examination, consisting of both a written and oral presentation of current research and an original research proposal is required for advancement to candidacy.
4. The Ph.D. in biochemistry is awarded when the student has obtained a minimum cumulative GPA of 3.00 in course work.
5. Demonstrated quality performance in the laboratory and completion of his/her research project.
6. Evidence of a publishable contribution of original research.
7. Completion of a successful dissertation oral defense.
8. Meeting all deadline dates and requirements set by the Graduate College.

Admission Requirements: All students applying for admission to the program must meet the requirements set by the Graduate College which can be found on Graduate College Web site at http://graduate.asu.edu/admissions/index.html. Applicants must also submit original scores for the GRE. The subject test is not required.

Application to the Department of Chemistry and Biochemistry includes:

1. The completion of an electronic supplemental application providing information on test scores.
2. A personal statement.
3. Contact information for three letters of recommendation.

Information on the supplemental application can be found at http://chemistry.asu.edu/graduate/applicantInfo.asp.

Contact:
Department of Chemistry and Biochemistry
http://chemistry.asu.edu/graduate/
chmgrad@asu.edu
PS D103
480/965-4664

Biology (MS) LABIOMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Biology
Program Description: This program is designed to prepare students for careers in teaching and research in educational, medical, industrial and governmental institutions.

Program Requirement:

1. The program of each student is prepared in consultation with the supervisory committee, consisting of a major professor and two additional faculty members.
2. A minimum of 30 credit hours is required.
3. The program must include six hours of thesis and one hour of seminar.
4. The remainder of the program of study usually consists of a mixture of course work, readings and conference and seminars in the student’s primary field and related fields, and research credits.
5. Courses and research credits can be distributed in any combination appropriate to the student’s individual educational goals.
6. A typical program of study consists of six credit hours of thesis, one credit hour of seminar, nine to 15 hours of course work and additional seminars and eight to 14 credit hours of research credit.
7. A final oral examination covering the thesis and related subject matter is administered by the supervisory committee.

Admission Requirements: Applicants must submit a Graduate College online application. Admission criteria are as follows:

1. Applicants should have completed the requirements for an undergraduate major in biology or related discipline.
2. A 3.00 minimum GPA during the student’s last two years or last 60 credit hours.
3. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile), and writing (5).
4. Test of English as a Foreign Language (TOEFL) scores of 250 computer-based, 600 paper-based or 100 Internet-based.

Contact:
School of Life Sciences
http://sols.asu.edu/grad/
sols.grad@asu.edu
LS C226
480/965-1768

Biology (PhD) LABIOPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Biology
**Program Description:** The Ph.D. in biology program allows the student to acquire high research competency in one or more specialized areas while receiving a broad, solid grounding in biological sciences.

**Program Requirement:**

1. The program of study is planned by the student and the supervisory committee, consisting of a major professor and four additional faculty members.
2. The program is tailored to the needs of the individual student.
3. Eighty-four credit hours are required.
4. Twelve hours of dissertation are required and the remaining hours are comprised of course work showing breadth in biology subdisciplines, seminars and research.
5. An oral comprehensive examination is required in order to advance to candidacy, and a formal defense of the final written dissertation is required prior to graduation.

**Admission Requirements:** Applicants must submit a Graduate College online application. Admission criteria are as follows:

1. Applicants should have completed the requirements for an undergraduate major in biology, or related discipline, with an adequate background in related courses in chemistry, mathematical and physical sciences.
2. A 3.00 minimum GPA during the student's last two years or last 60 credit hours.
3. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile), and writing (5).
4. Test of English as a Foreign Language (TOEFL) scores of 250 computer-based, 600 paper-based or 100 Internet-based.

**Contact:**
School of Life Sciences
http://sols.asu.edu/grad
sols.grad@asu.edu
LS C226
480/965-1768

**Biology (Biology and Society) MS LABIOSMS**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MS Biology (Biology and Society)

**Program Description:** Within the biology degree programs, students may choose a formal concentration in the areas where biology intersects with society. There are two tracks:

- Bioethics, policy and law.
• History and philosophy of science.

Bioethics, policy and law trains students in the pressing moral, policy and legal issues raised by the biosciences and biomedicine and in the disciplinary methods necessary to address these issues. The history and philosophy of science trains students in the conceptual foundations of science, including especially the epistemological and methodological assumptions that shape science and its progress.

The program is richly interdisciplinary, drawing from the following and other disciplines to develop skills for analyzing and addressing the problems where biology intersects with society:

• Anthropology.
• Biology.
• Health administration of policy.
• History.
• Justice studies.
• Law.
• Nursing.
• Philosophy.
• Political science.
• Religious studies.

The concentration tailors individual programs of study to individual needs and interests, with a solid grounding in the life and related sciences and with rigorous analytical and multidisciplinary education. The two tracks offer suggested courses for those wishing to focus on these areas.

Contact:
School of Life Sciences
http://sols.asu.edu
LSC 226
sols.grad.asu.edu
480/965-2349

Biology (Biology and Society) PHD LABIOSPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Biology (Biology and Society)

Program Description: Within the biology degree programs, students may choose a formal concentration in the areas where biology intersects with society. There are two tracks:

• Bioethics, policy and law.
• History and philosophy of science.

Bioethics, policy and law trains students in the pressing moral, policy and legal issues raised by the biosciences and biomedicine and in the disciplinary methods necessary to address these issues. The history and philosophy of science trains students in the conceptual foundations of science, including especially the epistemological and methodological assumptions that shape science and its progress.

The program is richly interdisciplinary, drawing from the following and other disciplines to develop skills for analyzing and addressing the problems where biology intersects with society:

• Anthropology.
• Biology.
• Health administration of policy.
• History.
• Justice studies.
• Law.
• Nursing.
• Philosophy.
• Political science.
• Religious studies.

The concentration tailors individual programs of study to individual needs and interests, with a solid grounding in the life and related sciences and with rigorous analytical and multidisciplinary education. The two tracks offer suggested courses for those wishing to focus on these areas.

Program Requirement: A total of 85 credit hours are required. An oral and written comprehensive examination are required as, along with a completed dissertation.

Admission Requirements: The biology and society concentration within the biology doctoral program admits one cohort annually for programs of study that begin in the fall semester. The deadline for applications is Dec. 15 for students wishing to begin a program of study the following August. There is no guarantee that applications received after Dec. 15 will be reviewed. The biology Ph.D. program usually notifies applicants of admissions status no later than the following April 15. Top candidates are usually interviewed prior to admission to the program. Please check out our tips on applying for graduate study in the School of Life Sciences at http://sols.asu.edu/grad/apply_tips.php for additional information.
Students must submit an online application to the Graduate College.

1. Select “Sciences (Life, Natural, Physical & Chemical)” as your degree program category.
2. Select “Tempe” as your degree program campus.
3. Select "Biology Ph.D. Degree" as your degree program.
4. Identify the specific biology program faculty member(s) you are interested in working with. This will ensure that these faculty members see your application and can participate in admissions and funding decisions.
5. Download and print three copies of the School of Life Sciences recommendation form (http://sols.asu.edu/grad/pdf/recommend_form.pdf).
   - Complete and sign the top portion of each form.
   - Give one form to each of the three persons who will be writing your letters of recommendation.
   - Ask the letter writers to mail paper copies of both the form and their letters of recommendation to:

   Graduate Programs
   School of Life Sciences
   Biology Ph.D. Program
   Arizona State University
   P.O. Box 874601
   Tempe, AZ 85287-4601
6. Prepare and upload the School of Life Sciences academic record form (http://sols.asu.edu/grad/pdf/academic_record_form.doc).

**International Students:** Students applying from outside of the U.S. will need to submit additional documents (http://graduate.asu.edu/admissions/international.html). Students from countries whose native language is not English must provide evidence of English proficiency with acceptable scores on the TOEFL or IELTS. TOEFL and IELTS scores must be current, with the test date within two years of the first day of classes of the semester you enroll at ASU. Students who wish to attend ASU while holding a student visa (F–1 or J–1) will need to submit a financial guarantee form (http://graduate.asu.edu/f1j1applicants.html).

**Contact:**
School of Life Sciences
http://sols.asu.edu
LSC 226
sols.grad.asu.edu
480/965-2349

**Chemistry (MNS) LACHEMMNS**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MNS Natural Science (Chemistry)
**Program Description:** The M.N.S. in chemistry offers the opportunity for interdisciplinary graduate training in the natural sciences (biological sciences, mathematics and physical sciences) and cognate (related) areas. The program emphasizes professional training rather than research and is designed as an individualized professional graduate program based on the background and goals of the student.

Applications are not being accepted at this time.

**Program Requirement:** A minimum of 30 credit hours, including course work, seminars, research, and an applied project are required. The student must complete four graduate-level courses, two within the Department of Chemistry and Biochemistry and two from a related discipline which supports the students’ academic goals.

The M.N.S. in chemistry is awarded when the student has obtained:

1. A minimum cumulative GPA of 3.00 in course work.
2. Completes a preapproved project agreed on by the student and his/her supervisory committee members.
3. The culminating experience may include a short literature review paper or report of a project presented in both a written form and an oral presentation before the student’s supervisory committee.
4. The student must meet all deadline dates and requirements set by the Graduate College.

**Admission Requirements:** Applications are not being accepted at this time.

**Contact:**
Department of Chemistry and Biochemistry
http://chemistry.asu.edu/graduate/applicantInfo.asp
chmgrad@asu.edu
PS D 103
480/965-4664

Chemistry (MS) LACHEMMS
College of Liberal Arts and Sciences

**Official Degree Awarded:** MS Chemistry

**Program Description:** The faculty in the Department of Chemistry and Biochemistry offer a program leading to the M.S. in chemistry. Areas of study include:

- Analytical chemistry.
- Biochemistry.
- Geochemistry.
- Inorganic chemistry.
- Organic chemistry.
• Physical chemistry.
• Chemical education.
• Solid-state chemistry.

A few of the many topics currently being researched:

• Dynamics of liquids and glasses.
• Environmental chemistry.
• Functional semiconductors.
• Genome analysis.
• Nanomaterials.
• Organic and inorganic synthesis.
• Photosynthesis and photo chemistry.
• Theoretical chemistry.

See http://chemistry.asu.edu/graduate/facultyResearch_grad.asp for information on faculty research and the state-of-the-art facilities available for conducting high quality investigations. The M.S. in chemistry prepares students for professional careers in industry, government and educational institutions.

*Program Requirement:* A minimum of 30 credit hours, including course work, seminars, research, and thesis, are required. Courses are selected by the student in consultation with his/her supervisory committee based upon research area. The M.S. in chemistry is awarded when the student has obtained a minimum cumulative GPA of 3.00 in course work, demonstrated quality performance in the laboratory and completion of his/her research project, completed a successful thesis oral defense, and has met all deadline dates and requirements set by the Graduate College.

*Admission Requirements:* All students applying for admission to the program must meet the requirements set by the Graduate College which can be found at http://graduate.asu.edu/admissions/index.html. Applicants must also submit original scores for the GRE. The subject test is not required.

Application to the Department of Chemistry and Biochemistry includes:

1. The completion of an electronic supplemental application providing information on test scores.
2. A personal statement.
3. Contact information for three letters of recommendation.

Information on the supplemental application can be found at http://chemistry.asu.edu/graduate/applicantInfo.asp.

*Contact:*
Department of Chemistry and Biochemistry
Chemistry (PhD) LACHEMPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Chemistry

Program Description: The faculty in the Department of Chemistry and Biochemistry offer a program leading to the Ph.D. in chemistry. Areas of study include:

- Analytical chemistry.
- Biochemistry.
- Geochemistry.
- Inorganic chemistry.
- Organic chemistry.
- Physical chemistry.
- Chemical education.
- Solid-state chemistry.

A few of the many topics currently being researched:

- Dynamics of liquids and glasses.
- Environmental chemistry.
- Functional semiconductors.
- Genome analysis.
- Nanomaterials.
- Organic and inorganic synthesis.
- Photosynthesis and photo chemistry.
- Theoretical chemistry.

See http://chemistry.asu.edu/graduate/facultyResearch_grad.asp for information on faculty research and the state-of-the-art facilities available for conducting high quality investigations. The Ph.D. in chemistry prepares students for professional careers in industry, government and educational institutions.

Program Requirement:

1. A minimum of 84 credit hours, including course work, seminars, research, and dissertation, are required.
2. Courses are selected by the student in consultation with his/her supervisory committee based upon research area.
3. A doctoral comprehensive examination consisting of both a written and oral presentation of current research and an original research proposal is required for advancement to candidacy.

The Ph.D. in chemistry is awarded when the student has obtained:

1. A minimum cumulative GPA of 3.00 in course work.
2. Demonstrated quality performance in the laboratory and completion of his/her research project.
3. Evidence of a publishable contribution of original research.
5. Meeting all deadline dates and requirements set by the Graduate College.

Admission Requirements: All students applying for admission to the program must meet the requirements set by the Graduate College which can be found on the Graduate College Web site. Applicants must also submit original scores for the GRE. The subject test is not required.

Application to the Department of Chemistry and Biochemistry includes:

1. The completion of an electronic supplemental application providing information on test scores.
2. A personal statement.
3. Contact information for three letters of recommendation.

Information on the supplemental application can be found at http://chemistry.asu.edu/graduate/applicantInfo.asp.

Contact:
Department of Chemistry and Biochemistry
http://chemistry.asu.edu/graduate
chmgrad@asu.edu
PS D103
480/965-4664

Communication (MA) LACOMMOMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Communication

Program Description: The faculty in the Hugh Downs School of Human Communication offer a program leading to the M.A. in communication. Current areas of study within the major are intercultural communication, interpersonal communication, performance studies, organizational communication and rhetorical studies.
Program Requirement: The program consists of a minimum of 30 credit hours of graduate course work, which includes six hours of thesis credit. All students must successfully complete the following:

1. COM 501 Research Methods in Communication with a minimum grade of “B” (3.00).
2. COM 504 Theories and Models in Communication with a minimum grade of “B” (3.00).
3. At least one of the following three courses: COM 508 Quantitative Research Methods in Communication, COM 509 Qualitative Research Methods in Communication or COM 521 Rhetorical Criticism of Public Discourse with a minimum grade of “B” (3.00).
4. At least three content seminars (COM courses numbered 691).
5. Students may choose to complete either a thesis or one of two nonthesis options:
   - Thesis Track: students must complete a thesis of original research, and an oral examination in defense of the thesis.
   - Nonthesis Track Option 1 - Applied Project: students must complete an applied project* in a 3-credit-hour 593 omnibus designated course and defend the project in an oral examination. The applied project must be approved by the student's supervisory committee.* e.g., design a training program, evaluate existing training or communication program, conduct and write a report of a facilitated workshop, take mediation training and work with a client, create and present a performance, analyze a health campaign, write a research report, etc.
   - Nonthesis Track Option 2 - Comprehensive Examination: Students must complete a four-hour noncredit written comprehensive examination over communication theory, methodology and the student’s area of emphasis.

Students must have an approved plan of study prior to scheduling their comprehensive examination and/or registering for their applied project course.

Admission Requirements: Admission is competitive, based upon evidence of the applicant’s scholarly and research abilities. All applicants must submit the following:

1. A Graduate College application, completed online, along with official undergraduate and graduate transcripts.
2. A statement of professional goals (approximately 500 words).
3. GRE scores (verbal, quantitative, and analytical writing) taken within the past five years, plus other relevant test data provided by the applicant.
4. Three letters of recommendation prepared within the preceding 12 months;
5. A writing sample.
6. All applicants whose native language is not English must submit Test of English as a Foreign Language (TOEFL) scores; minimum scores are 600 on the paperversion of this test or 250 on the computer version of this test.
A completed application for admission and official transcripts of all undergraduate and graduate work must be submitted to the graduate admissions office. See http://graduate.asu.edu/ for Graduate College general requirements. All application materials must be received by February 1. Late applications cannot be considered.

Contact:
Hugh Downs School of Human Communication
http://humancommunication.clas.asu.edu/
communication@asu.edu
STA 412
480/965-5095

Communication (PhD) LACOMMOPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Communication

Program Description: The committee of faculty offers an interdisciplinary graduate program leading to the Ph.D. in communication. Concentrations are available in communicative development, intercultural communication and organizational communication.

The program is housed in the Hugh Downs School of Human Communication and is designed to prepare scholars for research-oriented careers in universities and in the public or private sectors. Students are provided training in communication theory, research methodology and a specialization in one or more areas of concentration. The goal of the program is to meet the needs of students whose interests transcend traditional disciplinary boundaries.

Program Requirement: This degree program requires 96 credit hours, a dissertation, a written comprehensive examination and an oral comprehensive examination. If the student has completed an appropriate master’s degree, the Ph.D. requires a minimum of 66 hours beyond the master's degree.

Course work for a typical program of study is distributed as follows:

- Required core courses (six credit hours)
- Area of concentration (36 credit hours)
- Dissertation (COM 799)
- Research (COM 792) (24 credit hours)

Up to 12 credit hours of research (COM 792) may be taken before admission to candidacy. Three interdisciplinary theory and methodology courses are required of all students entering the program. The required theory course is COM 604 Theory Construction in Communication. Students are required to take three credit hours of COM 792 R: Prospectus/Dissertation Practicum and three semester hours of COM
792 R: Seminar Assistant. In addition, students must take one of the three advanced methods courses:

- COM 607 Contemporary Rhetorical Methods
- COM 608 Multivariate Statistical Analysis of Data in Communication
- COM 609 Advanced Qualitative Research Methods in Communication

The student is also required to demonstrate proficiency in research methods (statistics, computer languages, content analysis methods, participant observation, etc.) which, in the judgment of the supervisory committee, is needed for the student’s dissertation research. Evidence of required proficiency may be demonstrated by established university examination procedures or by successful completion of a sequence of courses designated by the student’s program committee.

The initial course work for students admitted with only a bachelor’s degree is similar to the M.A. in communication degree requirements except that no thesis is required. These requirements include a total 24 credit hours of course work:

1. A general overview of research in communication (COM 501).
2. An overview of theories and models of communication (COM 504).
3. A statistics course (COM 508).
4. Electives from communication or other disciplines.

The methods, theory, and statistics courses must be completed before beginning the required theory and methodology sequence for the Ph.D. (i.e., they are prerequisites for the required courses).

Admission Requirements: Applicants must submit:

1. A Graduate College online application.
2. Official transcripts.
3. Statement of goals.
4. GRE scores.
5. Test of English as a Foreign Language (TOEFL) scores, if applicable.
6. Three letters of recommendation.
7. Writing sample.

Please visit the Hugh Downs School of Human Communication Web site for details.

Contact:
Hugh Downs School of Human Communication
http://humancommunication.clas.asu.edu/
communication@asu.edu
STA 412
480/965-5095
Program Description: The Ph.D. in computational biosciences is designed such that graduates of the program will be able to transition immediately into the computational biosciences workforce with strong quantitative, computational and life science skills. The concentration in computational biosciences augments the mathematics Ph.D. with a truly interdisciplinary program. It broadens the opportunities for students to take on a completely interdisciplinary doctoral training, while also maintaining a disciplinary focus to their studies. There is increasing emphasis nationally and locally on developments in the quantitative biological sciences.

Program Requirement: This degree program requires 84 credit hours, a dissertation, a written comprehensive examination and an oral comprehensive examination. A standard doctoral degree program at ASU comprises 84 hours of study, of which 12 hours (and only 12) are for the dissertation, and of which 30 credit hours may be applied from an appropriate master’s degree.

Students must satisfy core components of the computational biosciences concentration. See Web site for detailed information.

Admission Requirements: Applicants must submit the Graduate College online application. Students are required to have satisfied courses in mathematics, statistics, biology, chemistry and computer science prior to admission to the program. Students are encouraged to plan early for admission to the program in order to allow completion of any deficiencies. Courses are available at ASU, some during the two summer sessions. Students with a limited number of deficiencies may be conditionally admitted to the program, if it is likely that the deficiencies can be completed prior to admission or concurrently with core courses of the program in at most one semester. If a student has completed courses equivalent to the following listed courses at ASU, they have satisfied conditions for regular admission to the program at ASU. Please note that there are prerequisites required for each of these courses.

Program Prerequisites:

- BIO 340 General Genetics
- BIO 353 Cell Biology
- CHM 231 Elementary Organic Chemistry
- BCH 361 Principles of Biochemistry
- MAT 275 Modern Differential Equations
- STP 420 Introductory Applied Statistics
- CSE 205 Concepts of Computer Science and Data Structures
Creative Writing (MFA) LACWRITMFA
College of Liberal Arts and Sciences

Official Degree Awarded: MFA Creative Writing

Program Description: ASU creative writing offers an exceptional program in creative activity—a curricular model that guides talented individuals in writing original poetry, fiction and nonfiction. Equally, this model informs service projects that reach out to Arizona, the nation and an international community of writers. Program innovation and vitality together with exemplary mentorship from a superior teaching faculty combine to shape and define pragmatic, successful outcomes for students of the M.F.A. program—new century graduates we distinguish as artist-citizens.

Characterized as an interdisciplinary “studio/academic program,” M.F.A. students divide work equally between writing workshops and literature and theory courses. In a flexible curriculum, poets and prose writers work with professors in the Department of English, allowing candidates time to study with several gifted writers and scholars in a program, each student confronts the challenge of producing primary works of literature in a real-world setting. Courses such as “Creative Writing and the Professions” and “Internship for Community Outreach” encourage students to envision life beyond graduation, providing training that will lead to mainstream publishing and performance, moving students from the classroom, from theory to first book.

Program Requirement: The M.F.A. in creative writing program requires 48 credit hours, a practicum and a written comprehensive examination. In poetry and fiction, the program of study requires a minimum of 48 credit hours of graduate credit approved by the student’s faculty advisor.

Admission Requirements: In addition to meeting the general requirements of the Graduate College, applicants should have an undergraduate major in English or theatre, with a GPA of 3.00 or higher. Applicants who do not have an undergraduate major in English or theatre may be admitted on the basis of excellent creative and academic work. Deficiencies in undergraduate preparation may be removed while pursuing the M.F.A. degree. Applicants must also submit the following:

1. Three letters of recommendation.
2. A professional résumé.
3. A statement of purpose.
Contact:
Department of English
http://english.clas.asu.edu/cw-admission
enggrad@asu.edu
LL C315
480/965-3528

East Asian Languages and Civilization (PhD) LAEALCPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD East Asian Languages and Civilizations (Chinese)

Program Description: The Ph.D. program in East Asian languages and civilizations is a research-intensive, interdisciplinary, area-based degree in the study of traditional and modern languages and cultures of China and Japan. Students may focus on literature, literary criticism, comparative cultural studies, cultural history or linguistics. In every case, students will be expected to acquire a solid grounding in the classical and modern versions in the primary language of their area.

Program Requirement: The program will require a minimum of 84 credit hours. Up to 30 hours earned in a master's degree program that is directly relevant to the degree may be counted toward that number. However, a minimum of 30 credit hours of course work and 24 hours of research are required beyond the M.A. level. If a student already has an M.A., it will not be necessary to complete the existing School of International Letters and Cultures M.A. in Asian languages and civilizations. However, the student will be required to satisfy all course requirements for the M.A.

All students, whether in Chinese or Japanese, are required to complete:

1. A minimum of six courses selected from advanced courses in literature, religions or intellectual history.
2. Five seminars.
3. SLC 500 Theory and Methodology of East Asian Literature and Culture.
4. Students must complete written and oral comprehensive examinations in four fields, three of which must be selected from areas that are well represented within the East Asian languages and civilizations Ph.D. graduate curriculum.
5. Students are also required to demonstrate reading knowledge of a second pertinent Asian language and one pertinent European language, aside from English.
7. Twelve core requirements.

Admission Requirements: Potential applicants who hold a bachelor’s degree from a regionally accredited institution in a related field are eligible to apply to the
The following entry-level competencies are needed for admission to the program:

**Chinese concentration**
Completion of at least three years of modern Chinese and one year of classical Chinese.

**Japanese concentration**
Completion of at least three years of modern Japanese and one semester of classical Japanese.

Applicants will be required to submit:

1. A statement of career and educational goals.
2. An official ASU graduate application.
3. Official GRE scores.
4. Official transcripts of all undergraduate and graduate course work.
5. Three letters of recommendation (two of which should be academic recommendations).

Regular admission may be granted to applicants who have achieved a GPA of 3.30 (4.00 scale) or better in the last two years of work leading to the bachelor’s degree and who are competitive in the applicant pool as evidenced by GRE scores (verbal, quantitative and analytical), the statement of career and educational goals and the letters of recommendation.

**Contact:**
School of International Letters and Cultures
http://silc.asu.edu/graduate
silc@asu.edu
LL 440
480/965-2715

**English (MA) LAENGLMA**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MA English

**Program Description:** The M.A. in English encompasses four distinct concentrations. Literature students develop and hone skills in oral presentation, writing and critical thinking while exploring social, historical and cultural contexts.

In the broad-based and global linguistics concentration, students study theory and application focusing on phonology, syntax, sociolinguistics, historical linguistics and second language acquisition.
The rhetoric and composition concentration offers a wide array of courses encompassing the history, theory and practice of rhetoric and pedagogy of writing.

Comparative literature students interpret cultural productions in English and at least one other language, and explore approaches ranging from textual criticism, critical theory, and translation to cultural studies and the social sciences.

The M.A. in English prepares students to be teachers, scholars, writers and editors, and to work in a variety of professions, including government, advertising, fundraising and public relations.

Program Requirement: A student may pursue a concentration in comparative literature, English linguistics, literature or rhetoric and composition. All concentrations have a foreign language requirement.

For the concentration in comparative literature, a candidate must complete:

1. Thirty credit hours of graduate courses, with a minimum of 12 credit hours being taken in the School of International Letters and Cultures.
2. Two courses in concepts and methodology (one of which must be bibliographical methods).
3. Six credit hours of special topic courses.
5. A written comprehensive examination is required.

For the concentration in English linguistics, two tracks are available. A candidate must complete a minimum of 30 credit hours of graduate-level courses:

The general linguistics track must include: LIN 500, 511, 514 and 515 and one advanced linguistics course.

1. The applied linguistics track must include: LIN 500; 511 or 514; 515 or 516; and 520 and a course from a selection of advanced linguistics courses.
2. Both tracks require six credit hours of LIN 599 Thesis.
3. Electives are chosen in consultation with the advisor.

For the concentration in literature, a candidate must complete a minimum of 30 credit hours. The hours must include:

1. ENG 500 Research Methods.
2. A course in literary theory.
3. ENG 599 Thesis.
4. A nine-credit-hour distribution requirement.
5. Two courses selected must be graduate seminars at the 600 level.
6. Electives are chosen in consultation with the advisor.
For the concentration in rhetoric and composition, a candidate must complete a minimum of 30 credit hours of graduate courses, and these hours must include:

1. ENG 500 Research Methods.
2. A course in rhetoric theory.
3. A course in composition theory.
5. Fifteen elective course hours, that must include six credit hours of graduate seminars at the 600 level.

Electives are chosen in consultation with the advisor.

Admission Requirements: Applicants must submit a Graduate College online application. Applicants for the M.A. in English program with a concentration in literature are required to have an undergraduate major in English. Those who do not have a major in English are encouraged to register as nondegree students while they take courses in areas of deficiency, as identified by the advisor. Applicants must also submit:

1. GRE general test scores.
2. Three letters of recommendation.
3. A statement of purpose.
4. An academic writing sample.

Applicants for the M.A. in English program with a concentration in linguistics and with a concentration in rhetoric and composition may have undergraduate majors in fields such as, but not limited to:

- Anthropology.
- Applied linguistics.
- Cognitive science.
- Communication.
- Comparative languages and literatures.
- Education.
- English literature.
- History.
- Law.
- Linguistics.
- Modern languages.
- Philosophy.
- Political science.
- Psychology.
- Religion.
- Rhetoric/composition.
- Sociology.
- Speech and hearing science.
Students should consult with an advisor to determine whether their preparation is deficient in any area. Applicants must also submit three letters of recommendation and a statement of purpose. Applicants for the rhetoric and composition concentration must also submit:

1. GRE general test scores.
2. An academic writing sample.

Applicants for the linguistics concentration must show completion of one upper-division course in a linguistics-related field.

Applicants for the M.A. in English program with a concentration in comparative literature must:

1. Prove fluency in a foreign language to a level sufficient for graduate study.
2. Submit three letters of recommendation.
3. Submit a statement of purpose.

Contact:
Department of English
http://english.clas.asu.edu/graduate
enggrad@asu.edu
LL 543B
480/965-3194

English Literature (PhD) LAENLITPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD English (Literature)

Program Description: This Ph.D. program promotes the study of the production, distribution and reception of texts; of their linguistic, rhetorical and literary structures and functions; and of internal and external forces shaping literature. Faculty members often incorporate diverse modes of inquiry (including both traditional and recent critical approaches to literary studies) into course content and methodology allowing students flexibility to pursue work in specific periods, critical theory, cultural studies, race, class and gender, and provide a mechanism to juxtapose high and low cultural texts and/or canonical and newly emerging texts. The program prepares students for entrance into the profession as both teachers and scholars.

Program Requirement: The Ph.D. program is a total of 84 credit hours, a dissertation, a written or oral examination and a foreign language exam. In general, a student with an appropriate master's degree must complete a minimum of 54 credit hours of approved graduate work, which includes 12 credit hours of dissertation. Research hours may be used towards course work in consultation with the advisor.

A student without an appropriate master's degree must complete 84 credit hours of
work at ASU. At the advisor's discretion, students may include up to 12 credit hours of appropriate, graduate-level course work undertaken at another university, and not previously counted towards any other degree. Specifically required are six credit hours in theory courses and ENG 500 Research Methods. Students must complete (or have completed at the master's level or its equivalent) one graduate course in eight of the following 10 categories:

- Cultural studies.
- Ethnic studies.
- Gender studies.
- Genre.
- History/structure of the English language.
- Literature 1500-1660.
- Literature 1660-1900.
- Literature since 1900.
- Literature to 1500.
- Postcolonial/Anglophone literatures.

Students must take at least five graduate seminars at the 600 level en route to the Ph.D. degree, at least three of which must be taken in the Ph.D. program. Up to 12 credit hours taken outside the department may be counted toward the degree. Students should consult with their supervisory committees when choosing electives.

**Admission Requirements:** Applicants must submit a Graduate College online application. Applicants for the Ph.D. degree in English must submit:

1. Three letters of recommendation.
2. A statement of purpose.
3. An academic writing sample.
4. GRE general scores are required for both concentrations.

The GRE advanced literature section is optional for the literature concentration. Deadline for admission applications and requests for financial aid, including teaching assistantships, is Feb. 1. Incomplete files are not considered.

Materials should be sent to:

Graduate Coordinator  
Department of English  
Arizona State University  
P.O. Box 870302  
Tempe, AZ 85287-0302

**Contact:**  
Department of English  
http://english.clas.asu.edu/graduate  
engggrad@asu.edu
Environmental Life Sciences (PHD) LAELSPHD
College of Liberal Arts & Sciences

Official Degree Awarded: PHD Environmental Life Sciences

Program Description: Environmental life sciences is a novel graduate degree that will provide Ph.D.-level training in several complementary fields focused on interactions between organisms (plant, animal or microbe) and their environment. The program will provide transdisciplinary training that includes aspects of:

- Biology.
- Chemistry/biochemistry.
- Environmental engineering.
- Geosciences.
- Mathematics.
- Social sciences.
- Sustainability.

Graduate students will be trained in core classes, seminars, reading groups and research clusters. A focus will be collaborative and integrative study of the effects of environmental variation on fluxes of materials and energy across scales ranging from the organism to the globe. Our overall goal is to provide a unique Ph.D. program that produces students with a broad appreciation of environment-organism questions in the context of natural and anthropogenic environmental change.

Program Requirement: As specified in each student’s plan of study, the total number of credit hours should consist of seven credit hours of core courses, a minimum of nine hours of electives and 12 hours of dissertation credit (ELS 799). Beyond these 28 credit hours, the remaining credit hours should be filled either from electives or from the ELS omnibus courses up to the required number of total credit hours (54 if entering with a master’s degree or 84 otherwise).

Admission Requirements: Applicants must possess a minimum of a bachelor’s degree (or equivalent) or a graduate degree from a regionally accredited college or university or of recognized standing in a related field. They must have had a minimum of a 3.00 cumulative GPA (on a scale of 4.00) in the last 60 hours of their first bachelor’s degree. All applicants must submit GRE results.

Contact:
School of Life Sciences
http://els.asu.edu/
LSE 421
480/727-7254
Environmental Social Science (PhD) LAESSPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Environmental Social Science

Program Description: The Ph.D. in environmental social science (ESS) is one of the few doctoral programs in the U.S. that draws on the premise that reducing human impacts and developing more sustainable environmental practices will be difficult, if not impossible, to achieve without a focus on the social dynamics of environmental issues using critical social science perspectives.

The program is organized around theoretically based conceptual domains (political ecology, culture and the environment, environmental justice, science and technology studies, environmental hazards and vulnerability and human environment impacts). These are the basis for addressing various topical foci (including urban environments, technologies and their consequences, landscapes, institutions and health and the environment).

Students will work with faculty who have expertise in a broad range of fields including:

- Archaeology.
- Community resources.
- Cultural and medical anthropology.
- Demography.
- Environmental history.
- Geographic information systems.
- Human and physical geography.
- Planning.
- Public affairs.
- Science and technology studies.
- Sociology.

The ESS program will train students to move into teaching and research positions, or to assume leadership roles in nongovernmental organizations (NGOs), government or industry.

Course work for the degree is focused on developing real-world skills and a solid grasp of complex social science approaches to environmental issues. Students work closely with their committee to develop a curriculum appropriate to their chosen interests and career goals.

Program Requirement: All students entering the program complete a suite of classes totaling 30 hours. These include 18 hours of core classes in conceptual domains and topical foci. Additional hours come from one course each in research design and
technical expertise and six hours of electives. Students may select from a substantial range of courses to satisfy noncore requirements.

Students entering with an M.A. will be granted up to 30 credit hours toward the 84 hour total required for the Ph.D. Students without an M.A. must earn an additional 30 hours of graduate credit, selecting courses from a number of appropriate programs on campus.

All students must earn 12 (and only 12) dissertation hours and may earn up to 12 research hours for a total of 24 hours to achieve the 84 hour total.

**Admission Requirements:** Applicants are required to have a bachelor's degree from a regionally accredited institution with a grade point average of 3.20 (4.00 scale) or higher in the last two years of course work.

A master's degree in any relevant field is advantageous for environmental social science (ESS) students, or students can earn an M.A.-in-passing as part of the ESS graduate program.

In addition to general requirements for admission to the Graduate College, the environmental social science Ph.D. program requires students to provide:

1. A statement of their interests and goals as a professional.
2. Three letters of recommendations.
3. A sample of their written work.
4. GRE scores.

While undergraduate work in one of the social sciences (e.g. geography, political science, sociology, anthropology, planning or history) is not required, some course work in the social sciences is advantageous for admission. Students may be required to take additional courses as noted at the time of admission if they lack an adequate background in the social sciences.

**Contact:**
School of Human Evolution & Social Change
http://shesc.asu.edu/graduate_studies
shescgrad@asu.edu
SHESC 233
480/965-6215

**Environmental Social Science (Urbanism) PHD LAESSURPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Environmental Social Science (Urbanism)

**Program Description:** The Doctor of Philosophy in environmental social science is one of the few doctoral programs in the U.S. that focus on the social dynamics of environmental issues using critical social science perspectives which are a vital
component of reducing human impacts and developing more sustainable environmental practices.

The program is organized around theoretically based conceptual domains:

- Political ecology.
- Culture and the environment.
- Environmental justice.
- Science and technology studies.
- Environmental hazards and vulnerability.
- Human environment impacts.

These are the basis for addressing various topical foci (including urban environments, technologies and their consequences, landscapes, institutions and health and the environment).

The concentration in urbanism will leverage the varied interests in urbanism and help emerging scholars as they attempt to compare, contrast and take stock of urbanism. Working with faculty from across a range of departments and programs at ASU, doctoral students will be able to capture the creative tensions that scholarship on urbanism has inspired in order to stimulate a provocative, constructive kind of inquiry. Academic units the students might engage with to fulfill the requirements of the urbanism concentration include:

- Herberger Institute for Design and the Arts.
- School of Community Resources and Development.
- School of Geographical Sciences and Urban Planning.
- School of Government, Politics and Global Studies.
- School of Historical, Philosophical and Religious Studies.
- School of Human Evolution and Social Change.
- School of Sustainability.

The environmental social science program will train students to move into teaching and research positions, or to assume leadership roles in nongovernmental organizations, government or industry.

Course work for the degree is focused on developing real-world skills and a solid grasp of complex social science approaches to environmental issues. Students work closely with their committee to develop a curriculum appropriate to their chosen interests and career goals.

**Program Requirement:** All students entering the doctoral program in environmental social science must complete 84 credit hours. A suite of classes totaling 30 credit hours includes 18 hours of core classes in conceptual domains and topical foci. Additional hours come from one course each in research design and technical expertise and six hours of electives. Students may select from a substantial range of courses to satisfy noncore requirements.
For the concentration in urbanism, 15 of these credit hours will be selected from an approved list of applicable courses related to urbanism. These courses will include the core urbanism course, GCU 516, as well as one course from each of the four urbanism clusters:

1. Natural environment.
2. Built form.
3. Institutions and governance.
4. Culture and society.

Some of the environmental social science core courses also count toward the concentration in urbanism.

Students entering with a master’s will be granted up to 30 credit hours toward the 84-hour total required for the doctorate. Students without a master’s must earn an additional 30 hours of graduate credit, selecting courses from a number of appropriate programs on campus.

A written comprehensive examination and a dissertation prospectus with a defense are required of all doctoral students.

All students must earn 12 (and only 12) dissertation hours and may earn up to 12 research hours for a total of 24 hours to achieve the 84 hour total.

Admission Requirements: Applicants are required to have a bachelor’s degree from a regionally accredited institution with a GPA of 3.20 or higher (on a 4.00 scale) in the last two years of course work.

A master’s degree in any relevant field is advantageous for environmental social science students, or students can earn an master’s-in-passing as part of the environmental social science graduate program.

In addition to general requirements for admission to the Graduate College, the environmental social science doctoral program requires students to provide:

1. A statement of their interests and goals as a professional.
2. Three letters of recommendations.
3. A sample of their written work.
4. GRE scores.

While undergraduate work in one of the social sciences (e.g. geography, political science, sociology, anthropology, planning or history) is not required, some course work in the social sciences is advantageous for admission. Students may be required to take additional courses as noted at the time of admission if they lack an adequate background in the social sciences.

Contact:
School of Human Evolution & Social Change
Family and Human Development (MS) LAFAMHDMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Family and Human Development

Program Description: The program in family and human development is devoted to the study of families, children and youth. The program's research, teaching and service have direct meaning for the lives of children and adults and the families and communities in which they live.

The faculty share a common commitment to high-quality research that both increases the basic understanding of human and family development and has the potential to contribute to the improvement of the lives of children and families.

Program Requirement: Courses are selected by the student along guidelines of the specific areas, after consultation with the supervisory committee. The program of study should be completed and approved by the supervisory committee by the end of the second semester of full-time graduate study upon completion of 12 credit hours.

While a minimum of 33 credit hours is required, an individual plan of study may include more than 33 hours with the exact number determined by program requirements and the student’s supervisory committee. Acceptance of the proposed plan of study must be verified by signature of the student and committee members. After approval within the program or college, the plan of study is submitted to the Graduate College for final approval.

The following requirements must be met for the tracks in child development or family studies. All students must take the following courses: FAS 500, FAS 531, CDE 531, CDE 534 and PSY 530 (or equivalent with the approval of the graduate committee).

Child Development

The required courses are CDE 533 and six credit hours of CDE elective selected (with approval of the student’s advisor). Six credit hours of thesis work are also required.

Family Relationships

The required courses are FAS 539 and six credit hours of FAS electives (selected
with approval of the student's advisor). Six credit hours of thesis work are also required.

*Admission Requirements:* Admission to the M.S. in family and human development program is determined by the following criteria:

1. Official transcripts of all undergraduate and graduate course work.
2. Verbal, quantitative and analytical GRE scores.
3. Statement of goals relevant to the M.S. program.
4. Three letters of recommendation.
5. Application to the Graduate College.
6. A Test of English as a Foreign Language (TOEFL) score of at least 600 is required of all applicants whose native language is not English.

Applications, which are due Jan. 15, should be sent to:

Graduate Secretary  
Family and Human Development  
P.O. Box 873701  
Arizona State University  
Tempe, AZ 85287-3701

*Contact:*  
School of Social/Family Dynamics  
http://ssfd.clas.asu.edu/  
SSFD@asu.edu  
SS 144  
480/965-6978

**Family and Human Development (PhD) LAFAMSCPHD**  
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Family and Human Development

*Program Description:* The program in family and human development is devoted to the study of families, children and youth. The program's research, teaching and service have direct meaning for the lives of children and adults and the families and communities in which they live.

The faculty share a common commitment to high quality research that both increases the basic understanding of human and family development and has the potential to contribute to the improvement of the lives of children and families.

*Program Requirement:* Each student must prepare and submit a plan of study in conjunction with the chair and members of his or her supervisory committee during the first year in the program. The plan of study consists of a minimum of:

1. Eighty-seven credit hours for students entering after the bachelor's degree.
Of the 87 credit hours for a postbaccalaureate program, 6 hours are thesis and 12 hours are dissertation credit.

Postbaccalaureate students complete a master's-in-passing before advancing to their doctoral studies.

2. Fifty-seven credit hours for students entering after the master's degree.
   - Of the 57 credit hours of the post-master's program include 12 credit hours of dissertation.

3. The additional hours in both the postbaccalaureate and post-master's tracks involve courses in:
   - Family and human development.
   - Statistics and research methods.
   - A collateral area of study relating to family and human development.

Admission Requirements: Admission to the Ph.D. in family and human development is determined by the following criteria:

1. Official transcripts of all undergraduate and graduate course work.
2. Verbal, quantitative, and analytical GRE scores.
3. Statement of goals relevant to the Ph.D. program.
4. Three letters of recommendation.
5. Application to the Graduate College.

A Test of English as a Foreign Language (TOEFL) score of at least 600 is required of all applicants whose native language is not English.

Applications, which are due Jan. 15, should be sent to:

Graduate Secretary
Family and Human Development
P.O. Box 873701
Arizona State University
Tempe, AZ 85287-3701

Contact:
School of Social/Family Dynamics
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SS 144
480/965-6978

French Comparative Literature (MA) LAFRECLMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA French (Comparative Literature)
Program Description: The faculty in the School of International Letters and Cultures offer a graduate program leading to the M.A. in French with a concentration in comparative literature.

Program Requirement: A total of 30 credit hours of graduate work is required. Graduate students may take only 500-level courses for graduate credit. At least nine hours must be selected from those courses listed exclusively for graduate students. The program must include FRE 500 Bibliography and Research Methods (it is recommended that the candidate enroll in this course as early as possible); two courses in linguistics, civilization or translation (of which one must be in linguistics); and one course in critical or cultural theory.

For core courses, a minimum of four courses offered by the French section must be selected from any combination of the following categories: period courses, genre courses and Francophone studies courses. When approved by the graduate committee, up to six hours of related course work may be taken outside of French.

A student must achieve a GPA of "B" (3.00) or higher in all work specifically included in the program of study. Grades below a "C" (2.00) cannot be used to meet the requirements of a graduate degree. No student may accumulate more than one incomplete at any one time.

Independent study courses will be given only under exceptional circumstances and will not duplicate courses which are available. The French graduate committee is responsible for authorizing such work in cooperation with the individual professor. No more than six hours of independent study will be permitted.

The student must write a thesis dealing with a clearly defined literary topic bearing some relation to work done in the student’s classes. Students planning to teach at the secondary school level, may choose to complete an applied project.

The written examination for the concentration in comparative literature will be administered by the interdepartmental committee for comparative literature and will consist of two essay-based components: general concepts of comparative literature and problems of comparative literature.

Admission Requirements: Applicants must submit a Graduate College online application. Prerequisites for admission into the literature program include:

1. FRE 321 Introduction to French Literature: Medieval through the 18th century.
2. FRE 322 Introduction to French Literature: 19th and 20th centuries.
3. Two 400-level French classes, of which at least one must be a literature course.

Contact:
School of International Letters and Cultures
French Linguistics (MA) LAFRELINMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA French (Linguistics)

Program Description: The School of International Letters and Cultures offers a
ggraduate program in French leading to the degree of M.A. French with
concentrations in literature, linguistics or comparative literature. There is also an
M.A. program in secondary education with a major in French.

Program Requirement: The program of study for the M.A. includes:

- A minimum of 30 credit hours of graduate-level work, as approved by the
candidate’s supervisory committee.
- It has a thesis and an applied project option.
- The program must include a 500-level bibliography and research methods
course offered by the department.
- When approved by the candidate's supervisory committee, in some
programs, nine hours in another language or in closely related courses may
be included in the program.

Comprehensive Examination: All candidates are required to pass a
comprehensive written examination designed to evaluate the candidate's
knowledge in the area of specialization. A reading list, as agreed upon, serves as a
guide to prepare for this examination.

Admission Requirements: Candidates for the M.A. should, upon entrance, present the
equivalent of an undergraduate major in the language in which the degree is sought.
Those who lack this background but who show strong potential and meet Graduate
College admissions requirements may be admitted to a graduate program on a
provisional basis, pending removal of specified deficiencies. These deficiencies must
be completed in addition to the regular program of study for the master's degree.

Contact:
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silc@asu.edu
LL 440
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French Literature (MA) LAFRELITMA
College of Liberal Arts and Sciences
Official Degree Awarded: MA French (Literature)

Program Description: The School of International Letters and Cultures offers a graduate program in French leading to the degree of M.A. French with concentrations in literature, linguistics or comparative literature. There is also an M.A. program in secondary education with a major in French.

Program Requirement: The program of study for the M.A. includes:

- A minimum of 30 credit hours of graduate-level work, as approved by the candidate’s supervisory committee.
- It has a thesis and an applied project option.
- The program must include a 500-level bibliography and research methods course offered by the department.
- When approved by the candidate's supervisory committee, in some programs, nine hours in another language or in closely related courses may be included in the program.

Comprehensive Examination: All candidates are required to pass a comprehensive written examination designed to evaluate the candidate's knowledge in the area of specialization. A reading list, as agreed upon, serves as a guide to prepare for this examination.

Admission Requirements: Candidates for the M.A. should, upon entrance, present the equivalent of an undergraduate major in the language in which the degree is sought. Those who lack this background but who show strong potential and meet Graduate College admissions requirements may be admitted to a graduate program on a provisional basis, pending removal of specified deficiencies. These deficiencies must be completed in addition to the regular program of study for the master's degree.

Contact:
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Geographic Education (MAS) LAGEOEDMAS
College of Liberal Arts and Sciences

Official Degree Awarded: MAS Geographic Education

Program Description: The M.A.S. in geographic education is an online nonthesis degree program that provides teachers with the opportunity to obtain a highly qualified status in geographic education. The degree program is intended for K-12 teachers and is appropriate for elementary and secondary school teachers. Although the courses are completed online, there are two in-person meetings, including an orientation and a graduation event, where capstone projects are presented.
Program Requirement: The M.A.S. in geographic education program consists of:

1. Thirty credit hours taken completely online, with two one-day sessions required at the Tempe campus (orientation session and presentation of an applied project).
2. Students complete 24 credit hours in geography, a three-credit-hour course in educational research (COE 501 Introduction to Research and Evaluation in Education) and a three-credit-hour course on the applied project related to geographic education (SED 593 Applied Project or DCI 593 Applied Project). This culminating experience is required in place of a thesis.
3. A sample program of study for a full-time student is located at http://geography.asu.edu/masge-sampleprogram.
4. Students are required to have access to a computer with an internet connection and the capability to view video and animated files with sound (e.g. Flash, shockwave, mpeg, avi, etc.), access to e-mail and access to a word processing program (e.g. Microsoft Word).

Admission Requirements: In addition to the Graduate College admission requirements, prospective students must have a bachelor’s degree from a regionally accredited institution (or equivalent) in education, geography or related area with a minimum GPA of 3.00 (4.00 scale) or demonstrate a minimum of one year of related professional experience and successful completion of a bachelor’s degree from a regionally accredited institution (or equivalent) with a minimum GPA of 3.00 (4.00 scale). Applicants with a GPA below 3.00 can apply and may be accepted if they show substantial promise of success based on the candidate’s statement and letters of recommendation. Applicants to the degree program are accepted year-round for fall admission.

Contact:
School of Geographical Sciences and Urban Planning
http://geography.asu.edu/masge
geographyadvising@asu.edu
COOR 5673
480/965-7533

Geographic Information Science (Grad Certificate) LAGEOGISCE
Official Degree Awarded: CERT Geographic Information Science (certificate)

Program Description: Under the auspices of the School of Geographical Sciences, the interdisciplinary certificate program in geographic information science (GIS) is administered by an executive committee. The objective of this program is to enable ASU graduate students and GIS professionals to learn how to apply GIS concepts and technology for the purpose of spatial analysis.

Program Requirement: A minimum of 16 credit hours consisting of three required and two elective courses (three credit hours each) plus a capstone seminar (one-credit-hour) is required to complete the GIS certificate.
Admission Requirements: All applicants to the certificate program must submit the Graduate College online application. Current graduate students receive priority admission to the certificate program. Students qualify for admission to the certificate program by maintaining good standing in a cooperating department and completing an application specific to the GIS certificate. Practicing professionals who already hold a graduate degree furnish proof of an advanced degree by a formal transcript to the Graduate College. Prospective students must complete prerequisites listed for the level-one required course or pass a proficiency test.

Contact:
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geographyadvising@asu.edu
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Geographic Information Systems (MAS) LAGISMAS
College of Liberal Arts and Sciences

Official Degree Awarded: MAS Geographic Information Systems

Program Description: The M.A.S. in geographic information systems (GIS) program is a compact one-year nonthesis degree fostering advanced study in management and the use of GIS technology in public and corporate environments. The degree meets important educational needs of working professionals and recent college graduates seeking to improve their career standing.

The program provides a comprehensive professional degree that balances work in the theoretical aspects of GIS, the technical side of the discipline, and the applications domain. Students are exposed to cutting edge technology, management theory and practice, and several societal dimensions associated with the application of GIS technology.

Courses are held in the evenings and on weekends, the curriculum is highly adaptable to the work environment, and thus the M.A.S. degree is achievable in a one-year time period.

Program Requirement: This degree program requires 30 credit hours and an applied project. Enrolling students must complete three sequential semesters of course work totaling 30 graduate credit hours.

- The first semester, offered during the fall, is composed of six two-credit-hour modules, which are not transferable.
- Students in the spring semester must complete four three-credit-hour courses.
During the final semester, offered through the eight-week summer sessions, students must complete three semester hours of GIS internship and a three-credit-hour capstone course.

Admission Requirements: In addition to Graduate College admission standards, prospective students seeking the degree must have successfully completed a bachelor’s degree in a related area with a minimum GPA of 3.00 (4.00 scale); or demonstrate a minimum of three years of related professional experience and the successful completion of a bachelor’s degree in an unrelated area as determined by the M.A.S.-GIS steering committee.

- Applicants must submit two letters indicating support from any combination of current/former instructors, supervisors or professionals currently employed within GIS or a related discipline.
- Applicants must prepare a formal, written statement regarding relevant academic experience, professional experience and overall interest in GIS.

Application materials for the coming academic year are accepted and reviewed on a rolling basis until June 30. Applicants are notified of their status within six weeks of receipt of their application materials.

Contact:
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Geography (MA) LAGEOGMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Geography

Program Description: The M.A. in geography program is designed to offer specialized academic and professional training in geography so that the student may secure a sound graduate background for further specialization or for immediate employment. The program has sufficient flexibility to allow for individual needs and the interests of the student. A minimum of 30 credit hours beyond the bachelor’s degree is required. At least 24 credit hours must be in geography.

Program Requirement: The School of Geographical Sciences may consider a student for a traditional master’s degree that includes the successful defense of a thesis. Master’s students must complete 30 credit hours including 24 credit hours of combined course work and research hours at ASU and a 6-credit-hour thesis. The master’s program includes two required courses (GCU 529 Geographic Thought and GCU 585 Advanced Research Methods) and additional course work or research hours as selected by the student in consultation with an advisory committee.
Admission Requirements: Applicants must submit the Graduate College online application. Applications for the M.A. program must be accompanied by the applicant's scores on the GRE (verbal and quantitative) and three letters of recommendation from professors. All applications are reviewed by the graduate recruiting and admissions committee and the director of the School of Geographical Sciences.

It is presumed that all students entering the master’s program have an adequate background in geography, including course work that is the equivalent of GPH 371 Introduction to Cartography and Georepresentation and GCU 495 Quantitative Methods in Geography. Additional prerequisite course work is required of students insufficiently prepared in geography.

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Geography (PhD) LAGEOGPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Geography

Program Description: The Ph.D. program provides specialized academic and professional training in geographical sciences so that the student can secure a sound background for further research and teaching and for immediate employment.

Program Requirement: This degree program requires 84 credit hours, a dissertation, a written comprehensive examination and an oral comprehensive examination.

Ph.D. students entering with a bachelor’s degree must complete 84 credit hours. These hours include 72 credit hours of course work and research at ASU and 12 dissertation hours. Entering students without a master’s degree can earn a master’s-in-passing upon the completion of 30 credit hours at ASU, including GCU 529 Geographic Thought, GCU 585 Advanced Research Methods and one seminar (GCU/GPH 591), and passing the School’s Research and Field Examination.

Ph.D. students entering with a master’s degree must complete 54 credit hours. These include 42 credit hours of combined course work and research hours at ASU and 12 dissertation hours. The Ph.D. program includes two required courses (GCU 529 Geographic Thought, GCU 585 Advanced Research Methods), two seminars (GCU/GPH 591) and additional course work or research hours as selected by the student in consultation with an advisory committee.
Admission Requirements: Applicants must submit the Graduate College online application.

The School of Geographical Sciences admits students to its Ph.D. program with either a master's or a bachelor's degree in geography or a related field. We welcome applicants without geography degrees. Incoming students must demonstrate or attain competence in cartography and quantitative methods and complete other basic coursework that will enable them to pursue graduate studies in their area of specialization.

Applications for the Ph.D. program must be accompanied by the applicant's scores on the GRE (verbal and quantitative) and three letters of recommendations from professors. All applications are reviewed by the graduate recruiting and admissions committee and the director of geographical sciences.

Contact:
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Geological Sciences (MNS) LANATSCIMN
College of Liberal Arts and Sciences

Official Degree Awarded: MNS Natural Science (Geological Sciences)

Program Description: The School of Earth and Space Exploration participates in the program leading to the M.N.S. in geological sciences. This interdisciplinary degree is designed to meet the needs of professionals seeking a graduate level degree. The program offers the opportunity for interdisciplinary graduate training in the natural sciences (biological sciences, mathematics and physical sciences) and cognate areas.

The degree program is especially suited for individuals who desire professional training rather than research training. Because of designed flexibility, the degree also offers the opportunity for individualized professional graduate programs depending upon the backgrounds and goals of the students. Students are expected to emphasize course work in two or more areas of concentration. The program must be interdisciplinary.

Program Requirement: The M.N.S. in geological sciences requires 30 credit hours and an applied project. The supervisory committee, consisting of three faculty members, is appointed by the dean of the Graduate College upon the recommendation of the chair of the academic unit in which the graduate advisor serves as a faculty member. The supervisory committee is formed soon after the student has been admitted to the degree program. The graduate advisor and student suggest names of persons to serve on the supervisory committee. The composition
of the supervisory committee must reflect the interdisciplinary nature of the program.

A program of study is recommended by the supervisory committee after conferring with the student. While the minimum number of credit hours required for the degree is 30, more may be required by the supervisory committee depending upon the background of the student and the nature of the proposed program. In some cases undergraduate courses may be required to remove deficiencies. A thesis is optional. A final written or oral examination, or both, is required. Each examination is administered by the supervisory committee.

Admission Requirements: See admission to the Graduate College. A prerequisite for admission is the availability of resources in the School of Earth and Space Exploration and having a faculty member in the school serve as a graduate advisor. The submission of scores on the GRE (verbal, quantitative and analytical) is required of all applicants.

Contact:
Department of Geological Sciences
http://sese.asu.edu/
seseinfo@asu.edu
PSF 686
480/965-5081

Geological Sciences (MS) LAGEOSCMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Geological Sciences

Program Description: The M.S. in geological sciences program is administered by the School of Earth and Space Exploration. The program is designed to provide fundamental graduate training in geology and to prepare the student for certain careers in geology, geophysics, geochemistry, planetary geology and related fields, or for further graduate study.

Program Requirement: The M.S. consists of a minimum of 30 credit hours of work beyond the bachelor’s degree; 20 or more credit hours consist of course work other than research and thesis. The student, with the approval of the advisor and supervisory committee (formed upon enrollment), selects courses that make a coherent program of study.

Each M.S. candidate must include on the program of study one hour of GLG 500 RM: Geology Colloquium and six hours of GLG 592 Research and GLG 599 Thesis, at least three of which must be GLG 599 Thesis. A maximum of six credit hours of thesis may appear on a program of study. One-half of the credit hours applicable toward the degree must be in geological sciences courses; the remainder may include work either in geological sciences or in related fields.
**Thesis Requirements:** A research-based thesis is required. The final examination is an oral defense of that thesis.

**Admission Requirements:** Applicants must submit the Graduate College online application.

Students applying for admission to the geological sciences M.S. program must submit:

1. GRE scores (verbal, quantitative and analytical).
2. Official transcripts.
3. Three letters of recommendation.

The deadline for applications for the fall term is Jan. 5.

**Contact:**
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**Geological Sciences (PhD) LAGEOSCPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Geological Sciences

**Program Description:** The Ph.D. in geological sciences program is administered by the School of Earth and Space Exploration. The program is designed to develop creative scholarship and to prepare the student for a professional career in the geological sciences including geology, geophysics, geochemistry, planetary geology and related fields.

**Program Requirement:** This degree program requires 84 credit hours, a dissertation, a written comprehensive examination and an oral exam. The program of study for the Ph.D. is selected with the recommendation of the student’s supervisory committee. Each program of study must include 24 credit hours of research and dissertation. ASU Graduate College policies and procedures must also be met for admission into the program and for fulfilling the degree requirements.

**Foreign Language Requirements:** None.

**Comprehensive Examination:** Ph.D. candidacy is earned on the basis of a written component and an oral component. The written examination is in the form of two written research projects. The oral exam consists of an oral defense of the two projects.
Dissertation Requirements: A dissertation is required that is based on original work demonstrating creativity in research and scholarly proficiency in the subject area.

Final Examination: A final oral examination in defense of the dissertation is required.

Admission Requirements: Applicants must submit a Graduate College online application. Students applying for admission to the Ph.D. in geological sciences program must also submit scores on the GRE (verbal, quantitative and analytical) in addition to transcripts, three letters of recommendation and a statement of purpose. The deadline for applications for fall semester is Jan. 5.

Students may be admitted to the program with a bachelor’s or master’s degree in a related field. Up to 30 credit hours of master's-level course work in a related field can be accepted toward fulfillment of the Ph.D. requirements.

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German (MA) LAGERMMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA German

Program Description: The faculty in the School of International Letters and Cultures offers graduate programs leading to the M.A. degree with a major in German. Students admitted to the M.A. program with a major in secondary education may elect German as their subject matter field.

Program Requirement: The program of study for the M.A. includes a minimum of 30 credit hours of graduate-level work and a thesis, as approved by the candidate’s supervisory committee. The program must include a 500-level bibliography and research methods course offered by the department. When approved by the candidate’s supervisory committee, nine hours in another language or in closely related courses may be included in the program.

Comprehensive Examination: All candidates are required to pass a comprehensive written or oral examination designed to evaluate the candidate’s knowledge in the area of specialization. In lieu of a traditional thesis for an M.A. in German, a student may opt for a nonthesis project. Candidates for the M.A. in German will be provided with a current graduate student handbook.
Admission Requirements: Students interested in applying for this program must submit a Graduate College online application. Candidates for the M.A. should, upon entrance, present the equivalent of an undergraduate major in the language in which the degree is sought. Those who lack this background, but who show strong potential and meet Graduate College admissions requirements, may be admitted to a graduate program on a provisional basis, pending removal of specified deficiencies. These deficiencies must be completed in addition to the regular program of study for the master’s degree.

Contact:
School of International Letters and Cultures
http://silc.asu.edu/graduate
silc@asu.edu
LL 440
480/965-6281

History (MA) LAHISTMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA History

Program Description: The faculty in the Department of History offer a graduate program leading to the M.A. in history. Candidates are offered an opportunity to develop knowledge of a specific historical field, to study comparative history and to learn research techniques.

Program Requirement: A minimum of 30 credit hours of graduate studies are required for a master’s degree in history: 24 credit hours of course work, plus six hours of thesis research credits (HST 599). With the approval of the supervisory committee, candidates may take up to six credit hours of closely related course work in another academic unit.

Master’s students select a primary field and a research specialization. Available primary fields include:

- North America.
- Europe.
- East/Southeast Asia.
- Latin America.
- Public history. Note: public history students pursue a double concentration, e.g. public history and North American history, or public history and European history. For public history information and requirements see http://history.clas.asu.edu/publichistory.

Advising: At the beginning of the first semester of study, the student, in consultation with the graduate director, selects a faculty advisor who will help direct the student to the completion of the required course work. Normally, the
advisor is selected, at least tentatively, prior to enrollment or within the first six weeks of the fall semester. The faculty advisor helps the student select the other two members of the supervisory committee and together they develop the program of study. The advisor, with the candidate, is primarily responsible for determining the program of study, selecting the topic of the thesis or of the thesis equivalent, and guiding the student’s research. The second and third committee members must be selected by the time the program of study is submitted at the end of the first year.

**Thesis:** The culminating experience of the master’s degree program is the writing, presentation and defense of a thesis based on an original research project. The thesis, an extended essay of approximately 100 pages, addresses a topic chosen by the student in consultation with the faculty advisor who serves as chair of the supervisory committee. The thesis explores a limited subject in depth, analyzing, explaining and drawing conclusions from the information gleaned from primary and secondary sources. The thesis thereby demonstrates the student’s ability to do research in the primary sources of the field, survey and synthesize the relevant secondary literature on the topic, organize and develop a topic, analyze and argue points cogently and write proficiently.

**Admission Requirements:**

1. Graduate College online electronic application: Students applying to a degree program such as the master’s program and the scholarly publishing certificate program are required to submit two separate applications (an application for the degree program and one for the certificate program).
2. Transcripts: Submit official transcripts to the Graduate College. The Department of History will accept unofficial copies.
3. GRE scores: A report of the scores received on the GRE must be submitted to the Graduate College. Scores should be no more than five years old.
4. Letter of application: Address a letter of about 500 words in length to the history department explaining the applicant’s interest in graduate study at ASU, the geographic and thematic areas of emphasis the student is planning to pursue and a statement of career goals. Upload the letter into the online application.
5. Résumé: The applicant must upload a resume into the online application.
6. Data form: The applicant must upload a data form into the online application.
7. Writing sample: The applicant must submit a sample of written work. The writing sample may be an article (published or unpublished), a research paper or any other extended sample of the applicant’s expository skill no longer than 35 pages in length. Longer writing samples should not be submitted without first consulting the graduate director. Large files should be submitted as .txt files.
8. Assistantship application: The application form for a graduate assistantship is optional.
9. Reference letters: The applicant must submit at least three letters of reference from faculty or others qualified to speak to the suitability for graduate study.

10. Students applying from outside the United States whose native language is not English must follow Graduate College guidelines demonstrating English language proficiency. See http://graduate.asu.edu/admissions/international.html#credentials.

Contact:
School of Historical and Critical Inquiry
http://history.clas.asu.edu
graduate.history@asu.edu
COOR 4481
480/965-3226

**Immigration Studies (Grad Certificate) LAIMMSTUCE**

**Official Degree Awarded:** CERT Immigration Studies (Certificate)

**Program Description:** The immigration studies graduate certificate program provides students with an understanding of the causes and consequences of international migration as well as relevant professional and research training opportunities. The program prepares graduates for future study in graduate and professional schools or for careers as immigration practitioners and advocates in non-governmental organizations, local and federal government agencies, as well as other private and public institutions serving immigrant and refugee communities. The objective of the certificate program is to offer both traditional academic training through course work and research and practical experience working with local immigrant/refugee communities.

**Program Requirement:** The certificate consists of 15 total credit hours, of which 12 hours will be course work and three hours will be either an internship or a research project. All students will be required to take either ASB 570 Immigration to the United States, JUS 555 Immigration and Justice or SOC 591 Sociology of Immigration as a core course. Students will also take three approved elective courses on immigration. For a list of approved electives, please contact the school.

Students will be required to complete a three-credit culminating experience, which can be an internship or a research paper.

**Internship:** Students may do an internship with Phoenix-based, nongovernmental organizations or government agencies that provide services to immigrants and refugees. Such internships will give them professional training and actual experience working with immigrant/refugee communities. They can be arranged for academic credit through CLASWorks Internship Program (ABS 584). Students will be required to write a 10- to 15-page report describing the organization and its specific internship work, as well as assessing the effectiveness and impact of the organization and/or
students can also use their internship experience in order to describe and analyze an issue facing immigrants and their communities.

Research: Students may enroll in three credits of research with a faculty member in order to do an independent research project. They must write a substantial research paper based on field research in a local immigrant community, library/archival research or readings on an immigration topic.

Certificate students may choose to specialize in the social sciences, the humanities, or Mexican and Latino immigrants in the U.S. Although the program emphasizes Latino immigration, given the nature of the immigration courses offered at ASU and the preponderance of Latino immigrant communities in the Phoenix area. Students will have the opportunity to take broader courses focusing on global migration and other immigrant groups, as well as work with local Asian/Southeast Asian immigrants and refugee communities.

All requirements for the certificate program should be completed within a three-year time limit with a cumulative grade point average of at least 3.00. Students who require more time to finish the program (because of their part-time status or lack of desirable/available courses) must obtain approval from the executive committee.

For students currently enrolled in an ASU graduate degree program, applicable certificate courses may count towards their degree program with the approval and consent of the degree granting program. For certificate students who are later admitted to an ASU graduate degree program, up to 12 credit hours from the certificate program may count towards their doctoral degree or up to nine credit hours may count towards their master’s degree with the approval and consent of the degree-granting program.

Admission Requirements: All applicants must complete the Graduate College online application form and meet the following criteria:

1. Earned a bachelor’s degree from a regionally accredited institution or an international equivalent credential.
2. Have achieved a minimum GPA of 3.00 in the last 60 hours of their bachelor’s degree.
3. Meet all Graduate College admission criteria.

Contact:
School of Human Evolution & Social Change
http://shesc.asu.edu/immigration_studies_certificate
shescgrad@asu.edu
SHESC 233
480/965-6213
Infant - Family Practice (MAS) LACDEMAS
College of Liberal Arts & Sciences

Official Degree Awarded: MAS Infant Family Practice

Program Description: This self-contained accelerated program provides high-quality course work and supervised internship experiences designed to train professionals to work in prevention and intervention programs serving families with infants, toddlers and preschool-age children.

The program prepares individuals for positions in a variety of professional capacities including child abuse prevention, infant mental health, early intervention, family support and child care and early childhood administration.

Course work prepares students for professional endorsement by the Infant-Toddler Mental Health Coalition of Arizona’s Endorsement for Culturally Sensitive, Relationship-Based Practice Promoting Infant Mental Health.

Program Requirement: The M.A.S. in infant-family practice requires the successful completion of a minimum of 30 credit hours, and an applied project, including required course work and an internship in a community placement approved by the M.A.S. in infant-family practice faculty. Internships are expected to last approximately 12 months. Students must maintain a GPA of 3.00 in all course work and satisfactorily meet the expectations of the agency supervising their internship.

Foreign Language Requirements: None

Thesis Requirements: None

GRE Scores: GRE scores are waived for this program.

Admission Requirements: Applicants must submit the Graduate College online application.

Admission to the program is determined by the following criteria:

1. Admission to the ASU Graduate College.
2. Three letters of recommendation from individuals familiar with the applicant’s academic background.
3. Official transcripts of the student’s academic record.
4. A personal statement.

In addition, selected candidates will be contacted for an interview.

Contact:
School of Social/Family Dynamics

Academic Catalog Archive 2009-10  493
Justice Studies (MS) LAJUSSTMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Justice Studies

Program Description: The M.S. in justice studies is designed to prepare students for professional positions in justice-related organizations, for teaching in community colleges and for further study and research in the justice field.

Areas of Study
Students use elective courses to develop a specialization in an area relevant to their own interests and consistent with the school's focus on the following areas:

- Citizenship, migration and human rights.
- Globalization, sustainability and economic justice.
- Law, policy and social change.
- Media, technology and culture.
- Social identities and communities.

Program Requirement: The M.S. program has two options: a thesis or an applied project.

Thesis option
The thesis option requires the completion of 36 credit hours, six of which are JUS 599 Thesis. To satisfy the thesis requirement for the degree, candidates must write a thesis and defend it in an oral examination conducted by the student's advisory committee.

Applied project option
The applied project option requires the completion of 36 credit hours, six of which are JUS 593 Applied Project. Candidates pursuing the applied project option must present their applied project and defend it in an oral examination conducted by the faculty member who supervises the project and the graduate programs director or designated representative. The applied project typically includes a brief literature review to identify the nature of the issue or problem and a description of the methodology used and, if relevant, of the program studied, followed by an analysis.

Each student's program is developed in concert with the advisory committee. The program of study has three major categories: foundation courses, elective courses and thesis and applied project requirements. The required foundation courses provide students with a fundamental understanding of the theories, methods and analytic techniques associated with the study of justice. The foundation courses
Admission Requirements: In addition to the general admission requirements of the Graduate College, applicants must submit all of the following materials by Dec. 14 for fall admissions:

1. GRE scores or LSAT score taken within the last five years.
2. Transcripts.

Send these materials to:

Graduate College
Arizona State University
P.O. Box 871003
Tempe, AZ 85287-1003

Applicants must submit these items directly to the School of Justice and Social Inquiry by the same deadline:

1. Personal statement (800 to 1000 words) outlining areas of interest, educational and career goals.
2. Three letters of recommendation (academic, if possible).
3. A writing sample.

Send these materials to:

School of Justice and Social Inquiry Graduate Programs
Arizona State University
P.O. Box 870403
Tempe, AZ 85287-0403

Contact:
School of Social Transformation
http://sjsi.clas.asu.edu
graduate.justice@asu.edu
WILSN 217
480/965-6008

Justice Studies (PhD) LAJUSSTPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Justice Studies
Program Description: The doctoral program in justice studies is an interdisciplinary degree program offered through the auspices of the School of Justice and Social Inquiry. The program integrates philosophical, legal and ethical approaches with social science and humanities perspectives to study five areas of interest:

- Citizenship, migration and human rights.
- Globalization, sustainability and economic justice.
- Law, policy and social change.
- Media, technology and culture.
- Social identities and communities.

The School of Justice and Social Inquiry is recognized as a leader in the interdisciplinary study of justice and a pioneer in the establishment of a full-fledged program in the field.

Program Requirement: This degree program requires 84 credit hours, a dissertation and a written comprehensive examination. The doctoral program requires that students complete three foundation courses as a part of their course work for the Ph.D. in justice studies. Students must earn a grade of “B” (3.00) or higher in each of the foundation courses:

- JUS 620 Justice Research Methodology (3)
- JUS 630 Data Analysis for Justice Research (3) or JUS 650 Advanced Qualitative Data Analysis (3)
- JUS 640 Theoretical Perspectives on Justice (3)

Students entering the doctoral program with a master's or J.D. degree are required to complete 54 credit hours:

1. Twelve credit hours are earned as dissertation research.
2. Nine hours as Ph.D. core courses.
3. Fifteen credit hours as elective course work.
4. Eighteen credit hours are comprised of any combination of additional elective courses, reading or conference hours, or research hours.

Students entering the doctoral program without a master's or JD degree are required to complete 84 credit hours:

1. Twelve credit hours are earned as dissertation research credit.
2. Twelve credit hours as 500-level foundation courses.
3. Nine credit hours as required Ph.D. courses.
4. Twenty-four credit hours as elective credit.
5. Twenty-seven credit hours are comprised of any combination of additional elective courses, reading and conference hours or research hours.
Admission Requirements: In addition to the general admission requirements of the Graduate College, applicants must submit the following materials by Dec. 14 for fall admissions:

1. GRE scores or LSAT score taken within the last five years
2. Transcripts

Send these materials to:
Graduate College
Arizona State University
P.O. Box 871003
Tempe, AZ 85287-1003

Applicants must submit these items directly to the School of Justice and Social Inquiry by the same deadline:

1. A personal statement (800-1000 words) outlining areas of interest, educational and career goals.
2. Three letters of recommendation (academic, if possible).
3. A writing sample.

Send these materials to:
School of Justice and Social Inquiry Graduate Programs
Arizona State University
P.O. Box 870403
Tempe, AZ 85287-0403

Contact:
School of Social Transformation
http://sjsi.clas.asu.edu
graduate.justice@asu.edu
WILSN 217
480/965-6008

Kinesiology (PHD) LAKINEPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Kinesiology

Program Description: The Ph.D. in kinesiology is an individualized, interdisciplinary program that integrates graduate courses from a variety of academic units to provide a sound foundation for research leading to a dissertation. Topics for these dissertations come from one of five research areas:

- Biomechanics.
- Motor behavior.
- Physiology of exercise.
- Exercise/health psychology.
• Human physiology.

Program Requirement: The program of study consists of a minimum of 84 credit hours of graduate credit for applicants holding a bachelor’s degree (54 credit hours of graduate work beyond the master’s degree). Of the 84 credit hours, at least 42 credit hours (which may include research credit) of the approved Ph.D. program, and 12 dissertation credit hours must be completed after admission to a Ph.D. program at ASU. An individual program of study is selected in consultation with the student’s supervisory committee. The program of study reflects the interdisciplinary nature of the degree program.

Admission Requirements: In addition to meeting Graduate College requirements, students must submit to the Department of Kinesiology director, in care of the graduate studies committee:

1. A letter designating a potential area of interest, the name of a potential mentor or mentors (from the list of faculty) and a statement of career goals.
2. GRE scores (verbal, quantitative and writing).
3. A professional résumé.
4. Three letters of recommendation.
5. A Test of English as a Foreign Language (TOEFL) score for all applicants whose native language is not English.

Admission decisions are based on the compatibility of the applicant’s career goals with the purpose of the degree program, previous academic training and performance, GRE scores, recommendations, and match of research interests to those of available mentors.

To be considered for research or teaching assistantships, all application materials should be received before Dec. 1. Application materials are due before Aug. 1 for admission in the spring.

Contact:
Department of Kinesiology
http://kinesiology.clas.asu.edu/
kinesgraduate@asu.edu
PEBW 218
480/965-3875

Liberal Studies (MLSt) LAMLSMLS
College of Liberal Arts and Sciences

Official Degree Awarded: MLSt Liberal Studies

Program Description: The M.L.St. offers students interested in a multidisciplinary approach to human ideas and values an opportunity to expand their liberal arts background. The program is intended for students seeking a graduate degree that explores the integration of the humanities with political, religious, social and
scientific questions within their cultural contexts. The program connects students to the entire College of Liberal Arts and Sciences and integrates the disciplines.

**Program Requirement:** This program requires 30 credit hours and an applied project. Students are required to take three core classes, six electives and an applied project. We offer four core classes and students select any three of the four offered.

**Core Courses (three hours each):**

- MLS 501 Writing About Social Issues
- MLS 502 Religion, Health and Culture
- MLS 503 Ethics, Science and Culture
- MLS 504 Film and Media Studies

**Electives:**

18 hours of electives, no more than nine in the same department.

**Emphasis areas available:**

- Science, nature and creative nonfiction writing
- Gender, religion and culture
- Borders: migration, health and cultural identity

**Admission Requirements:** Applicants must submit the Graduate College online application.

**Contact:**
Dean, College of Liberal Arts and Sciences  
http://clas.asu.edu/liberalstudies/mls  
SS 214  
480/727-0819

**Official Degree Awarded:** MLSt Liberal Studies (Film and Media Studies)

**Program Description:** The M.L.St. in film and media studies offers students interested in a multidisciplinary approach to human ideas and values an opportunity to expand their liberal arts background through the study of film and media in society. The program is intended for students seeking a graduate degree that explores the integration of the humanities with political, religious, social and scientific questions within their cultural contexts. Studies focus on the aesthetics and theory of film and media. The program connects students to the entire College of Liberal Arts and Sciences and integrates the disciplines.
Program Requirement: This degree program requires 30 credit hours and an applied project. Students are required to take three core classes, six electives and an applied project. We offer four core classes and students select any three of the four offered.

Core Courses (three hours each):

- MLS 501 Writing About Social Issues
- MLS 502 Religion, Health and Culture
- MLS 503 Ethics, Science and Culture
- MLS 504 Film and Media Studies

Electives:

18 hours of electives

Admission Requirements: Applicants must submit a Graduate College online application.

Contact:
Dean, College of Liberal Arts and Sciences
http://clas.asu.edu/liberalstudies/mls
SS 214
480/727-0819

Linguistics (Grad Certificate) LALINGUICE
Official Degree Awarded: CERT Linguistics (certificate)

Program Description: This interdisciplinary graduate certificate in linguistics offers students in several fields the opportunity to gain an understanding of the way in which languages are structured, how they are acquired and how they vary over time, space, social distance and situational contexts.

The skills acquired through the completion of the core courses for this certificate include analytical abilities, critical thinking, problem solving and communication skills. In addition, the knowledge acquired in the areas of discourse analysis and pragmatics makes students aware of the necessity to use appropriate registers and styles when creating written documents or oral presentations to different audiences.

Program Requirement: This certificate program requires 18 credit hours of course work. The required nine credit-hour core of the certificate consists of courses in phonology, syntax and discourse analysis/pragmatics. The other three courses (nine credit hours) may be chosen from fields such as second language acquisition, applied linguistics, sociolinguistics, computer science, education, language and culture.

Prerequisite: Introductory course in linguistics (taken at the upper-division or
graduate level, e.g., FLA 400/598, LIN 510, ASB 480/598 or equivalent). All certificate course work must be completed with an average grade of “B” (3.00) or higher.

**Admission Requirements:** Applicants must submit the Graduate College online application and also apply to the English department by submitting:

1. A one- to two-page, a well-considered statement of purpose detailing the student’s background and reasons for wanting to complete the linguistics certificate and photocopies of transcripts. Once the application is complete, certificate program staff will contact the applicant to arrange an appointment with the certificate faculty advisor.

2. Students must submit a copy of official transcripts from an undergraduate degree institution attesting to the completion of the bachelor's degree from a U.S. accredited institution or equivalent and/or showing any courses to meet the language requirement and any core and/or elective courses already taken toward the certificate. Proof of a complete bachelor’s degree is only required of students admitted to the certificate program while being nondegree graduate students. Students who apply to the graduate certificate in linguistics and are admitted to ASU as nondegree graduate students will be denied admission to the certificate program if they do not hold a bachelor’s degree (or equivalent) from a regionally accredited institution or equivalent.

3. Graduate students who have already been admitted to an ASU degree program will have already had their undergraduate credentials verified and no additional verification will be required.

**Contact:**
Department of English
http://english.clas.asu.edu/gradstudies-lingcert
enggrad@asu.edu
LL 543B
480/965-3194

**Marriage and Family Therapy (MAS) LAMFTMAS**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MAS Marriage and Family Therapy

**Program Description:** The purpose of this self-contained accelerated program is to provide high quality course work and supervised internship experiences that meet the degree requirements for licensure in the State of Arizona to practice marriage and family therapy as determined and laid out by the Arizona Board of Behavioral Health Examiners. The degree requirements are specified by the board and the program a designed to train practitioners who wish to practice marriage and family therapy.

**Program Requirement:** The M.A.S. in marriage and family therapy program requires the successful completion of a minimum of 39 credit hours, and applied project,
including required course work and completion of 300 client-contact hours in a community internship placement approved by the M.A.S. in marriage and family therapy faculty. Internships are expected to last approximately 12 months. Students must maintain a GPA of 3.00 in all course work and satisfactorily meet the expectations of the agency supervising their internship.

**Foreign Language Requirements:** None

**Thesis Requirements:** None

**GRE Scores:** GRE scores are waived for this program.

**Transportation:** Students are required to have a vehicle and a valid Arizona driver’s license for internship placement.

**Oral Internship Examination:** An internship entrance examination to demonstrate readiness for internship placement will be held at the end of the first eight-week semester.

**Admission Requirements:** Applicants must submit the Graduate College online application.

Admission to the program is determined by the following criteria:

1. Admission to the ASU Graduate College.
2. Three letters of recommendation from individuals familiar with the applicant’s academic background.
3. Official transcripts of the applicant’s academic record.
4. A personal statement.

**Contact:**
School of Social/Family Dynamics
http://ssfd.clas.asu.edu/
ssfd@asu.edu
SS 144
480/965-6978

**Mathematics (MA) LAMATHMA**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MA Mathematics

**Program Description:** The M.A. is designed to increase mathematical knowledge beyond the traditional bachelor’s degree in order to prepare students for careers requiring sophisticated mathematical skills. Students may choose to specialize in core mathematics areas, applied mathematics, statistics or mathematics education.

**Program Requirement:** The degree program requires:
1. Thirty credit hours of math or math related graduate course work.
2. Six of the 30 credit hours must consist of thesis (599).
3. The student must also complete a qualifying examination (MAT or STP prefix) or complete two sequences of qualifying courses (APM, MAT or STP prefix) with a minimum of 3.25 GPA.
4. A final oral examination in defense of the thesis. See the department Web site for examination information.

**Nonthesis Option**

The degree program requires:

1. Thirty credit hours of math or math related graduate course work.
2. Students must pass two qualifying examinations (MAT or STP prefix), or one qualifying examination (MAT or STP prefix).
3. Pass three APM courses with a minimum 3.0 GPA, or pass five APM core courses with a minimum 3.00 GPA. See the department Web site for examination information.

**Admission Requirements:** Applicants must submit the Graduate College online application. Minimum background for consideration of admission to the master’s program includes:

- A bachelor’s degree in mathematics or a closely related area with a 3.00 GPA (4.00 scale).
- Course work in linear algebra (equivalent to ASU course MAT 342).
- Advanced calculus (equivalent to ASU course MAT 371).

**Contact:**
School of Mathematical and Statistical Sciences
http://math.la.asu.edu/
grad@math.la.asu.edu
PSA 216
480/965-3951

**Mathematics (MNS) LAMATHMNS**
College of Liberal Arts and Sciences

**Official Degree Awarded:** MNS Natural Science (Mathematics)

**Program Description:** The M.N.S. offered by the Department of Mathematics and Statistics is for students interested in an interdisciplinary program with a major emphasis in mathematics and a minor emphasis in a related subject such as biology, engineering, education or economics.

**Program Requirement:** The degree program requires:
1. Thirty-six credit hours of graduate course work. Twelve of those credit hours must consist of coordinated graduate study outside the Department of Mathematics and Statistics.

2. Students must either pass one qualifying examination (MAT or STP prefix) or receive a minimum GPA of 3.00 in four courses of two qualifying sequences (APM, MAT, to STP prefix).

3. Under special circumstances a student may instead pass a written comprehensive examination. See the department Web site for examination information.

**Admission Requirements:** Applicants must submit the Graduate College online application. Minimum background for consideration of admission to the M.N.S. program includes:

- A bachelor's degree in mathematics or a closely related area with a 3.00 GPA (4.00 scale).
- Course work in linear algebra (equivalent to ASU course MAT 342).
- Advanced calculus (equivalent to ASU course MAT 371).

**Contact:**
School of Mathematical and Statistical Sciences
http://math.la.asu.edu/
grad@math.la.asu.edu
PSA 216
480/965-3951

**Mathematics (PhD) LAMATHPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Mathematics

**Program Description:** The Ph.D. is intended for students with superior mathematical ability. It emphasizes a solid mathematical foundation and promotes creative scholarship in mathematics and its many related disciplines.

**Program Requirement:** Ph.D. students must complete 84 credit hours of course work which must include:

1. Twelve credit hours of dissertation (799).
2. Students must pass two qualifier examinations, a written comprehensive examination and an oral comprehensive examination.
3. Each student must write a dissertation and defend it orally in front of five dissertation committee members. See the department Web site for examination information.

**Admission Requirements:** Applicants must submit the Graduate College online application. Minimum background for consideration of admission to a graduate program in mathematics includes a bachelor's degree in mathematics or a closely
related area with a 3.00 GPA and course work in linear algebra (MAT 342) and advanced calculus (MAT 371).

Contact:
School of Mathematical and Statistical Sciences
http://math.la.asu.edu/
grad@math.la.asu.edu
PSA 216
480/965-3951

Mathematics Education (PhD) (Mathematics and Statistics Dept - Grades 9-20)
LAMTEPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Mathematics Education

Program Description: This interdisciplinary program accommodates students from a variety of academic backgrounds. It provides students with a solid foundation in graduate level mathematics as well as research skills and perspectives that will allow them to deal broadly with problems of mathematics teaching, learning, curriculum, technology, equity and policy. Conducting individual and collaborative research in the learning and teaching of mathematics is an integral part of the program.

Program Requirement: Ph.D. students must complete 84 credit hours of course work including:

1. Twelve credit hours of core mathematics education course work.
2. Twelve credit hours of core mathematics course work.
3. Six credit hours of research (792).
4. Twelve credit hours of dissertation (799).
5. Two qualifying examinations
6. A written comprehensive examination.
7. An oral prospectus defense.
8. Each student must write a dissertation and defend it orally in front of five dissertation committee members.

See the department Web site for examination information.

Admission Requirements: Applicants must submit the Graduate College online application. Minimum background for consideration of admission to the graduate program in mathematics education includes a M.A. in mathematics or closely related area with a 3.00 GPA (4.00 scale) or a B.S. in mathematics or closely related area with exceptionally high grades and advanced course work in mathematics.

Students must be competitive in an applicant pool as evidenced by:

1. Two faculty letters of recommendation.
2. A statement of educational and career goals.
3. GRE scores of 700 quantitative and 500 verbal.

Contact:
School of Mathematical and Statistical Sciences
http://math.la.asu.edu/graduate/mathed.html
grad@math.la.asu.edu
PSA 216
480/965-3951

Medieval Studies (Grad Certificate) LAMEDSTCE

Official Degree Awarded: CERT Medieval Studies (certificate)

Program Description: The certificate program prepares students for advanced study or for academic positions by augmenting their skills and knowledge, thereby making them more equipped to handle the demands of their fields.

Program Requirement:

Medieval Latin: one semester (3-4 credit hours) for M.A. students, two semesters (6-8 credit hours) for Ph.D. students, with proficiency attested either by achieving a grade of “B” (3.00) or better in the medieval Latin course(s) or by satisfactory performance on the medieval/Renaissance Latin examinations offered by the Centre for Medieval Studies at the University of Toronto. (This requirement presupposes two years or 12 to 16 credit hours or equivalent of undergraduate training in Latin.)

Medieval vernacular language (e.g., Old English, Old Norse, Old French): two semesters (six credit hours) for M.A. students, three semesters (nine credit hours) for Ph.D. students.

Paleography: one semester (three credit hours).

Course work outside the major discipline: two semesters (six credit hours) for M.A. students, three semesters (nine credit hours) for Ph.D. students.

Thesis or dissertation in the area of medieval studies (three to six credit hours): for students not concentrating in the area for their degree. Students in the area fulfill the thesis requirement by writing a thesis or dissertation in the field.

Admission Requirements: All applicants to any certificate program must submit the Graduate College online application. Graduate students admitted to a degree program in any field may earn one of two M.A.- or Ph.D.-level certificates: the certificate in medieval studies or the certificate in Renaissance studies.

Contact:
School of Historical and Critical Inquiry
http://www.asu.edu/clas/acmrs
acmrs@asu.edu
Microbiology (MS) LAMICROMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Microbiology

Program Description: The graduate programs are designed to prepare students for careers in teaching and in research on various aspects of microbiology in educational institutions, industry or government agencies.

Program Requirement: A minimum of 30 credit hours of graduate credit are required, of which at least six hours must be thesis and research credit. The program is planned by the student in consultation with the supervisory committee. Students are expected to achieve, through 18 credit hours of course work, a fundamental understanding of the following subdisciplines:

- Bacterial genetics.
- Immunology.
- Molecular biology.
- Physiology and metabolism.
- Virology.

If these course requirements are completed, no comprehensive examination is required. Alternatively, the student may demonstrate this fundamental understanding through the combination of a comprehensive examination, prepared by the student's supervisory committee, and 12 credit hours of formal course work.

A thesis is required along with a final oral examination covering the thesis and related to subject matter.

Admission Requirements: Applicants must submit the Graduate College online application. Applicants should have:

1. Completed the requirements for an undergraduate major in biology, microbiology, chemistry or related discipline, with an adequate background in related courses in plant biology or mathematical and physical sciences.
2. A 3.00 minimum GPA during the student’s last two years or last 60 credit hours.
3. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile) and writing (5).
4. Test of English as a Foreign Language (TOEFL) scores of 250 computer-based, 600 paper-based or 100 Internet-based, for non-native English speakers.
Microbiology (PhD) LAMICROPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Microbiology

Program Description: The graduate programs are designed to prepare students for careers in teaching and in research on various aspects of microbiology in educational institutions, industry or government agencies.

Program Requirement: The plan of study is designed by the student and the supervisory committee, consisting of a major professor and three additional faculty members. The program is tailored to the needs of the individual student.

1. Eighty-four credit hours are required.
2. Twelve hours of dissertation are required.
3. The remainder hours are comprised of coursework showing breadth in microbiology and related disciplines, seminars and research.
4. Written and oral comprehensive examinations are required in order to advance to candidacy.
5. A formal defense of the final written dissertation is required prior to graduation.

Admission Requirements: Applicants must submit the Graduate College online application. Admission criteria are as follows. Applicants should have:

1. Completed the requirements for an undergraduate major in biology, microbiology, chemistry or related discipline, with an adequate background in related courses in plant biology or mathematical and physical sciences.
2. A 3.00 minimum GPA during the student’s last two years or last 60 credit hours.
3. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile) and writing (5).
4. Test of English as a Foreign Language (TOEFL) scores of 250 computer-based, 600 paper-based or 100 Internet-based for non-native English speakers.
Molecular/Cellular Biology (MS) LACELLMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Molecular and Cellular Biology

Program Description: The M.S. in molecular and cellular biology degree prepares students for careers that span traditional disciplinary boundaries. The broad-based training provides the necessary skills for professional careers in academic institutions, governmental institutions and industry, particularly those related to health and chemical sciences.

The participating faculty in this interdisciplinary degree program are drawn primarily from the Department of Chemistry and Biochemistry and the School of Life Sciences, with additional faculty from the departments of:

- Bioengineering.
- Chemical and materials engineering.
- Kinesiology.
- Physics.
- Psychology.
- The School of Human Evolution and Social Change.

One striking aspect of studies in this broad area of biological science is the interdisciplinary nature of the field. Similar approaches and techniques are used for studies of biological systems whether they are viral, bacterial, plant or animal.

Program Requirement: Thirty credit hours are required. A minimum of 10 designated credit hours of MCB courses and six hours of research and thesis are required. The remaining courses are selected by the student in consultation with the supervisory committee.

Admission Requirements: All applicants must submit the Graduate College online application. Admission criteria are as follows:

1. A 3.00 minimum GPA during the student's last two years or last 60 credit hours.
2. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile) and writing (5).
3. Test of English as a Foreign Language (TOEFL) scores of 267 computer-based, 600 paper-based or 100 Internet-based for non-native English speakers.

Contact:
School of Life Sciences
Molecular/Cellular Biology (PhD) LACELLPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Molecular and Cellular Biology

Program Description: The Ph.D. in molecular and cellular biology degree prepares students for careers that span traditional disciplinary boundaries. The broad-based training provides the necessary skills for professional careers in academic institutions, governmental institutions, and industry, particularly those related to health and chemical sciences. This interdisciplinary degree program includes a doctoral concentration in computational biosciences. The participating faculty in this interdisciplinary degree program are drawn primarily from the Department of Chemistry and Biochemistry and the School of Life Sciences, with additional faculty from the departments of bioengineering, chemical and materials engineering, kinesiology, physics, psychology and the School of Human Evolution and Social Change. One striking aspect of studies in this broad area of biological science is the interdisciplinary nature of the field. Similar approaches and techniques are used for studies of biological systems whether they are viral, bacterial, plant or animal.

Program Requirement: The plan of study is designed by the student and the supervisory committee, consisting of a major professor and three additional faculty members; major professor and one other must be from MCB core faculty.

1. Eighty-four credit hours are required.
2. Twelve credit hours of dissertation are required and the remaining hours are comprised of core course work, seminars and research.
3. An oral and written comprehensive examination are required in order to advance to candidacy.
4. A formal defense of the final written dissertation is required prior to graduation.

Admission Requirements: All applicants must submit the Graduate College online application. Admission criteria are as follows:

1. A 3.00 minimum GPA during the student’s last two years or last 60 credit hours.
2. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile), and writing (5).
3. Test of English as a Foreign Language (TOEFL) scores of 267 computer-based, 600 paper-based or 100 Internet-based for non-native English speakers.

A GRE subject examination is strongly recommended.
**Museum Studies (Grad Certificate) LAMUSEUMCE**

*Official Degree Awarded:* CERT Museum Studies (certificate)

*Program Description:* The certificate may be taken independently or in conjunction with the M.A. in anthropology with a concentration in museum anthropology.

*Program Requirement:* Eighteen credit hours are required, which include 12 hours of required course work and a six-credit-hour internship at an approved museum.

*Admission Requirements:* In addition to the general requirements for admission to the Graduate College, the School of Human Evolution and Social Change requires applicants to provide:

1. A statement of their interests and professional goals.
2. Three letters of recommendation.

The certificate may be taken independently or in conjunction with the M.A. in Anthropology with a concentration in museum anthropology. Applicants who received their B.A. during the past ten years must also submit scores on the GRE. Undergraduate course work in anthropology is not a prerequisite for admission, but is generally advisable. Students may be admitted without such a background and may be required to acquire knowledge of general anthropology in a manner to be specified at the time of admission.

**Nanoscience (PSM) LANANPSM**

College of Liberal Arts and Sciences

*Official Degree Awarded:* PSM Nanoscience

*Program Description:* The P.S.M. in nanoscience is a cohesive program of interdisciplinary courses that provide the knowledge base required for research and innovation in nanoscience. The program incorporates courses in physics, chemistry and biochemistry, materials science and electrical engineering.

Contact:
School of Human Evolution & Social Change
http://shesc.asu.edu/graduate_studies
shescgrad@asu.edu
SHESC 233
480/965-6215
Commercial innovation is a particular target goal of the degree, including applications in optics, semiconductor electronics and optoelectronics, sensors, nano-medicine and healthcare. The P.S.M. in nanoscience program is suitable for working professionals as well as for students who have obtained traditional B.S. or M.S. in related fields.

**Program Requirement:** To be awarded the P.S.M. in nanoscience, students must complete 30 credit hours of course work including an applied project. Core courses account for 15 of the 30 credits, including society- and intellectual-property-based courses in addition to core science courses. Many of the requisite elective courses are currently offered within the Departments of Physics and Chemistry and Biochemistry. Most are cross-listed with other units.

The program includes a two-semester, student-centered professional seminar where the central role of the program as a vehicle for innovation emerges. During the spring semester and summer session, students conduct an individual applied project in association with a research group. The degree does not require a thesis. Rather, the applied project forms the basis of the final capstone presentation.

**Core Courses (two-three credit hours each)**

- NAN 571 Quantum Physics for Nanoscience (three credits, initial summer session)
- NAN 593 Applied Project (three credits each, spring and final summer session)
- NAN 598 Nanoscience and Society (two credits, final summer session)
- NAN 598 Innovation and IP Management (two credits, final summer session)
- NAN 591 Professional Seminar (two credits each fall and spring)

The NAN 505 and 506 courses are designated as alternate core courses, which in some years will be given within the professional seminar. Three alternate program options may be found on the Web site.

Throughout the program, students interact with research faculty and other students in a variety of disciplines related to nanoscience. Students also meet with visiting speakers and industrialists in the Professional Seminar, as well as other seminars.

If taken full-time, the P.S.M. in nanoscience can be completed in twelve months (fall semester, spring semester and two summer sessions). Another option is our two-year, part-time program, which allows prospective students and their employers flexibility in scheduling their program of study.

**Admission Requirements:**
• Applicants who hold a bachelor's degree from a regionally accredited institution in physics, chemistry or a related field are eligible to apply to the program.
• This program also seeks to attract students already employed in related areas, and who wish to become knowledgeable and skilled in nanoscience.
• GRE scores are not required for application, but will be taken into consideration if submitted.
• A Test of English as a Foreign Language (TOEFL), or equivalent, score for non-native English speakers will be required when applicable.
• Applications must be submitted online with accompanying materials as specified on the Graduate College Web site.

Contact:
Department of Physics
http://physics.asu.edu/graduate/psm/overview
nanoscience@asu.edu
PSF 470
480/965-3561

Philosophy (History and Philosophy of Science) MA LAHPSMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Philosophy (History and Philosophy of Science)

Program Description: Nationally, there is great interest in science and in understanding the nature of science and the forces that change scientific research. The job market in philosophy is strong for philosophers of science (and especially in the life sciences) with some positions remaining unfilled even when the market is intensely competitive in other areas. In addition, the history and philosophy of science is becoming a strong disciplinary emphasis within growing professional societies.

Some programs elsewhere focus primarily on philosophy or primarily on history, but those that bring the two together are regarded among the strongest in each area. The objective here is to provide a program for students who come to history and philosophy of science from the humanities, and who seek a career based in philosophical analysis of the sciences. We have the research strength competitive with any international program.

Program Requirement: Students will complete 30 hours of graduate course work for the M.S., which include:

    History of Science (3)
    Philosophy of Science (3)
    Topics in the History of Science (3)
    Topics in the Philosophy of Science (3)
    Research Methods in the History and Philosophy of Science (3)
Prospectus Writing (3)
Research and Thesis (12)

Admission Requirements: All applicants must submit the Graduate College online application. Applicants must possess a bachelor’s degree from a regionally accredited university or the equivalent and have attained a cumulative GPA in their last 60 credit hours of their bachelor’s degree of at least 3.00 (4.00 scale).

Contact:
School of Historical and Critical Inquiry
http://sols.asu.edu/grad
Sols@asu.edu
LSC 284
480/965-8927

Philosophy (History and Philosophy of Science) PHD LAHPSPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Philisophy (History and Philosophy of Science)

Program Description: This concentration combines solid training in the core areas of philosophy with an emphasis on interdisciplinary studies of the sciences, their history, epistemology, conceptual structure and impacts on society. This degree program is especially appropriate for students with a background in philosophy or those who wish to pursue a degree in philosophy, and who seek to broaden their disciplinary studies with an historical perspective. Applicants will typically come from undergraduate programs that have included philosophical training or with a master’s degree in philosophy. Science students are eligible as well, and will make up the core courses during their first years. Application is through the Department of Philosophy.

Nationally, there is great interest in science and in understanding the nature of science and the forces that change scientific research. The job market in philosophy is strong for philosophers of science (and especially in the life sciences) with some positions remaining unfilled even when the market is intensely competitive in other areas. In addition, the history and philosophy of science is becoming a strong disciplinary emphasis within growing professional societies. Some programs elsewhere focus primarily on philosophy or primarily on history, but those that bring the two together are regarded among the strongest in each area. The objective here is to provide a program for students who come to the history of philosophy and science from the humanities and who seek a career based in philosophical analysis of the sciences. We have the research strength competitive with any program internationally.

Program Requirement: Students will complete 84 hours of graduate course work for the Ph.D., which includes:
History of Science (3)
Philosophy of Science (3)
Topics in the History of Science (3)
Topics in Philosophy of Science (3)
Research Methods in History and Philosophy of Science (3)
Prospectus Writing (3)

Additional courses required for the degree include:

- A course in history of philosophy (3)
- A course in value theory (3)
- Advanced Logic or approved equivalent (3)
- Approved philosophy or other relevant courses (9)
- HPS 600 Lab (3 hours, one credit each)
- Research or elective courses approved by dissertation chair (33)

_Admission Requirements_: All applicants must submit the Graduate College online application. Applicants must possess a bachelor's degree from a regionally accredited university or the equivalent and have attained a cumulative GPA in their last 60 credit hours of their bachelor's degree of at least 3.00 (4.00 scale).

_Contact:_
School of Historical and Critical Inquiry
http://sols.asu.edu/grad
sols@asu.edu
LSC 284
480/965-8927

**Philosophy (MA) LAPHILMA**
College of Liberal Arts and Sciences

_Official Degree Awarded:_ MA Philosophy

_Program Description:_ The M.A. in philosophy program is designed to prepare students either to teach philosophy at the community college level, to enter doctoral programs in philosophy at other institutions, or to be employed in any areas that require critical and analytical thinking (such as medicine, law, government or publishing).

_Program Requirement:_ There are two tracks of study for the M.A. in philosophy:

**Thesis Option**

1. Each student must take at least 24 credit hours of approved graduate-level courses, not including PHI 599 Thesis.
2. An additional six credit hours of PHI 599 Thesis is required (see Thesis Requirements below.)
3. Each student is required to take an approved graduate-level course of three credit hours or more in each of the following four major areas and to obtain at least a "B" (3.00) in each course: epistemology, history, metaphysics and value theory.

4. Each semester’s program of study must be approved by the Director of Graduate Studies.

5. Students must maintain a "B" (3.00) average or better in their graduate course work and at least a "B" (3.00) in the courses specified above.

Thesis Requirements

1. This written work must demonstrate the ability to carry out independent research in philosophy.

2. Each student must complete six credit hours of PHI 599 Thesis; no more than six credit hours of PHI 599 may count toward the 30 credit hour requirement.

3. At the end of the third semester of graduate work, each student shall form, with the approval of the Director of Graduate Studies, a thesis committee. One member, the “director,” shall chair the thesis committee. At least three members of the thesis committee, including the director, shall be members of the philosophy department.

4. After the thesis committee is formed, the student shall, within a reasonable time, present a thesis prospectus to that committee for approval.

5. Once the thesis committee has certified that the student’s thesis is sufficiently complete, the student shall present an oral defense of the thesis. The committee may still require changes in the thesis after the oral defense.

Nonthesis Option

1. Each student must take at least 27 credit hours of approved graduate-level courses, not including PHI 592 Research.

2. An additional three hours of PHI 592 Research is required to prepare the portfolio.

3. Each student is required to take an approved graduate-level course of three credit hours or more in each of the following four major areas and to obtain at least a “B” (3.00) in each course: epistemology, history, metaphysics, and value theory. An overall GPA of “B” (3.00) is required.

4. Each semester’s program of study must be approved by the director of graduate studies.

Portfolio Requirements

A portfolio is required. This written work must consist of two papers from one of the major areas and must demonstrate the ability to carry out independent research in philosophy. A final oral examination in defense of the portfolio is required.
Admission Requirements: Applicants must submit the Graduate College online application. All applications for admission to the M.A. in philosophy must be accompanied by:

Complete transcripts.

1. The applicant's score in the GRE.
2. Three letters of recommendation from persons qualified to judge the applicant's potential for graduate work in philosophy.
3. A sample of philosophical writing.
5. A T.A. application.

The graduate application, transcripts, GRE and Test of English as a Foreign Language (TOEFL) scores should be sent to:

Admissions Office
Graduate College
Arizona State University
P.O. Box 871003
Tempe, AZ 85287-1003

The letters of recommendation, philosophical writing sample, statement of purpose and T.A. application should be mailed to:

Director of Graduate Studies
Department of Philosophy
Arizona State University
P.O. Box 874102
Tempe, AZ 85287-4102

The application deadline is Feb. 15.

Contact:
School of Historical and Critical Inquiry
http://www.asu.edu/clas/philosophy/
philosophy@asu.edu
COOR 3309
480/965-5778

Philosophy (PhD) LAPHILPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Philosophy

Program Description: The Ph.D. in philosophy is designed to prepare students for careers as philosophers and teachers of philosophy, and in areas that may benefit from advanced training in philosophy, such as law, civil service and publishing.
Program Requirement: This degree program requires:

1. Eighty-four credit hours.
3. A written comprehensive examination.
4. An oral comprehensive examination.

The student’s program of study is selected by the student in consultation with the graduate director and the supervisory committee and is approved by the supervisory committee.

Course requirements

To insure breadth in the traditional areas of philosophy, students must pass with a grade of “B” (3.00) or better:

- Two graduate courses in history of philosophy.
- Two graduate courses in value theory.
- Four graduate courses in metaphysics and epistemology, including areas such as philosophy of language, of science and of mind.
- One advanced course in symbolic logic (400 or 500 level); students may satisfy the logic requirement by examination.

Foreign Language Requirement

None.

Comprehensive Examination

Students will be examined in their area of specialization and competence. The written and oral examinations are based on a bibliography compiled by the student and approved by the student’s advisory committee. Normally these examinations are taken after the student has completed at least 60 credit hours of graduate course work.

Dissertation Prospectus

Each doctoral candidate will prepare a prospectus of four to seven pages for the dissertation. The format and design of the prospectus will be determined by the candidate and committee chair. The prospectus should include the following:

2. Discussion of relevant literature.
3. Discussion of the approach to the project.
Ph.D. students achieve candidacy status in a letter from the dean of the Graduate College upon passing the comprehensive examinations and successfully defending the dissertation prospectus.

**Dissertation**

A dissertation based on original research is required. Research for the dissertation is supervised by a committee of at least three faculty members, appointed by the graduate director in consultation with the student. Students must enroll for a minimum of 12 credit hours of research or dissertation credit after admission to candidacy.

**Final examination**

An oral examination in defense of the dissertation is required.

*Admission Requirements:* All applicants must submit the Graduate College online application.

*Contact:*  
School of Historical and Critical Inquiry  
http://www.asu.edu/clas/philosophy/  
philosophy@asu.edu  
COOR 3309  
480/965-5778

**Physics (MNS) LAPHYSMNS**  
College of Liberal Arts and Sciences  

*Official Degree Awarded:* MNS Natural Science (Physics)

*Program Description:* The M.N.S. curriculum provides interdisciplinary graduate training in physics, physical science or physics education. The degree is especially suited for individuals who desire professional training rather than research training. Designed for flexibility, the curriculum also features individualized professional graduate programs. These programs are well-suited to the backgrounds and goals of students. Students are expected to emphasize course work in two or more areas of concentration. The program must be interdisciplinary.

*Program Requirement:* A minimum of 30 credit hours is required for the degree. A thesis is optional. A final written or oral examination, or both, is required. Each examination is administered by the supervisory committee.

**Supervisory Committee**
• The supervisory committee, consisting of three faculty members, is appointed by the dean of the Graduate College upon the recommendation of the chair of the Department of Physics.
• The supervisory committee is formed soon after the student has been admitted to the degree program and must reflect the interdisciplinary nature of the program.
• The graduate advisor and the student suggest names of persons to serve on the supervisory committee. The supervisory committee recommends the plan of study, after conferring with the student.
• The supervisory committee may require more courses, depending upon the background of the student and the nature of the proposed program. In some cases undergraduate courses may be required to overcome deficiencies.

Teachers may enroll in these courses in order to earn credit towards recertification, or to pursue an M.N.S. For some courses, the prerequisites are two semesters of trigonometry-based college physics and an introductory calculus course. These courses are held during the summer. Depending on teacher interest, they may be offered at other times. Additional information about the M.N.S. for high school physics teachers is available at http://physics.asu.edu.

Admission Requirements:

• Requirements for admission are the availability of resources for the proposed program and a Department of Physics faculty member designated to serve as a graduate advisor.
• The submission of scores on the GRE (verbal, quantitative, and analytical) is required of all applicants.
• A Test of English as a Foreign Language (TOEFL) (or equivalent) score for non-native English speakers will be required when applicable.
• Applications must be submitted online with accompanying materials as specified on the Graduate College Web site. To obtain application forms, access http://physics.asu.edu.

Contact:
Department of Physics
http://physics.asu.edu
physics.grad@asu.edu
PSF 470
4809653561

Physics (MS) LAPHYSIMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Physics

Program Description: The M.S. in physics program provides graduate instruction and research experience appropriate to many physics-related careers. The structure of
the program is flexible enough to allow a wide range of programs of study and a wide range of student backgrounds. It is also suitable for part-time study.

Completion of the program requires a minimum of two years, with students typically taking courses for the first three semesters and completing a research project in their final semester. The student defends a master's thesis at the end of the program.

**Program Requirement**: This program requires 30 credit hours and a thesis. The M.S. in physics can emphasize either physics alone or physics in combination with other fields.

**Admission Requirements**: To be admitted to the M.S. in physics program without deficiencies, applicants should have adequate undergraduate preparation equivalent to an undergraduate major of 30 credit hours in physics and 20 credit hours in mathematics. Courses in analytic mechanics, electromagnetism and modern physics, including quantum mechanics, are particularly important.

Students applying for admission must submit:

1. Test scores for the verbal, quantitative and analytical sections of the GRE. Submission of scores for the physics GRE subject test is recommended although not mandatory.
2. A Test of English as a Foreign Language (TOEFL) (or equivalent) score for non-native English speakers will be required when applicable.
3. Applications must be submitted online with accompanying materials as specified on the Graduate College Web site.

Financial support in the form of teaching or research assistantships is contingent upon satisfactory performance in course work, timely completion of the final examination for the M.S. degree, and need and availability of such support. Students on probation are offered financial support only under exceptional circumstances.

**Contact:**
Department of Physics
http://physics.asu.edu/
physics.grad@asu.edu
PSF 470
480/965-3561

**Physics (PhD) LAPHYSIPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded**: PHD Physics

**Program Description**: The Ph.D. in physics offered by the Department of Physics is intended for highly capable students having the interest and ability to pursue a career in independent research. The degree marks the transition from student of
physics to independent physicist. Ph.D. in physics graduate students are the heart and soul of research activities in any physics department.

The ASU graduate program in physics has over 100 Ph.D. students working with members of the physics graduate faculty, which extends beyond the departmental faculty to include Ph.D. faculty members from related disciplines, which currently include chemistry and biochemistry, biology, electrical engineering and materials science.

Program Requirement: This degree program requires:

1. Eighty-four credit hours.
3. A written comprehensive examination.
4. An oral comprehensive examination.

Ph.D. physicists enter careers ranging from academic faculty to industrial research to administration and management.

Admission Requirements: Applicants to the Department of Physics Ph.D. program must hold at least a baccalaureate degree from a recognized institution and must have had adequate undergraduate preparation equivalent to an undergraduate major of 30 credit hours in physics and 20 credit hours in mathematics.

Students applying for admission must submit:

1. Test scores for the verbal, quantitative, and analytical sections of the GRE. Submission of scores for the physics GRE subject test is also required.
2. A Test of English as a Foreign Language (TOEFL) (or equivalent) score for non-native English speakers will be required when applicable.
3. Applications must be submitted online with accompanying materials as specified on the Graduate College Web site.

Financial support in the form of teaching or research assistantships is contingent upon satisfactory performance in course work, timely completion of the final examination for the degree, and need and availability of such support.

Contact:
Department of Physics
http://physics.asu.edu/
physics.grad@asu.edu
PSF 470
480/965-3561

Plant Biology (MS) LAPLBIOMS
College of Liberal Arts and Sciences

Official Degree Awarded: MS Plant Biology
Program Description: The plant biology graduate program is a multidisciplinary program that offers interdisciplinary training at the forefront of plant biology at levels of organization ranging from molecules to communities and landscapes. The M.S. program offers a broad range of research areas, from cell and molecular biology, biochemistry and biotechnology, to ecology, floristic and systematics. Although research training is focused primarily on acquiring basic knowledge, we offer opportunities for exposure to and participation in research with applied goals.

Program Requirement: This degree program requires 30 credit hours and a thesis. The program must include:

1. A minimum of three semester hours of research.
2. Three credit hours of thesis.
3. One hour of participatory seminar (PLB 591).

The program is planned by the student in consultation with the supervisory committee.

Admission Requirements: Applicants must submit the Graduate College online application. Applicants should have completed the following:

1. An undergraduate major in the plant sciences, biology or related discipline.
2. A 3.00 minimum GPA during the student’s last two years or last 60 credit hours.
3. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile) and writing (five).
4. Test of English as a Foreign Language (TOEFL) scores of 250 computer-based, 600 paper-based or 100 Internet-based, for non-native English speakers.

Contact:
School of Life Sciences
http://sols.asu.edu/grad/
sols.grad@asu.edu
LSC 226
480/965-1768

Plant Biology (PhD) LAPLBIOPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Plant Biology

Program Description: The plant biology graduate program is a multidisciplinary program that offers interdisciplinary training at the forefront of plant biology at levels of organization ranging from molecules to communities and landscapes.

The doctoral program offers a broad range of research areas:
• Cell and molecular biology.
• Biochemistry and biotechnology.
• Ecology.
• Floristics.
• Systematics.

Although research training is focused primarily on acquiring basic knowledge, we offer opportunities for exposure to and participation in research with applied goals.

Program Requirement: The Ph.D. in plant biology program requires:

1. Eighty-four credit hours.
3. A written comprehensive examination.
4. An oral comprehensive examination.

The program must include a maximum of 12 hours dissertation credit and at least 30 hours of formal graduate course work. Two hours of PLB 591 participatory seminar are included in the required course work.

Courses numbered 590 or 790 (reading and conference) are not considered formal courses. The program is planned by the student in consultation with a supervisory committee, consisting of a major professor and three additional faculty members.

Admission Requirements: Applicants must submit the Graduate College online application.

Applicants should have completed:

1. An undergraduate major in the plant sciences, biology, or related discipline, with an adequate background in related courses in chemistry, mathematical and physical sciences.
2. A 3.00 minimum GPA during the student’s last two years or last 60 credit hours.
3. Minimum GRE scores in verbal (50th percentile), quantitative (70th percentile) and writing (five).
4. Test of English as a Foreign Language (TOEFL) scores of 250 computer-based, 600 paper-based or 100 Internet-based.
5. A GRE subject examination is strongly recommended.

Contact:
School of Life Sciences
http://sols.asu.edu/grad/
sols.grad@asu.edu
LS C226
480/965-1768
Political Science (MA) LAPOLSCMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Political Science

Program Description: The M.A. in political science program provides advanced education for students preparing for teaching, research or applied careers in political science. It may be taken as a terminal program or as a step toward eventual fulfillment of the requirements for the Ph.D. Students may apply directly to the doctoral program or master’s program.

Program Requirement:

1. A minimum of 30 credit hours is required for the M.A. in political science.
2. This program includes both a thesis and nonthesis option. If the thesis option is followed, the program must include a combination of at least six credit hours of research (POS 592) and thesis (POS 599) credit.
3. All candidates must take POS 503 and the core course in the student's major and minor fields.
4. Each student must take a pass/fail one-credit-hour workshop course each semester.
5. In the spring of the first year, the student is required to take POS 598 ST: Teaching and Writing Workshop.
6. Additional hours must be taken in graduate-level courses and seminars. Each student is expected to take seminars each semester in his/her major field, minor field and an elective until course work is completed.
7. A maximum of six credit hours in approved courses taken outside the department and six hours of reading and conference (POS 590) courses may count toward the 30-hour requirement.

Admission Requirements: Applicants must submit the Graduate College online application.

The following items should be submitted to the Department of Political Science by February 1 in order to ensure recommendations for admission to the M.A. program beginning the following fall:

1. Scores from the verbal, quantitative and analytical sections of the GRE.
2. Three letters of recommendation from persons who can evaluate the applicant's academic performance and potential.
3. A career overview statement which describes the applicant's educational objectives.
4. A writing sample that best represents the applicant's thinking and writing skills.

Departmental application materials should be mailed to:

Graduate Coordinator
Department of Political Science
P.O. Box 873902
Tempe, AZ 85287-3902

Applicants for financial aid should submit these items and complete the application form for graduate assistantships by February 1.

Undergraduate course work in political science is not a prerequisite for admission. However, M.A. students should have a basic understanding of elementary statistics and the undergraduate content of the political science fields of concentration that they wish to study. Students should allow sufficient time to acquire such a background.

Contact:
School of Government, Politics and Global Studies
http://www.asu.edu/clas/polisci/
polsci@asu.edu
COOR
480/965-6551

Political Science (PhD) LAPOLSCPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Political Science

Program Description: The Ph.D. program is intended to develop scholars who demonstrate a high level of excellence in teaching and research as professional political scientists. It is distinguished by a wide variety of areas of specialization, including American politics, comparative politics, international relations, political theory and public policy.

Program Requirement: This degree program requires:

1. Eighty-four credit hours.
3. A written comprehensive examination.
4. An oral comprehensive examination.
5. A minimum of 60 credit hours of graduate courses beyond the bachelor's degree and approved by the student's supervisory committee shall constitute the formal course preparation, followed by a minimum of 24 credit hours of research and dissertation work.
6. The student's plan of study must include 12, and only 12, dissertation hours.
7. The supervisory committee has three members, including the committee chair from the student's major field, and two members from a minor field.
8. As part of the 60 credit hours, the student must take POS 503 and POS 603.
9. Each student must take a pass/fail one-credit-hour workshop course each semester.
10. In the spring of the first year, the student is required to take POS 598 ST: Teaching and Writing Workshop.

11. A maximum of 12 credit hours of approved course work outside the department, and 12 credit hours of approved reading and conference courses (POS 590 and 790) may count toward the 60 credit hours.

**Admission Requirements:** Applicants must submit the Graduate College online application.

In addition to meeting Graduate College requirements, an applicant for the Ph.D. program must:

1. Take the verbal, quantitative and analytical sections of the GRE.
2. Supply a career overview statement that describes the applicant's educational objectives.
3. Submit three letters of recommendation from persons who can evaluate the applicant's undergraduate and graduate work.
4. Provide a sample of writing.

These items should be submitted before Feb. 1 to:

Graduate Coordinator  
Department of Political Science  
P.O. Box 873902  
Tempe, AZ 85287-3902

Applicants for financial aid should also complete and submit the application form for graduate assistantships by Feb. 1.

Ph.D. students should have a basic understanding of elementary statistics and the content of the areas of concentration that they wish to study. Students should allow sufficient time to acquire such a background.

**Contact:**  
School of Government, Politics and Global Studies  
http://www.asu.edu/clas/polisci/  
polsci@asu.edu  
COOR  
480/965-6551

**Psychology (PhD) LAPSYPHDP**  
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Psychology

**Program Description:** The Department of Psychology offers doctoral programs designed to provide outstanding training in innovative research, methodology and
the application of psychological principles to a wide variety of human conditions. The department is organized into six major areas of interest:

1. Behavioral neuroscience.
2. Clinical.
4. Developmental.
5. Quantitative.
6. Social psychology.

Students pursue their graduate studies within one of these six areas, and each area determines the basic curriculum for their graduate program. There is, however, substantial opportunity to integrate courses of study across areas in the department.

Further, specialized emphases are available that integrate across programs in the university (e.g., cognition, action and perception studies; arts, law and psychology; media and engineering).

At the core of doctoral training in psychology is an emphasis on the development of skill in research and quantitative methods. Faculty in all six areas are actively engaged in major research programs. These theoretically grounded research programs address the breadth of psychological processes:

- Neurobiological processes that underlie behavior and health (e.g., drug abuse, stress, heart disease).
- Cognitive processes involving human memory and perception, personality and issues of stigma and prejudice.
- Developmental aspects of emotion and cognition.
- Prevention of child mental health problems.
- Individual resilience.
- Cultural influences on psychological processes.
- Women’s issues.

A particularly unique strength of the department of psychology is the wealth of outstanding faculty whose specialization is quantitative methods. A breadth of courses and experiences in quantitative methods are available that are well integrated into the areas of research that characterize the department, and offer students a rare opportunity to develop expertise in this critical domain.

*Program Requirement:* A minimum of 84 credit hours are required, which includes 12 credit hours of dissertation beyond the bachelor's degree.

In addition to a core curriculum, students take courses related to their area of interest as determined in consultation with their supervisory committees. Requirements vary across training areas.
Admission Requirements: Completed applications, including all letters and supporting documents, must be received by Dec. 15 for applicants to the clinical program, and by Jan. 5 for all other applicants (behavioral neuroscience, cognitive, developmental, quantitative, social psychology).

All applicants are required to submit:

1. Scores on the GRE.
2. An advanced test in psychology is required for clinical psychology.
3. Transcripts.
5. A statement of purpose.
6. Test of English as a Foreign Language (TOEFL) for international students.

The application and all materials, except for letters of recommendation, should be submitted to the Graduate College. The letters of recommendation, copies of the statement of purpose, transcripts and GRE scores (unofficial copies are acceptable) should be sent directly to:

Coordinator of Graduate Admissions
Psychology Department
P.O. Box 871104
Arizona State University
Tempe, AZ 85287-1104

Contact:
Department of Psychology
http://psychology.clas.asu.edu/
psygrad@asu.edu
PSY 296
480/965-7606

Psychology - Cogn, Act, & Perc (Arts, Media, & Engr) (PHD) LAPSYPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Psychology (Cognition, Action & Perception in Arts, Media & Engineering)

Program Description: This specialized degree program is available for graduate students who wish to blend the study of cognition in psychology with the arts, media and engineering program.

Program Requirement: Doctoral students are required to complete a master’s-in-passing as part of their doctoral training.

Program of Study: A minimum of 30 credit hours is required for the master’s degree.

Foreign Language Requirements: None.
Thesis Requirements: A thesis is required.

Final Examinations: A final oral examination in defense of the thesis is required.

Plan of Study: A minimum of 60 credit hours of course credit beyond the bachelor’s degree is required, plus 24 hours of credit in research and dissertation. In addition to a core curriculum, students take courses related to their area of interest as determined in consultation with their supervisory committees.

First-year Evaluation: At the end of the first year of study, each student receives a comprehensive evaluation by the faculty based upon performance in courses and in professional or laboratory assignments and upon the evidence of professional responsibility and ethical behavior.

Comprehensive Examinations: Written and oral examinations are required near the end or upon completion of all course work. After passing the comprehensive examinations and meeting other requirements, the student is eligible to apply for candidacy.

Dissertation Requirements: The dissertation must be an original contribution to knowledge, demonstrating the student’s proficiency as an independent investigator.

Research in cognition, action and perception, (arts, media and engineering):

- Educational interventions for reading comprehension.
- Embodied cognition.
- Language comprehension and second-language learning.
- Neural processes of perception, action, and emotion.
- Perception and motor skills in real-world activities.
- Robotics.

Admission Requirements: All applicants are required to submit the Graduate College online application, transcripts, three letters of reference and a statement of purpose. The Department of Psychology requires all applicants to provide scores from the GRE. A score from the psychology GRE subject test is strongly encouraged for applicants to this program. These scores are not used exclusively to determine admission but are viewed in the context of other supporting materials, such as GPA and letters of recommendation.

Application Deadline: Completed applications for admission in the fall semester, including all letters and supporting documents, should be received by Jan. 5.

Contact:
Department of Psychology
http://psychology.clas.asu.edu/cognitive
psypgrad@asu.edu
PSY 296
480/965-7606
Quantitative Research Methods (PhD) LAPSYQUPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Psychology (Quantitative Research Methods)

Program Description: The quantitative concentration of the Ph.D. in psychology focuses on the broad class of quantitative and methodological issues that arise in the conduct of both basic and applied psychological research. There are seven core faculty members in the quantitative concentration, of whom five are also affiliated with a substantive area. This dual affiliation supports the training of students of quantitative methods against a backdrop of methodological issues associated with the development of the substance of psychological science. The quantitative concentration is committed to training the next generation of psychological methodologists, who will make contributions in developing methods in the areas of measurement, design and analysis and evaluating the utility of new and existing methods for use in psychological research.

Program Requirement: The program total is 84 credit hours. The quantitative curriculum is structured into a series of progressively more advanced courses. New quantitative/methodological courses may be implemented under an omnibus number (PSY 591) at the interest of the faculty. The current requirements are as follows:

- PSY 530 Analysis of Variance
- PSY 531 Multiple Regression Analysis
- PSY 532 Analysis of Multivariate Data
- PSY 533 Structural Equation Modeling
- PSY 534 Psychometric Methods
- PSY 555 Experimental and Quasi-Experimental Designs
- PSY 591 Quantitative Seminar
- Three psychological methodology electives
- Six credits of substantive course work
- Six credits in additional substantive or methodological electives
- Six credits of PSY 592 (master's thesis)
- 12 credits of PSY 792 (post-master's research)
- 12 credits of PSY 799 (dissertation)

Admission Requirements: Students are admitted directly to the Ph.D. program, with the expectation that the student will progress through a master's degree to the Ph.D. All applicants must submit the Graduate College online application. Other required materials include:

1. GRE scores.
2. Three letters of recommendation, preferably at least two from individuals within the academic community.
3. A brief statement of purpose (900 words or less).
5. Official transcripts of all previous undergraduate and graduate study.
6. Application form.
7. Application fee.

Contact:
Department of Psychology
http://psychology.clas.asu.edu/
psygrad@asu.edu
PSY 296
480/965-7606

Religious Studies (MA) LARELIGMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Religious Studies

Program Description: The M.A. in religious studies emphasizes the comparative study of religions. The program seeks to understand the phenomena of religion across a wide spectrum of cultural contexts and historical periods. Reflecting the different interests and areas of expertise of the faculty, the curriculum incorporates a variety of approaches to the subject, including the cultural, historical, literary, sociological and theological.

Primary areas of emphasis include:

- Modern Western theological and ethical thought.
- Buddhism.
- Christianity.
- East and Southeast Asian religions.
- Hinduism.
- Islam.
- Judaism.

Comparative themes and issues are central to the curriculum. These include:

- Religion and gender.
- Religion, nationalism and ethnicity.
- Religion and science.
- Religion and modernity.
- Mysticism.
- Popular religion.
- Ritual studies.
- Symbolism.
Although students often concentrate upon a single religious tradition for their thesis work, the program seeks to provide a broadly comparative understanding of religions, not simply a specialist’s training in a single tradition.

Program Requirement: This degree program requires:

1. Thirty credit hours.
3. An applied project.
4. A foreign language examination.

Thesis Option
This option is recommended for students intending to seek admission to a doctoral program upon completion of the M.A. or planning to teach in the discipline at community colleges. For the thesis option, the student must satisfy the following requirements:

1. Reading knowledge of French, German or another language relevant to the proposed thesis topic.
2. Twenty-four hours of course work, including six hours in methods and theory (REL 501, 502), six hours of graduate seminar (REL 591), offered each semester on varying topics within the academic study of religion and three hours of research (REL 592) to prepare the thesis proposal.
3. A thesis that earns six credit hours of 599 thesis credit.

Portfolio Option
This option is recommended for students intending to augment their primary area of expertise and professional training in fields such as journalism, law, teaching K-12, counseling, social work and the ministry. For the portfolio option, the student must satisfy the following requirements:

1. Reading knowledge of a foreign language relevant to the proposed area of concentration.
2. Thirty hours of course work, including six hours in methods and theory (REL 501, 502), six hours of graduate seminar (REL 591), four courses in a major area of concentration and two courses in a minor area.
3. A portfolio consisting of three publishable papers: one on theory and method, one on the student's minor area of study, and one on the major area of study.
4. An oral defense of the portfolio.

Admission Requirements: Applicants must submit the Graduate College online application. To be eligible for admission to the graduate program in religious studies, an applicant must submit the following:

1. Test scores from the GRE.
2. Evidence of having completed the equivalent of 15 hours of undergraduate work in the study of religions, including advanced courses in both Western and Asian or other non-Western religions. Students without the necessary background in religious studies may remove deficiencies by taking additional specified courses (which may or may not count toward the fulfillment of degree requirements) at the beginning of their program of study.

3. Three academic letters of reference to be sent to the graduate coordinator of the department.

4. A statement of purpose of approximately 1,000 words outlining the academic background, career goals and specific area of interest in religious studies in relation to fields offered by the faculty, to be sent to the graduate coordinator of the department.

Complete applications are due by Jan. 15.

Contact:
School of Historical and Critical Inquiry
http://www.asu.edu/clas/religious_studies/
Religious.Studies@asu.edu
ECA 377
480/965-5778

Religious Studies (PhD) LARELIGPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Religious Studies

Program Description: The academic study of religion is a central component of the humanities and has become increasingly recognized as a critical tool in understanding society and politics in a globalized world. The Ph.D. program has two main goals:

1. To train graduate students for careers as scholars and teachers in the academic study of religion.
2. To provide supplementary training for graduate students in a range of related programs (including history, anthropology, political science, journalism, secondary education and justice studies) who would benefit from greater expertise regarding the nature and role of religion around the world.

Program Requirement:

Course Work
The plan of study must contain a minimum of 84 credit hours, including 12 hours of dissertation. Courses and research hours are approved by the student’s supervisory committee.

Admission Requirements: In addition to the general requirements for admission to the Graduate College, applicants must also submit:
1. GRE scores.
2. Test of English as a Foreign Language (TOEFL) for international non-native English speakers.
3. A statement of purpose of approximately 1,000 words.
4. Three letters of recommendation from faculty members or others who are qualified to judge the applicant.

Contact:
School of Historical and Critical Inquiry
http://www.asu.edu/clas/religious_studies/
gradrs@asu.edu
ECA 377
480/965-5778

Renaissance Studies (Grad Certificate) LARENAISCE

Official Degree Awarded: CERT Renaissance Studies (certificate)

Program Description: The certificate program prepares students for advanced study or for academic positions by augmenting their skills and knowledge, thereby making them more equipped to handle the demands of their fields.

Program Requirement: Renaissance studies is interdisciplinary and requires the following:

Medieval Latin: one semester (three to four credit hours) for M.A. students, two semesters (six to eight credit hours) for Ph.D. students, with proficiency attested either by achieving a grade of “B” (3.00) or better in the medieval Latin course(s) or by satisfactory performance on the medieval/Renaissance Latin examinations offered by the Centre for Medieval Studies, University of Toronto. This requirement presupposes two years or 12 to 16 credit hours or equivalent of undergraduate training in Latin.

Modern language at the upper division level: two semesters (six credit hours) for M.A. students; three semesters (nine credit hours) for Ph.D. students.

Paleography: one semester (three credit hours).

Course work outside the major discipline: two semesters (six credit hours): for M.A. students, three semesters (nine credit hours) for Ph.D. students.

Thesis or dissertation in the area of Renaissance studies (three to six credit hours): for students not concentrating in the area for their degree. Students in the area fulfill the thesis requirement by writing a thesis or dissertation in the field.

Admission Requirements: All applicants to graduate certificate programs must submit the Graduate College online application. Graduate students admitted to a
degree program in any field may earn one of two M.A.- or Ph.D.-level certificates: the certificate in medieval studies or the certificate in Renaissance studies.

Contact:
School of Historical and Critical Inquiry
http://www.asu.edu/clas/acmrs
acmrs@asu.edu
COOR 4426
480/965-5900

Rhetoric/Composition/Linguistics (PhD) LAENRHTPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD English (Rhetoric, Composition and Linguistics)

Program Description: The Ph.D. in rhetoric/composition and linguistics promotes the study of the production, distribution and interpretation of oral and written texts. It focuses on rhetorical and linguistic structures and functions within the texts and on the internal and external factors involved in the creation of these texts.

Requirements are designed to encourage a full understanding of theoretical and applied aspects of both rhetoric/composition and linguistics and their intersection. Flexibility in requirements makes it possible for students to pursue those aspects of the disciplines which interest them the most.

Courses explore both historical and current theoretical approaches. The program prepares students for entrance into the field as teachers, scholars and professionals.

Program Requirement: The Ph.D. program requires:

1. Eighty-four credit hours.
3. A written or oral examination.
4. A foreign language examination.

In general, a student with an appropriate master’s degree must complete a minimum of 54 credit hours of approved graduate work, which includes 12 credit hours of dissertation. Research hours may be used towards course work in consultation with the advisor.

A student without an appropriate master’s degree usually must complete 84 credit hours of work at ASU. At the advisor's discretion, students may include up to 12 credit hours of appropriate, graduate-level course work undertaken at another university and not previously counted toward any other degree.

Admission Requirements: Applicants must submit a Graduate College online application. Applicants for the Ph.D. in English must also submit:
1. Three letters of recommendation.
2. A statement of purpose.
3. An academic writing sample.
4. A curriculum vitae.
5. GRE general scores.

Deadline for admission applications and requests for financial aid, including teaching assistantships, is Feb. 1. Incomplete files are not considered.

Materials should be sent to:

Graduate Coordinator  
Department of English  
Arizona State University  
P.O. Box 870302  
Tempe, AZ 85287-0302

Contact:  
Department of English  
http://www.asu.edu/clas/english/gradstudies/  
enggrad@asu.edu  
LL 543B  
480/965-3194

Science and Technology Policy (PSM) LAHSDPSM  
College of Liberal Arts and Sciences

Official Degree Awarded: PSM Science and Technology Policy

Program Description: The ASU Professional Science Master's in science and technology policy provides professional education for students seeking advanced public, nonprofit or private sector careers in science and technology policy and related fields in the United States or abroad. Students will learn essential skills, knowledge and methods for analyzing innovation, expertise and large-scale technological systems. Particular emphasis is placed on the political and societal contexts and impacts of science and technology policy. The program is a one-year, 30-credit cohort-based program designed to attract students of the highest caliber in their early to mid-careers.

Students will acquire the following knowledge and skills:

- Understanding of the theoretical foundations of the interactions among science, technology and society.
- Understanding of U.S. and, where appropriate to a student's career interests, international science and technology policies and the policy processes that generate them.
- Analysis of knowledge systems supporting policy decisions.
• Analysis of the social and policy dimensions and implications of large-scale technological systems.
• Analysis of scientific and technological innovation systems.
• Skills in collaborative, team-based analysis of science and technology policy problems.
• Skills in effective professional communication.

Program Requirement: The program requires 30 credits of course work, including:
• 12 credits of required core courses:
  Theories of Science and Democracy (3 credits)
  Analysis of Knowledge and Expertise in Policy Advice (3 credits)
  Analysis of Scientific and Technological Innovation (3 credits)
  Analysis of Large-scale Sociotechnological Systems (3 credits)

• 6 credits of applied policy analysis courses:
  Science and Technology Policy Workshop
  Capstone Science and Technology Policy Project

• Three credits of Science and Technology Policy internship.
• Nine credits of electives.

Admission Requirements: To be eligible for admission, students are required to hold a minimum of a bachelor’s degree (or equivalent) or a graduate degree from a regionally accredited college or university or of recognized standing. Students are also strongly encouraged to have prior relevant education, training or experience in science and technology policy. Students must also hold a minimum of a 3.00 cumulative GPA (on a 4.00 scale) in the last 60 hours of a student’s first bachelor’s degree program. The GRE test is required for admissions. Students may enroll only in the fall semester of each year.

Contact:
Dean, College of Liberal Arts and Sciences
http://www.cspo.org/outreach/psmstp/
sciencepolicy@asu.edu
INTDS B 366
480/727-8787

Social Science and Health (PhD) LASSPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Social Science and Health

Program Description: The Ph.D. in social science and health draws on the premise that sustainable and satisfying solutions to our most pressing global health
challenges requires a sophisticated understanding of how cultural context, social and ecological processes and disease are really related.

The transdisciplinary graduate program trains students broadly in cutting-edge health social science research theory and methods. While it leverages the strength in medical anthropology at ASU (including the 15 medical anthropologists on campus), it also takes advantage of a much wider set of skills offered by such fields as medical sociology, demography, human geography and epidemiology. It is designed to train those who anticipate either working in transdisciplinary academic settings, medical schools or nonacademic health settings, such as governmental agencies, NGOs and the commercial sector.

Some particular thematic foci of the program are:

- Culture and health.
- Social justice and vulnerable populations.
- Health in the Americas.
- Nutritional anthropology.
- Urban and environmental health.
- Indigenous and minority health.
- Biocultural approaches to human coping.
- Mathematical epidemiology.
- Computer-based complexity modeling.
- Social networks.

The programs draw some 80 faculty from all across the university to consider how cutting-edge social science can be applied to not only understand but also to substantively improve the health of populations. The program favors community-based research and runs collaborative projects in which students are encouraged to gain experience and conduct research, from large U.S. cities to hunter-gatherer communities. Students generally enter the program with an M.A. in a relevant field.

**Program Requirement:** The Ph.D. program consists of:

1. Eighty-four hours of course work post-B.A.
2. Fifty-four (30 course work, 24 research and dissertation) hours post-M.A.

Students are admitted to candidacy on the basis of a written and oral examination. Students entering the Ph.D. in social science and health do so with diverse backgrounds and with varied career goals.

Curricular tracks will tend to be individualized and final determination of the most appropriate course of study or how each requirement should most appropriately be met is made by a student in collaboration with a faculty advisor.
Admission Requirements: In addition to the general requirements for admission to the Graduate College, the School of Human Evolution and Social Change requires applicants to provide:

1. A statement of their interests and professional goals.
2. A list those faculty with whom they are interested in working.
3. Three letters of recommendation.
4. Applicants who received their B.A. within the last 10 years must also submit scores on the GRE.

Suitable backgrounds for admission include an M.A. in the social sciences (such as anthropology or sociology), public health, human biology or related fields. Students entering directly from a B.A. should already have completed at least 15 hours of social science and six hours of human biology (or equivalent) at the senior level, and should also have some background in statistics and/or epidemiology.

Contact:
School of Human Evolution & Social Change
http://shesc.asu.edu/graduate_studies
shescgrad@asu.edu
SHESC 233
480/965-6215

Social Science and Health (Urbanism) PhD LASSHURPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Social Science and Health (Urbanism)

Program Description: The Doctor of Philosophy in social science and health focuses on the premise that sustainable and satisfying solutions to our most pressing global health challenges requires a sophisticated understanding of how cultural context, social and ecological processes and disease are related. The transdisciplinary graduate program trains students broadly in cutting-edge health social science research theory and methods. While it leverages the strength in medical anthropology at ASU (including the 15 medical anthropologists on campus), it also takes advantage of a much wider set of skills offered by such fields as medical sociology, demography, human geography and epidemiology. It is designed to train those who anticipate either working in transdisciplinary academic settings, medical schools or nonacademic health settings, such as governmental agencies, nongovernmental organizations and the commercial sector.

Some particular thematic foci of the program are:

- Culture and health.
- Social justice and vulnerable populations.
- Health in the Americas.
- Nutritional anthropology.
- Urban and environmental health.
• Indigenous and minority health.
• Biocultural approaches to human coping.
• Mathematical epidemiology.
• Computer-based complexity modeling.
• Social networks.

The concentration in urbanism will leverage the varied interests in urbanism and help emerging scholars as they attempt to compare, contrast and take stock of urbanism as they pertain to the thematic foci of the program. Working with faculty from across a range of departments and programs at ASU, doctoral students will be able to capture the creative tensions that scholarship on urbanism has inspired in order to stimulate a provocative, constructive kind of inquiry.

The programs draw some 80 faculty from all across the university to consider how cutting-edge social science can be applied to not only understand but also to substantively improve the health of populations. The program favors community-based research and runs collaborative projects in which students are encouraged to gain experience and conduct research into societies from large U.S. cities to hunter-gatherer communities. Students generally enter the program with a master’s degree in a relevant field.

Program Requirement: This program consists of:

1. Eighty-four hours of course work post-bachelor’s.
2. Fifty-four (30 course work, 24 research and dissertation) hours post-master’s.
3. A written comprehensive examination.

Students are admitted to candidacy on the basis of a written and oral examination. Students entering the Doctor of Philosophy in social science and health do so with diverse backgrounds and with varied career goals.

Curricular tracks will tend to be individualized and final determination of the most appropriate course of study or how each requirement should most appropriately be met is made by a student in collaboration with a faculty advisor. For the concentration in urbanism, 15 credit hours will be selected from an approved list of applicable courses related to urbanism. These courses will include the core urbanism course, GCU 516, as well as one course from each of the four urbanism clusters. These clusters are:

1. Natural environment.
2. Built form.
3. Institutions and governance.
4. Culture and society.
Admission Requirements: In addition to the general requirements for admission to the Graduate College, the School of Human Evolution and Social Change requires applicants to provide:

1. A statement of their interests and professional goals.
2. A list those faculty with whom they are interested in working.
3. Three letters of recommendation.
4. Applicants who received their bachelor's within the last 10 years must also submit scores on the GRE.

Suitable backgrounds for admission include a master's degree in the social sciences (such as anthropology or sociology), public health, human biology or related fields. Students entering directly from a bachelor's program should already have completed at least 15 hours of social science and six hours of human biology (or equivalent) at the senior level, and should also have some background in statistics and/or epidemiology.

Contact:
School of Human Evolution & Social Change
http://shesc.asu.edu/node/214
shescgrad@asu.edu
SHESC 233
480/965-6215

Sociology (MA) LASOCMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Sociology

Program Description: This degree program provides advanced training for those preparing for teaching, research or applied careers in sociology, and may be taken either as a terminal program or as a step toward eventual fulfillment of requirements for the Ph.D.

Program Requirement: An M.A. in sociology program requires the successful completion of a minimum of 32 credit hours, including:

- An 11-hour core curriculum.
- Three hours of theory (SOC 585).
- Six hours of research methods and statistics (SOC 500 and 505).
- One hour of sociology as a profession (SOC 503).
- Six hours earned through a thesis (SOC 599).
- The balance taken from substantive courses.

Admission Requirements: All applicants must submit a Graduate College online application.

Admission to the program is determined by the following criteria:
1. GRE scores (verbal, quantitative and writing).
2. Three letters of appraisal from persons familiar with the applicant’s academic background.
3. Valid transcripts of the student’s academic record.
4. A writing sample.
5. A statement of purpose provided by the applicant.

The application deadline is Jan. 15.

Contact:
School of Social/Family Dynamics
http://ssfd.clas.asu.edu/
ssfd@asu.edu
SS 144
480/965-6978

Sociology (PhD) LASOCPHD
College of Liberal Arts and Sciences

Official Degree Awarded: PHD Sociology

Program Description: This degree provides advanced training in theory, research methodology and substantive fields to prepare sociologists for teaching and research with special emphasis on family, demography and health issues.

Program Requirement: This degree program requires:

1. Eighty-four credit hours.
3. A written comprehensive examination.
4. An oral comprehensive examination.

Thirty credit hours from a previously awarded master’s degree can be applied to the 84-credit-hour requirement.

The Ph.D. requires 54 credit hours beyond the master’s degree. Three credit hours of each, theory, methods and statistics are required, and 24 credit hours are earned through dissertation and research. The remaining 21 credit hours are in substantive courses reflecting the student’s specialization.

First-year Ph.D. students are required to take SOC 503 Sociology as a Profession. A minimum of 30 credit hours of the approved Ph.D. program, exclusive of dissertation and research hours, must be completed after admission to the Ph.D. program.

Admission Requirements: Applicants must submit the Graduate College online application. Admission to the program is determined by the following criteria:
1. GRE scores (verbal, quantitative and writing).
2. Three letters of appraisal from persons familiar with the applicant's academic background.
3. Valid transcripts of the applicant's academic record.
4. A writing sample and a statement of purpose provided by each applicant.

Applicants should have an M.A. or its equivalent in sociology or a related field. The option is available for a few outstanding undergraduates to apply directly to the Ph.D. program. These students must obtain an M.A.-in-passing. The application deadline is Jan. 15.

Contact:
School of Social/Family Dynamics
http://ssfd.das.asu.edu/
ssfd@asu.edu
SS 144
480/965-6978

Spanish (MA) LASPANMA
College of Liberal Arts and Sciences

Official Degree Awarded: MA Spanish

Program Description: M.A. in Spanish programs combine Spanish, Spanish American and Mexican American literature, linguistics and culture. All programs have a research component: candidates for the M.A. in Spanish write a thesis.

The M.A. has two concentrations: literature and culture, and linguistics. It is possible to concentrate courses in one of two subconcentrations within the linguistics track: sociolinguistics and second language acquisition/applied linguistics. Students admitted to the M.A. program with a major in secondary education may elect Spanish as the subject matter field.

Program Requirement: The program of study for the M.A. includes a minimum of 30 credit hours of graduate-level work and a thesis, as approved by the candidate's supervisory committee. Students seeking an M.A. in Spanish should consult with the respective director of graduate studies.

Comprehensive Examination: all candidates are required to pass a comprehensive written or oral examination designed to evaluate the candidate’s knowledge in the area of specialization. A reading list is provided as a guide to preparation for this examination.

Admission Requirements: Students interested in applying to this program must submit a Graduate College online application.

Candidates for the M.A. should, upon entrance, present the equivalent of an undergraduate major in the language in which the degree is sought. Those who lack
this background, but who show strong potential and meet Graduate College admissions requirements, may be admitted to a graduate program on a provisional basis, pending removal of specified deficiencies. These deficiencies must be completed in addition to the regular program of study for the master’s degree.

**Contact:**
School of International Letters and Cultures  
http://silc.asu.edu/graduate  
silc@asu.edu  
LL 440  
480/965-6281

**Spanish (PhD) LASPANPHD**  
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Spanish

**Program Description:** The School of International Letters and Cultures offers a graduate program in Spanish leading to the Ph.D. in Spanish with concentrations in literature or culture studies.

**Program Requirement:** The Ph.D. in Spanish consists of:

1. Eighty-four credit hours of graduate-level work.
2. Twelve (and only 12) credit hours of dissertation (SPA 799).
3. Thirty hours of credit for the M.A. in Spanish will count toward the 84 credit hours.
4. Each candidate is expected to demonstrate a reading knowledge of two languages other than English and Spanish. The language requirements must be satisfied before the candidate is eligible to take the comprehensive examination.
5. A written and oral comprehensive examination, designed to ascertain the candidate's knowledge and orientation in the field of study and competency to proceed with the dissertation, is required at or near the end of course work.
6. The candidate must present an acceptable dissertation based on original investigation. The dissertation must represent a significant contribution to knowledge and demonstrate the candidate’s ability to do independent, scholarly research.
7. A final oral examination is required. This examination covers the subject matter of the dissertation and appropriate field.

**Admission Requirements:** All candidates for the Ph.D. in Spanish must fulfill the general requirements of the Graduate College concerning admission and residence.

Candidates for the doctorate in Spanish will be required to demonstrate a near-native oral proficiency in Spanish and to show that they have developed a high order of expository prose in English and Spanish by presenting a term paper or a
The Spanish graduate program requires a 3.75 overall GPA (on a 4.00 scale).

Admission to the Spanish doctoral program requires the candidate to present an M.A. in Spanish or equivalent from an accredited institution.

The committee may request letters of recommendation regarding the applicant’s command of Spanish and potential for doctoral work. A personal interview may also be appropriate.

It is recommended, but not required, that students applying for admission to the M.A. or Ph.D. program submit scores on the GRE; this is especially advisable for the applicants for Spanish Graduate Fellowship Award.

Contact:
School of International Letters and Cultures
http://silc.asu.edu/graduate
silc@asu.edu
LL 440
480/965-6281

**Statistics (PHD) LASTPPHD**
College of Liberal Arts and Sciences

**Official Degree Awarded:** PHD Statistics

**Program Description:** Statistics has been described as the science of learning from data. Statisticians are involved with collecting data, analyzing it, interpreting it and helping to make decisions based on it.

The Ph.D. program in statistics will train statisticians for positions locally and nationally in business, industry, government and academia. Graduates of the program will be able to not only use advanced statistical methods but also to develop new methods to meet the fast growing need for analysis of data arising in many areas.

The statistics Ph.D. program faculty consists of the committee on statistics which also offers a program leading to the degree M.S. in statistics. The program is interdisciplinary in that it draws upon faculty research and teaching interests from various academic units so that programs of study can be tailored to reflect individual needs and goals. The committee, which sets program requirements and supervises programs of study, is composed of faculty from departments in the Ira A. Fulton School of Engineering, the College of Liberal Arts and Sciences, the W.P. Carey School of Business and the New College of Interdisciplinary Arts and Sciences.
Program Requirement: Ph.D. students must complete 84 credit hours of course work including:

1. 15 credit hours of core course work (mathematical statistics, probability, STP 526, STP 530 or IEE 578, STP 531 or IEE 572).
2. 45 credit hours of elective statistics or related area courses approved by the student's supervisory committee.
3. 12 credit hours of research (792).
4. 12 credit hours of dissertation (799).

Students must pass:

1. One qualifier examination.
2. A written comprehensive examination.
3. An oral comprehensive examination.

Each student must write a dissertation and defend it orally in front of five dissertation committee members. See the department Web site for examination information.

Admission Requirements: Applicants must satisfy the general requirements for admission to the Graduate College. Applicants must submit the Graduate College online application.

Minimum background for consideration of admission to the graduate program in statistics includes:

1. A bachelor's degree in statistics, mathematics or a closely related area with a 3.00 GPA.
2. Applicants should have completed the following courses (equivalents at ASU are given in parentheses): calculus (MAT 270, 271 and 272), advanced calculus (MAT 371), linear algebra (MAT 342), computer programming (CSE 100), and introductory applied statistics (QBA 221 or STP 420).
3. Applicants who lack any of these prerequisite courses must complete the prerequisites before being considered for admission.
4. The submission of GRE scores is strongly encouraged, but not required.

Contact:
School of Mathematical and Statistical Sciences
http://math.asu.edu/graduate/statistics.html
grad@math.la.asu.edu
PSA 216
480/965-3951

Teaching English to Speakers of Other Languages (MTESOL) LAENGMTESL
College of Liberal Arts and Sciences
Official Degree Awarded: MTE Speake Teaching English as a Second Language

Program Description: The faculty in the Department of English offer a professional program leading to the Master of Teaching English to Speakers of Other Languages (MTESOL). This specialized degree program provides students with the knowledge and the skills necessary to teach English as a second language.

Program Requirement: The program requires a minimum of 30 credit hours of approved graduate course work and must include:

1. LIN 500 Research Methods
2. LIN 510 Linguistics.
3. LIN 520 Second-Language Acquisition Theories.
4. LIN 521 Methods of Teaching English to Speakers of Other Languages.
5. A three-hour applied project (LIN 593) overseen by the supervisory committee.
6. An internship is recommended if a student has no teaching experience.

Foreign Language Requirements: a foreign language is required, to be completed during the program. International students whose native language is not English may fulfill the foreign language requirement by:

1. Providing evidence that English is not the medium of instruction at their native-language universities.
2. Satisfactorily completing the Test of Spoken English (TSE).

Applied Project: a three-hour applied project (LIN 593) that is overseen by the director, chosen from the English department linguistics/TESOL faculty, is required. Two additional faculty members serve with the director to form a committee for the final oral examination on the project.

Final Examination: an oral examination on the applied project is required.

Admission Requirements: Applicants for the MTESOL may have undergraduate majors in fields such as, but not limited to:

- Anthropology.
- Applied linguistics.
- Cognitive science.
- Communication.
- Comparative languages and literatures.
- Education.
- English literature.
- History.
- Law.
- Linguistics.
- Modern languages.
• Philosophy.
• Political science.
• Psychology.
• Religion.
• Rhetoric/composition.
• Sociology.
• Speech and hearing science.

Students should consult with an advisor to determine whether their preparation is deficient in any area. Applicants must submit three letters of recommendation and a statement of purpose.

The deadline is Feb. 1.

All applicants must meet the general requirements for admission to the Graduate College.

International students must submit a Test of English as a Foreign Language (TOEFL) score of at least 600, or 250 computer-based.

Contact:
Department of English
http://english.clas.asu.edu/gradstudies-mtesol
enggrad@asu.edu
LL 543B
4809653194

**Urban & Environmental Planning (MUEP) ARURBMUEP**

College of Design

**Official Degree Awarded:** MU/EP Urban and Environmental Planning

**Program Description:** The M.U.E.P. is an interdisciplinary professional degree designed to prepare students for leadership roles in planning, in both the public and private sectors, within organizations ranging in scope from local to international. The M.U.E.P. is accredited by the Planning Accreditation Board. The curriculum includes a common core of required courses that provides linkage between knowledge and practice, and fundamental theories and skills.

The four specializations offered are community and urban development, environmental planning, international planning and transportation planning.

The community and urban development specialization provides students with knowledge and skills in areas such as housing, economic and community development, public policy analysis, transportation, land use planning, urban design and historic preservation.
The environmental planning specialization provides students with knowledge and skills in such areas as sustainable design, environmental resources, growth management, environmental policy analysis, open space design, and conservation.

The international planning specialization prepares planners to work in the diverse and changing urban fabric of developing nations and in U.S. cities, with their growing multinational and multicultural populations.

The transportation planning specialization focuses on nonmotorized transportation, economic development, border issues and the environment.

Specializations provide connections between the School of Planning and the other disciplines in the university. Students have a unique opportunity to integrate urban and environmental aspects of planning in rapidly developing metropolitan areas in the demographic and climatic context of the southwest region of the United States.

*Program Requirement:* An approved program of study for the M.U.E.P. is 47 credit hours. The program has the typical distribution as follows:

- Required core courses, including either the capstone studio, thesis or professional project (26 credit hours).
- Specialization courses (12 credit hours).
- Electives (9 credit hours).

Students must complete the required core courses and select an area of specialization. Students must also select a capstone studio, a professional project or a thesis option. Successful completion of an approved statistics course, if not achieved by the student as an undergraduate, will be required as a deficiency.

*Admission Requirements:* To be considered for the program, the applicant must fulfill all admission requirements of the Graduate College, in addition to meeting admission requirements of the School of Planning. The following materials are required by the School of Planning:

1. An application to the Graduate College.
2. Official transcripts from all other colleges and universities attended.
3. A statement of intent (maximum 600 words) explaining:
   - The applicant’s interest in planning.
   - The applicant’s academic and professional background and, if appropriate, preparation for the selected area of specialty (this may include written samples or a portfolio, but they are not required).
   - The applicant’s educational objectives.
4. Test of English as a Foreign Language (TOEFL) scores from international students whose native language is not English.
5. Three letters of recommendation from references who are qualified to comment on the applicant’s potential in the selected area of study.
6. A current résumé.
Women & Gender Studies (Grad Certificate) LAWSTGRCT

Official Degree Awarded: CERT Gender Studies (certificate)

Program Description: The academic study of gender is increasingly recognized as central across academic fields, from literature to psychology to biology and law. The graduate certificate in women and gender studies provides a solid background in this field and supplements students' work in their majors.

Program Requirement: This graduate certificate program requires 15 credit hours of course work.

Admission Requirements: Applicants must submit an online Graduate College application.

Contact:
School of Social Transformation
http://wgs.asu.edu/
wgs.asutempe@asu.edu
WHALL 205
480/965-2358

New College of Interdisciplinary Arts and Sciences

Communication Studies (MA) ASCOMSTMA
New College of Interdisciplinary Arts and Sciences

Official Degree Awarded: MA Communication Studies

Program Description: The M.A. in communication studies prepares students for communication-intensive roles in such fields as:

- Community relations.
- Employee communication.
- Grass-roots advocacy.
- Health communication.
- Media campaigns.
- Political communication.
- Public affairs.
- Technology-mediated communication systems.
A substantive number of graduates pursue the Ph.D. and careers in teaching and research.

Within the M.A. in communication studies, the notion of advocacy is explored. This is achieved by examining advocacy across the discipline’s traditional classifications and within a variety of contexts. This approach allows faculty to journey with students to discover and attend to advocacy in new and unique ways, to collectively theorize and practice advocacy. People who come to our program join the faculty in this endeavor.

The advocacy occurs at the intersection of public and private lives, in the space where the two overlap and mutually inform one another, often in complex and challenging ways. It is here that we seek to uncover the ways in which symbols, messages and meaning are constructed and arranged to establish, facilitate, enhance or detract from the social status, social support and/or social identity of particular and often marginalized groups. Although the faculty recognize fully that one can advocate on one’s own behalf, the faculty believe that the true work of advocacy involves attending to the other. Advocacy, though, is not limited simply to speaking directly on another’s behalf. Rather, advocacy involves working diligently and ethically to create a space, whether it is public or private, in which the other can speak for himself or herself. The advocate uses communication theory and practice to reclaim space for and to provide voice to the other. Advocacy is a calling to the responsibility we have for others in the global age. The M.A. in communication studies seeks to provide those interested in advocacy the opportunity to develop the intellectual and conceptual skills necessary to follow that calling.

Program Requirement: The degree consists of 36 credit hours of course work at the 500-level or above, including these courses:

- W CMN 502 Theory and Practice in Communication and Persuasion (3) or W CMN 522 Argumentation and Advocacy (3)
- W CMN 505 Methods in Applied Communication Research (3)
- W CMN 506 Humanistic Inquiry and Field Research in Communication (3)
- Electives* (21)
- Thesis or applied project (6) or written comprehensive examination plus six credit hours of course work (6)

* At least 21 credit hours of electives are selected in consultation with the student’s program advisor. When appropriate, students may take up to six credit hours outside the department.

Additional Requirements
COM 502 or 522, 505, and 506 must be completed with a grade of “B” (3.00) or higher. In addition, the student must earn a cumulative GPA of 3.00 or higher in all courses numbered 500 or above that appear on the transcript and all courses that appear on the program of study.
The determination of requirements for each student’s program of study is the mutual responsibility of the student and his or her advisor. Students are permitted to take comprehensive examinations only concurrent with, or subsequent to, completion of their 36th credit hour of course work. Students who choose to complete the thesis or applied project option are permitted to register for thesis or applied project credit hours only concurrent with, or subsequent to, completion of their 24th credit hour of course work.

**Thesis or Applied Project**
The thesis or applied project must demonstrate intellectual, academic, and/or professional growth and ability. The thesis or applied project are supervised and approved by the student’s advisor and committee. An oral defense is required for the thesis or applied project.

Descriptions of current program options and requirements are available from the Department of Communication Studies office in FAB N301G.

**Admission Requirements:** Admission to the program is competitive, based on an applicant’s undergraduate scholarly activities, research abilities and professional experience. All applicants must submit the following:

1. A completed Graduate College application and official transcripts of all undergraduate and graduate work.
2. A 500-word personal statement indicating professional goals and addressing how the program will aid in the achievement of those goals.
3. Three letters of recommendation, up to two of which may come from appropriate professional, nonacademic sources.
4. A writing sample of scholarly work or an example of professional activities (i.e., technical reports, grants, creative campaign).
5. If the undergraduate cumulative GPA is below 3.00 for the last 60 credit hours, official GRE scores are required.

Students whose native language is not English must also achieve a minimum test score of 550 paper-based, 213 computer-based or 83 Internet-based on the Test of English as a Foreign Language (TOEFL) or a minimum overall score of 6.5 on the International English Language Testing System (IELTS).

**Contact:**
Division of Social and Behavioral Sciences – W
http://newcollege.asu.edu/programs/comm_studies_ma/
comm_studies@asu.edu
FABN301G
602/543-6266

**Interdisciplinary Studies (MA) ASINTERMA**
New College of Interdisciplinary Arts and Sciences
Official Degree Awarded: MA Interdisciplinary Studies

Program Description: The M.A. in interdisciplinary studies is a graduate program designed to fulfill the needs of postbaccalaureate students who wish to pursue an advanced degree for:

- Job advancement or redirection.
- Personal development and intellectual growth.
- Preparation for further graduate study.

Prospective students include those working in the public educational system, particularly community college and 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 degree is composed of 30 credit hours of course work. Three required core courses 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 plans 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 Arizona State University colleges and schools with approval from the director. Examples include a plan to study ethics and environment, media and ethnicity, urban studies and applied arts. The program concludes with a capstone experience requiring a written or applied project.

Program Requirement: This 30-credit-hour degree program requires a capstone course and the following courses:

Required courses:
- MAS 501 Models of Inquiry for Contemporary Issues (3)
- MAS 502 Perspectives in Interdisciplinary Studies (3)
- MAS 505 20th-Century Thought: Concepts of Change, Culture and Mind (3)
- MAS 585 Capstone Course (3)
- Emphasis area (15-18)
- Elective (0-3)

Emphasis Area:
Working with a faculty mentor, students select 15 to 18 credit hours of graduate-level course work that reflects a particular area of specialty or interest.

Admission Requirements: Applicants must submit the Graduate College online application. Admission to the master's program is open to individuals who have:

1. A bachelor's degree from institutions with regional accreditation.
2. Demonstrated promise of success through previous schooling and experience.
3. Academic and career goals that are compatible with the educational objectives of the program.
4. A GRE score may be required dependent upon the applicant’s prior academic record.

Contact:
Division of Humanities, Arts, and Cultural Studies
http://newcollege.asu.edu
mais@asu.edu
FAB N 301F
602/543-6241

Social Justice and Human Rights (MA) ASJHRMA
New College of Interdisciplinary Arts and Sciences

Official Degree Awarded: MA Social Justice and Human Rights

Program Description: The M.A. in social justice and human rights offers justice and human rights approaches to specific issues such as health, education, work, migration, child and family issues and the environment. These issues are approached in a context influenced by the intersection of gender, race, ethnicity, sexuality, location and/or nationality. The program provides a theoretically and methodologically rigorous program that will offer opportunities for skill specialization in research and/or in the management of advocacy-oriented organizations in the nongovernmental sector, both domestically and transnationally. Students choose one of two tracks: social justice and human rights research or NGO management.

The program is structured so that current practitioners in NGOs and other nontraditional students are able to complete their degree requirements by spending two semesters on campus and completing the remainder of their degree requirements back at their place of work in whatever location or country that may be. The remaining course work can be completed via a summer internship and a semester off campus to complete the capstone experience in the field. Many students will remain on campus for their entire program of study.

Program Requirement: The 33-credit-hour program includes:

1. Core requirements, 21 credits.
2. Career-oriented tracks, six credits.
3. Electives, six credits.

Core Requirements (21)

JHR 500 Research Design (3)
JHR 501 Proseminar in Social Justice and Human Rights (3)
JHR 506 Grant Writing and Development for Social Justice and Human Rights (3)  
JHR 510 Problem-Based Seminar in Social Justice and Human Rights (3)  
JHR 511 Community-Embedded Seminar in Social Justice and Human Rights (3)  
JHR 584 Internship (3)  
JHR 593 Applied Project (3)  
JHR 599 Thesis (6)  

**Career-oriented Tracks (6)**

In consultation with the program director, each student will either select either two management courses or two research courses.

**Elective Courses (6)**

In consultation with the program director, each student is required to complete two additional courses that fit their program.

**Admission Requirements:** Admission is granted on a competitive basis. To be admitted to the M.A. in social justice and human rights program, candidates must have a four-year bachelor’s degree from a regionally accredited institution and must submit the following:

1. A completed Graduate College application.
2. Official transcripts of all undergraduate and graduate course work.
3. Official GRE scores.
4. A personal statement.
5. Two letters of recommendation.
6. Resume.

Completion of an undergraduate research methods or statistics course is recommended but not required.

The GRE requirement may be waived if the applicant has successfully completed graduate level course work.

**Deadlines**

**Fall Semester**  
Priority: Feb. 1  
Final: July 1

**Spring Semester**  
Priority: Oct. 1  
Final: Nov. 1
Nursing and Health Innovation, College of
Adult Nurse Practitioner (DNP) NUANPADDNP
College of Nursing & Health Innovation

Official Degree Awarded: DNP Advanced Nursing Practice (Adult Nurse Practitioner)

Program Description: The faculty in the College of Nursing and Health Innovation offer a graduate program leading to the D.N.P. with a concentration in advanced practice nursing of adults. Designed for nurses seeking to become an advanced practice nurse as an adult nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced pathophysiology, and advanced health assessment, advanced practice nursing role provide a foundation for this specialty.

Graduates of the D.N.P. program of the adult health concentration are prepared to provide primary care to adults who are in various states of health in a variety of settings. Health promotion and illness prevention are among the essential threads integrated throughout the program of study. Approximately one-third of the curriculum in each course is delivered in a traditional classroom setting, and two-thirds is completed in a Web-based format. Several different modalities are used to enhance the student’s learning, including multimedia presentations, asynchronous discussion boards and live chats.

Focused clinical experiences are arranged with preceptors and administrators in the student’s local healthcare setting. Rural health and experiences with disadvantaged and multicultural populations are encouraged.

Program Requirement: The program requires completion of 84 credit hours of course work and research. The Association of Nursing for Critical Care (ANCC) has recommended a minimum of 1,000 post-baccalaureate hours for all students completing a D.N.P. The College of Nursing and Health Innovation’s program allows post-baccalaureate entry students to complete 630 hours of supervised clinical in their chosen specialty before receiving their M.S. This will allow students to then meet the requirements for certification and licensure in their specialty.

The additional 450 hours are completed after certification and licensure while practicing as an advanced practice nurse and completing the final D.N.P. courses.
The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to carry out the project in a practice setting (work settings may be included, but specific objectives will be developed individually with each student, that may be different from the student’s job). Each project will be developed individually with each student.

**Admission Requirements:** All applicants must submit the Graduate College online application. Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor’s or graduate degree attained.
2. A bachelor’s degree in nursing (or another field) accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant.

**Contact:**
College of Nursing & Health Innovation
http://nursing.asu.edu/index.htm
gponursing@asu.edu
NHI 358B
602/496-0857

**Adult Psychiatric Mental Health Nurse Practitioner (DNP) NUANPPMDNP**
College of Nursing & Health Innovation

**Official Degree Awarded:** DNP Advanced Nursing Practice (Adult Psychiatric Mental Health Nurse Practitioner)

**Program Description:** Designed for nurses seeking to become an advanced practice nurse as a psychiatric mental health nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced pathophysiology, and advanced health assessment, advanced practice nursing role provide a foundation for this specialty. Graduate education in psychiatric/mental health nursing gives opportunities for greater autonomy in practice, diverse employment opportunities, research and teaching capabilities, and advanced assessment and intervention skills. Approximately one-third of the curriculum in each course is delivered in a traditional classroom setting, and two-thirds is completed in a Web-based format. Several different modalities are used to
enhance the student’s learning, including multimedia presentations, asynchronous discussion boards, and live chats.

Focused clinical experiences are arranged with preceptors and administrators in the student’s local healthcare setting. Rural health and experiences with disadvantaged and multicultural populations are encouraged.

**Program Requirement:** The D.N.P. requires 84 credit hours of course work. The American Nurses Credentialing Center (ANCC) has recommended a minimum of 1,000 post-baccalaureate practicum hours for all students completing a D.N.P. The College of Nursing and Health Innovation’s program allows post-baccalaureate entry students to complete 630 hours of the 1,000 required clinical practice hours and then receive their M.S. while continuing in the D.N.P. program. This will allow students to then meet the requirements for certification and licensure in their specialty. The additional 540 hours are completed after certification and licensure while practicing as an advance practice nurse and completing the final D.N.P. courses.

Post-master’s entry applicants should have an idea for a project developed before entry and will complete 540 hours of clinical practice residency hours and the D.N.P. courses. The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to carry out the project in a practice setting (work settings may be included, but specific objectives will be developed individually with each student, that may be different from the student’s job). Each project will be developed individually with each student.

**Admission Requirements:** Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor’s or graduate degree attained.
2. Completion of a bachelor’s degree in nursing accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant’s academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/index.htm
gponursing@asu.edu
NH 158A
602/496-0857

**Advanced Nursing Practice - DNP NUANPDNP**
College of Nursing & Health Innovation

**Official Degree Awarded:** DNP Advanced Nursing Practice

**Program Description:** The D.N.P. program is focused on improving healthcare through facilitating a culture of best practice, and providing the additional skills necessary to develop the advanced practice nursing leader for the future. For information about the concentrations offered under this degree, see http://nursing.asu.edu/programs/graduate.

**Program Requirement:** The D.N.P. requires 84 credit hours of course work. The American Nurses Credentialing Center (ANCC) has recommended a minimum of 1,000 post-baccalaureate practicum hours for all students completing a D.N.P. The College of Nursing and Health Innovation's program allows post-baccalaureate entry students to complete 630 hours of the 1,000 required clinical practice hours and receive their M.S. while continuing in the D.N.P. program. This will allow students to then meet the requirements for certification and licensure in their specialty. The additional 540 hours are completed after certification and licensure while practicing as an advance practice nurse and completing the final D.N.P. courses.

Post-master’s entry applicants should have an idea for a project developed before entry and will complete 540 hours of clinical practice residency hours and the D.N.P. courses. The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to complete the project in a practice setting (work settings may be included, but specific objectives will be developed individually with each student, that may be different from the student’s job). Each project will be developed individually with each student.

**Admission Requirements:** Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor’s or graduate degree attained.
2. Completion of a bachelor’s degree in nursing accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant’s academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.

While all interested applicants are encouraged to apply, applicants who reside and work, or plan to reside or work, in rural or medically underserved areas are especially encouraged to apply for admission. Applications to the program are due as follows:

- Post-baccalaureate applications due Jan. 1.
- Post-master’s applications due Sept. 1.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu
gponursing@asu.edu
NHI 158A
602/496-0857

Child and Adolescent Mental Health Intervention Specialist (Grad Certificate)
NUCAMHICE

Official Degree Awarded: CERT Child and Adolescent Mental Health Intervention (certificate)

Program Description: The College of Nursing and Health Innovation at ASU offers the nation’s first child and adolescent mental health intervention specialist graduate certificate program. This innovative program is designed specifically for pediatric and family nurse practitioners, physicians and other interdisciplinary healthcare providers who desire to enhance their knowledge and skills in the assessment and management of common mental and behavioral health problems in children and adolescents.

Program Requirement: This 15-credit-hour graduate certificate curriculum is predominantly an online distance education program with two, two-day visits to the ASU Downtown Phoenix campus for orientation and intensive learning. Nine credit hours of this program can be transferred into the college's online post-master's child/family psychiatric mental health nurse practitioner program for those
students desiring more depth in assessing and treating child and adolescent mental health problems as a child/family psychiatric mental health nurse practitioner.

**Admission Requirements:** All applicants must submit the Graduate College online application. Applicants must either have a M.S. in nursing and work as a pediatric/family nurse practitioner or pediatric clinical nurse specialist, or be a health-related professional (e.g., physician, social worker, physician assistant) with experience in child and adolescent behavioral and mental health. Current healthcare licensure in the applicant’s state of residence is needed for admission to the certificate program.

**Contact:**
College of Nursing & Health Innovation
http://nursing.asu.edu
gponursing@asu.edu
NHI 472
602/496-0869

**Child/Family Mental Health Nurse Practitioner (Grad Certificate) NUPMNUPRCE**

**Official Degree Awarded:** CERT Child/Family Mental Health Nurse Practitioner (certificate)

**Program Description:** Designed for nurses seeking to become an advanced practice nurse as a child/family psychiatric mental health nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced pathophysiology and advanced health assessment provide a foundation for this specialty. Graduate education in psychiatric/mental health nursing gives opportunities for greater autonomy in practice, diverse employment opportunities, research and teaching capabilities and advanced assessment and intervention skills. Focused clinical experiences are arranged with preceptors and administrators in the student’s local healthcare setting. Rural health and experiences with disadvantaged and multicultural populations are encouraged.

Courses are taught in a hybrid online format. Approximately one-third of the curriculum in each course is delivered in a traditional classroom setting, and two-thirds is completed in a Web-based format. Several different modalities are used to enhance the student’s learning, including multimedia presentations, asynchronous discussion boards and live chats.

**Program Requirement:** A 28-credit-hour graduate certificate program (including 585 clinical hours) to prepare nurses with a master’s degree to become child/family psychiatric nurse practitioners.

**Prerequisites required:**

- DNP 604 and 630 Human Pathophysiology (3)
- DNP 608 Pharmacology (2)
- DNP 605 and DNP 631 Advanced Health Assessment (3)
DNP 609 and 610 Advanced Practice Nursing Role (3); or equivalent courses taken in master's degree program.

Students will have an individual review of their transcripts and an individualized plan of study designed. Depending on how many of the prerequisite courses are completed in master’s degree, up to 1 1/2 years of additional study may need to be added to complete this specialty.

Admission Requirements:

1. Master of Science in nursing.
2. Official transcripts from all universities.
3. Unencumbered R.N. license in state where you plan to do your clinical practicum experience. Students who live out of state can complete their clinical practicums in their own state if suitable practicum sites are available and they agree to contract with the College of Nursing and Health Innovation. If suitable sites are not available, the student would need to complete practicum experiences in Arizona and become licensed in Arizona. Students may also be required to demonstrate skills in simulation labs at the College of Nursing and Health Innovation in addition to regular immersion sessions.
5. Three professional references.
6. Interview.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu
NHI
602/496-0857

Child/Family Psychiatric Mental Health Nurse Practitioner - DNP NUANPCFDNP
College of Nursing & Health Innovation

Official Degree Awarded: DNP Advanced Nursing Practice (Child/Family Psychiatric Mental Health Nurse Practitioner)

Program Description: The child/family psychiatric mental health nurse practitioner program is designed for nurses seeking to become an advanced practice nurse as a psychiatric mental health nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced pathophysiology, advanced health assessment and advanced practice nursing provide a foundation for this specialty.

Graduate education in psychiatric mental health nursing gives opportunities for greater autonomy in practice, diverse employment opportunities, research and teaching capabilities, and advanced assessment and intervention skills. Approximately one-third of the curriculum in each course is delivered in a traditional classroom setting, and two-thirds is completed in a Web-based format.
Several different modalities are used to enhance the student's learning, including multimedia presentations, asynchronous discussion boards and live chats.

Focused clinical experiences are arranged with preceptors and administrators in the student’s local healthcare setting. Rural health and experiences with disadvantaged and multicultural populations are encouraged.

Program Requirement: The D.N.P. requires 84 credit hours of course work. The American Nurses Credentialing Center (ANCC) has recommended a minimum of 1,000 post-baccalaureate practicum hours for all students completing a D.N.P. The College of Nursing and Health Innovation’s program allows post-baccalaureate entry students to complete 630 hours of the 1,000 required clinical practice hours and then receive their M.S. while continuing in the D.N.P. program. This will allow students to then meet the requirements for certification and licensure in their specialty. The additional 540 hours are completed after certification and licensure while practicing as an advance practice nurse and completing the final DNP courses.

Post-master entry applicants should have an idea for a project developed before entry and will complete 540 hours of clinical practice residency hours and the D.N.P. courses. The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to carry out the project in a practice setting (work settings may be included, but specific objectives will be developed individually with each student, that may be different from the student’s job). Each project will be developed individually with each student.

Admission Requirements: Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor’s or graduate degree attained.
2. Completion of a bachelor’s degree in nursing accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant’s academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.
Clinical Research Management, Nursing (MS) NUCRMMS
College of Nursing & Health Innovation

Official Degree Awarded: MS Clinical Research Management

Program Description: The M.S. in clinical research management (CRM) attracts nurses and health care professionals throughout the nation and internationally for advanced education as clinical research professionals in the diversified and complex clinical research industry. The roles of clinical research managers are rapidly growing. The career field is particularly suited for nurses, physicians and other healthcare professionals. Healthcare professionals from fields outside of nursing may complete the curriculum to obtain an M.S. in CRM, with completion of stated prerequisites.

The CRM specialty takes a multidisciplinary approach in providing an education strong in clinical research, business and financial practices, ethical and regulatory aspects of research and overall management of clinical drug, biological and medical device trials. The program is designed to be flexible and conducive to the adult learner.

Program Requirement: The 33-credit-hour CRM M.S. program is offered online with an initial three- or four-day immersion/practicum program. A six-credit-hour, capstone clinical research project is required, and part-time study is available.

Admission Requirements: All applicants must be admitted to the ASU Graduate College.

To be considered for this program, the applicant must have either of the following:

- A bachelor’s degree in nursing or related field.
- A bachelor’s degree with healthcare-related experience and completion of all prerequisite courses. The following undergraduate three-credit prerequisite courses, or the equivalent, must be completed with a grade of “C” (2.00) or better:
  - Anatomy and physiology.
  - Health policy.
  - Healthcare system overview.
  - Medical terminology.
Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/research/chict/crm/ms/index.htm
gponursing@asu.edu
NHI 411
602/496-0935

Community Health Nursing (MS) NUCHNDTMS
College of Nursing & Health Innovation

Official Degree Awarded: MS Nursing (Community Health Advanced Practice Nursing)

Program Description: The community health nursing graduate program provides theoretical and practical foundations for advanced practice in community/public health nursing in public or private sector health care settings. Graduate courses in nursing theory, research, epidemiology and biostatistics provide a foundation for practice in community/public health nursing. By combining public/community health theory with nursing theory and research, the community health nurse considers all influences on the population and community in decision making and outcome evaluation. The major focus in this specialty area is on utilizing public health sciences and skills in the assessment of communities and populations, policy development, program planning, effective communication and the impact of cultural influences on health. The graduate in community/public health is actively engaged in education (e.g., community, staff, students and colleagues), case management, expert clinical practice, consultation, research and administration.

Program Requirement: The Master of Science Community Health Nursing Program requires 45 credit hours of course work and an applied project. The practicum and internship requirements include 540 clock hours. At the completion of the program, students are eligible to take the American Nurses Credentialing Center exam for national certification as an Advanced Public Health Nurse (APHN-BC).

Admission Requirements: Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior/senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any undergraduate or graduate degree attained.
2. Completion of a baccalaureate degree in nursing accredited by a regional accrediting agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of only the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant’s academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of English language proficiency per Graduate College requirements and of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.

Applications to the program are due each year by March 1 for fall semester enrollment.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/
gponursing@asu.edu
NHI 158B
6024960703

Community and Public Health Practice (Grad Certificate) NUCHPGRCH
Official Degree Awarded: CERT Community and Public Health Practice (certificate)

Program Description: The graduate certificate in community and public health practice is directed toward students with bachelor’s degrees who currently work in community or public health or other relevant fields and who want to solve public health problems and apply a breadth of knowledge and expertise in the community.

Program Requirement: The curriculum consists of a minimum of 16 credit hours of graduate study that may be applied toward the M.S. if the student is concurrently enrolled in the M.S. program. Part-time study is available.

Admission Requirements: Admission to the certificate program requires a bachelor’s degree (in nursing or a related field) and an interest in increasing knowledge in community/public health. Current students in master’s or doctorate programs at ASU are also qualified. Applicants must meet admission criteria of the Graduate College for graduate certificates and must submit the Graduate College online application.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/
gponursing@asu.edu
NHI 158B
6024960703

Evidence-Based Practice Nursing Science (Grad Certificate) NUEVIDNSCE
Official Degree Awarded: CERT Evidence-Based Practice in Nursing and Healthcare (certificate)
Program Description: The graduate certificate in evidence-based practice in nursing and healthcare is an online graduate certificate program designed to prepare nurse clinicians, educators and other healthcare professionals as experts in evidence-based practice (EBP).

Program Requirement: This 17-credit-hour, 18-month graduate certificate program is user-friendly and constructed in a distance-learning, online format to facilitate involvement of participants throughout the U.S. and the world. Two on-site visits to ASU are required. The initial visit is a three-day orientation and the final visit is a three-day immersion residency fellowship that culminates the program.

Admission Requirements: Admission requirements include all Graduate College admission requirements; completion of an accredited master's degree program with a 3.00 cumulative GPA; or current enrollment in an accredited master's program with a cumulative 3.00 GPA and approval by program director.

Applicants must:
1. Complete graduate admission application and online survey.
2. Submit a letter of recommendation from an academic advisor or supervisor supporting the applicant's enrollment.
3. Submit official transcripts from a master's program.
4. Submit a curriculum vitae or resume.

Admission is granted once a year and classes begin in January. Application deadline is Oct. 1.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/
gponursing@asu.edu
NH 1 158B
602/496-0703

Family Nurse Practitioner - DNP NUANPFNDNP
College of Nursing & Health Innovation

Official Degree Awarded: DNP Advanced Nursing Practice (Family Nurse Practitioner)

Program Description: Designed for nurses seeking to become an advanced practice nurse as a family health nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced pathophysiology and advanced health assessment, advanced practice nursing role provide a foundation for this specialty. The focus in courses is on development of expertise in providing primary care to individuals of all ages within traditional, nontraditional and culturally diverse families. Theory and practicum courses are designed to prepare the student for certification in advanced practice nursing as a
family nurse practitioner.

Approximately one-third of the curriculum in each course is delivered in a traditional classroom setting, and two-thirds is completed in a Web-based format. Several different modalities are used to enhance student learning, including multimedia presentations, asynchronous discussion boards and live chats.

Focused clinical experiences are arranged with preceptors and administrators in the student’s local healthcare setting. Rural health and experiences with disadvantaged and multicultural populations are encouraged.

**Program Requirement:** The D.N.P. requires 84 credit hours of course work. The American Nurses Credentialing Center (ANCC) has recommended a minimum of 1,000 post-baccalaureate practicum hours for all students completing a D.N.P. The College of Nursing and Health Innovation’s program allows post-baccalaureate entry students to complete 630 hours of the 1,000 required clinical practice hours and then receive their M.S. while continuing in the D.N.P. program. This will allow students to then meet the requirements for certification and licensure in their specialty. The additional 540 hours are completed after certification and licensure while practicing as an advance practice nurse and completing the final D.N.P. courses.

Post-master entry applicants should have an idea for a project developed before entry and will complete 540 hours of clinical practice residency hours and the D.N.P. courses. The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to carry out the project in a practice setting (work settings may be included, but specific objectives will be developed individually with each student, that may be different from the student’s job). Each project will be developed individually with each student.

**Admission Requirements:** Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor's or graduate degree attained.
2. Completion of a bachelor’s degree in nursing accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant’s academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu
gponursing@asu.edu
NHI 158A
602/496-0857

Healthcare Innovation (MHI) NUHCINNMHI
College of Nursing & Health Innovation

Official Degree Awarded: Mhealthin Healthcare Innovation

Program Description: The M.H.I. is a 33-credit (one-year full-time or two-year part-time) master’s degree program using a hybrid online format open to nursing and non-nursing students working and living at a distance. This program is an initiative led by the ASU College of Nursing and Health Innovation in collaboration with the Herberger Institute for Design and the Arts and the Hugh Downs School of Human Communications.

Program Requirement: The M.H.I. requires 33 credit hours. The curriculum also requires the completion of an applied project as the culminating experience. The curriculum uses a “hybrid online format” to distinguish it from a traditional distance learning program. This unique curriculum and hybrid online format allows students to have face-to-face contact with each other and healthcare leaders during four- to five-day immersion sessions. These sessions entail eight-hour days at the beginning of each semester and two days at mid-semester. The rest of the course work is held online, using both synchronous (i.e., everyone is online in class at the same time) and asynchronous formats, utilizing voiced-over lectures or discussion boards, such as the Blackboard course management system and other online learning tools.

Admission Requirements: Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor's or graduate degree attained.
2. A bachelor's degree in nursing (or another field) accredited by a nationally recognized and regionally accredited university.
3. Three professional recommendations from individuals knowledgeable about the applicant’s academic and leadership potential and one self-evaluation.
4. An interview with a representative of the program faculty.
5. Eligibility for admission to the Graduate College.
6. Completion of the English language proficiency test per graduate college
   requirements, if considered an international student. Applications to the
   program are due each year by March 1 for fall semester enrollment.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/programs/graduate/mhi
gponursing@asu.edu
NHI 158B
6024960703

International Health for Healthcare Professionals (Grad Certificate) NUHCRGRCI
Official Degree Awarded: CERT International Health for Healthcare Professionals
(certificate)

Program Description: The graduate certificate in international health for health
professionals targets and prepares primary care providers and other healthcare
professionals in Arizona and throughout the nation who provide care for an
increasingly diverse clientele. The program provides an overview of transborder
and international health issues in the presence and absence of natural and human
made disasters that incorporate and cultural and health immersion experiences.

Program Requirement: The 16-credit-hour international health for health
professionals graduate certificate is offered as a hybrid online distance program
with immersion sessions.

Admission Requirements: Admission to graduate status in the College of Nursing and
Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA
equal to 3.00 (4.00=A) or higher for any bachelor’s or graduate degree
attained.
2. Undergraduate-prepared nurse or health related professional (e.g., social
worker, physician, psychologist, dentist) with a bachelor’s, master’s or
medical degree from a nationally recognized and regionally accredited
university or equivalent.
3. Professional license in the state where the individual capstone project will be
conducted, if required (e.g., R.N., N.P., M.S.W., P.A. or M.D.).
4. Resume or curriculum vitae.
5. Application questionnaire and self-assessment form.
6. Three professional recommendations from individuals knowledgeable about
the applicant’s academic potential.
8. Poof of a current, valid passport.
9. Eligibility for admission to the Graduate College.
10. Completion of the English language proficiency test per graduate college requirements, if considered an international student.

Applications to the program are due each year by March 1 for fall semester enrollment.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/international
gponursing@asu.edu
NHI 158B
602/496-0703

**Neonatal Nurse Practitioner - DNP NUANPNDNP**
College of Nursing & Health Innovation

*Official Degree Awarded:* DNP Advanced Nursing Practice (Neonatal Nurse Practitioner)

*Program Description:* Designed for nurses seeking to become an advanced practice nurse as a neonatal nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced pathophysiology, advanced health assessment provide a foundation for this specialty.

The program features individually designed plans of study for nurses seeking to become neonatal nurse practitioners. Advanced neonatal nursing theory and clinical courses focus on the development of a framework for developmentally supportive, family-centered, culturally appropriate, advanced nursing practice with infants, children and families. Approximately one third of the curriculum in each course is delivered in a traditional classroom setting, and two thirds is completed in a Web-based format. Several different modalities are used to enhance the student learning, including multimedia presentations, asynchronous discussion boards, and live chats.

Focused clinical experiences are arranged with preceptors and administrators in the student's local healthcare setting. Rural health and experiences with disadvantaged and multicultural populations are encouraged.

*Program Requirement:* The D.N.P. requires 84 credit hours of course work. The American Nurses Credentialing Center (ANCC) has recommended a minimum of 1,000 post-baccalaureate practicum hours for all students completing a D.N.P. The College of Nursing and Health Innovation's program allows post-baccalaureate entry students to complete 630 hours of the 1,000 required clinical practice hours and then receive their M.S. while continuing in the D.N.P. program. This will allow students to then meet the requirements for certification and licensure in their specialty. The additional 540 hours are completed after certification and licensure while practicing as an advance practice nurse and completing the final D.N.P.
Post-master's entry applicants should have an idea for a project developed before entry and will complete 540 hours of clinical practice residency hours and the D.N.P. courses. The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to carry out the project in a practice setting (work settings may be included, but specific objectives will be developed individually with each student, that may be different from the student’s job). Each project will be developed individually with each student.

**Admission Requirements:** Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor's or graduate degree attained.
2. Completion of a bachelor’s degree in nursing accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant's academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.

**Contact:**
College of Nursing & Health Innovation
http://nursing.asu.edu
gponursing@asu.edu
NHI 158A
602/496-0857

**Program Description:** The graduate certificate in nurse education in academic and practice settings is an innovative program that is offered mostly online for nurses who have at least a bachelor's degree and who are interested in teaching in academic or practice settings.
Program Requirement: The 15-credit-hour graduate certificate program includes courses covering curriculum development, teaching in the classroom, teaching online and producing and evaluating educational programs in academic and practice settings. A three-credit-hour teaching practicum (comprised of 135 clock hours) is also an integral part of the program. Most of the courses are offered online.

Admission Requirements: Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor's or graduate degree attained.
2. Minimum of a bachelor's degree in nursing (or a related field) accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Three professional recommendations from individuals knowledgeable about the applicant’s academic and nursing leadership potential.
5. Statement of profession goals.
6. An interview with program faculty.
7. Eligibility for admission to the Graduate College.
8. Completion of the English language proficiency test per graduate college requirements and of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.

Applications to the program are due each year by March 1 for fall semester enrollment.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/
gponursing@asu.edu
NHI 158B
6024960703

Nursing Education (MS) NUNURSEDMS
College of Nursing & Health Innovation

Official Degree Awarded: MS Nursing (Nursing Education)

Program Description: The faculty in the College of Nursing and Health Innovation offer a predominantly online graduate program leading to the M.S. in nursing with a concentration in nursing education. The purpose of the M.S. program is designed to foster scholarship, creativity and innovation that prepares the nurse educator for leadership roles in academic and practice settings. The M.S. program offers advanced-level courses that can be used to provide a seamless transition to the Ph.D. or the D.N.P. program depending on career goals.
Program Requirement: This degree program requires a minimum total of 38 credit hours culminating in a capstone project related to learner-centered education. The core of the program consists of 15 hours of courses and a practicum which focuses on the science and art of nursing education, theory and practice courses related to one of eight clinical specialties. Students who choose the nurse educator concentration pathway must have a bachelor’s degree (or higher). At the completion of the program, graduates with two years teaching experience may be eligible to take the National League for Nursing certification examination.

Admission Requirements: Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor’s or graduate degree attained.
2. Undergraduate-prepared nurse or health related professional (e.g., social worker, physician, psychologist, dentist) with a bachelor’s, master's, or medical degree from a nationally recognized and regionally accredited university or equivalent.
3. Professional license in the state where the individual capstone project will be conducted, if required (e.g., R.N., N.P., M.S.W., P.A. or M.D.).
4. Resume or curriculum vitae.
5. Application questionnaire and self-assessment form.
6. Three professional recommendations from individuals knowledgeable about the applicant’s academic potential.
8. Proof of a current, valid passport.
9. Eligibility for admission to the Graduate College.
10. Completion of the English language proficiency test per graduate college requirements, if considered an international student.

Applications to the program are due each year by March 1 for fall semester enrollment.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/
gponursing@asu.edu
NHI 158B
6024960703

Nursing and Healthcare Innovation (PHD) NUNHIPHD
College of Nursing & Health Innovation

Official Degree Awarded: PHD Nursing and Healthcare Innovation

Program Description: The College of Nursing and Health Innovation continues to offer this program in both traditional on-site delivery format and innovative real-
time collaborative virtual learning technology, designed to maintain our commitment to a highly mentored, interactive learning experience. Several different modalities are also used to enhance the student's learning, including multimedia presentations, asynchronous discussion boards and live chats.

Program Requirement: The Ph.D. curriculum consists of a minimum of 84 credit hours. Up to 30 hours from a previously awarded master's degree can count toward this requirement. Twelve credit hours are required in a substantive area of concentration and may be added to any semester, based on availability and student interest.

Students are required to enroll for a minimum of 9 credit hours per semester for years one and two of their program of study. Twenty-four hours are required with a research focus, including 12 hours of dissertation credit. The program of study can be as broad or as narrow as the student and the supervisory program committee deem necessary for the student's career goals. The program may incorporate courses from other disciplines to further refine substantive areas of study. ASU offers a flexible menu of graduate courses in the various substantive areas of concentration.

Both written and comprehensive oral examinations are required. Students must also complete and successfully defend a written dissertation.

Admission Requirements: All applicants must submit the Graduate College online application. Admittance to the Ph.D. program requires a master's or bachelor's degree in nursing or a related field from an accredited program. A cumulative undergraduate GPA of at least 3.00 and a cumulative graduate GPA of at least 3.50. Students are admitted once a year to start the fall semester.

There is an inferential statistics prerequisite for post master's applicants.

GRE scores are encouraged but not required.

International Applicants: Individuals from a country whose native language is not English must meet previous qualifications and provide evidence of English proficiency, as indicated by acceptable scores of the Test of English as a Foreign Language (TOEFL). Acceptable TOEFL scores are 550, paper-based, 213 computer-based or 80, Internet-based.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu
phdnursing@asu.edu
CONHI
602/496-0930
Nutrition (MS) ECHNUTMS
College of Nursing & Health Innovation

Official Degree Awarded: MS Nutrition

Program Description: The M.S. in nutrition at Arizona State University’s Polytechnic campus is based on the scientific foundations of nutrition, but also prepares students with strong writing skills, computer literacy, interpretive expertise, problem-solving skills and research experiences. The degree requires the completion of a minimum of 30 credit hours and a thesis. Graduate students who are currently in good academic standing in the program may elect to apply to the ASU Dietetic Internship once they have completed at least six graduate hours from the ASU Department of Nutrition.

The primary objective of the graduate program in nutrition is to provide advanced training in nutrition research. Graduate students are expected to develop competencies in research methods and in advanced practice knowledge relevant to their area of study. The skills and knowledge acquired during the course of training should enable each student to develop professional competencies that can be applied to significant problems and issues within the field of nutrition/dietetics.

Program Requirement: The plan of study must contain a minimum of 30 credit hours of approved graduate-level work, and a thesis is required. The following courses are required:

1. Research methods, NTR 500 and NTR 501 (6)
2. Statistics; three-six credit hours from EXW 501, EDP 552/554, STP 530/531/532/533, PSY 529/530 or other approved course
3. Seminars* in foods and nutrition (6 credit hours from NTR 521/523/525/527/529/598)
4. Thesis (6)

*Seminars reflect the changing nature of research and cover different subject areas each semester. Recent seminars include global nutrition, vegetarianism, public health, immunology, pediatric nutrition, energy balance and weight management and sports nutrition.

Admission Requirements: Applicants must submit a Graduate College online application.

The following are prerequisites for admission into the program:

- General Nutrition for majors (such as NTR 241 at ASU)
- Microbiology with Lab (such as MIC 205 and 206 at ASU)
- Anatomy and Physiology I and II with Labs (such as BIO 201 and 202 at ASU)
- General Chemistry I and II with Labs (such as CHM 113 and 116 at ASU)
- Organic Chemistry with Lab (one semester only is required, such as CHM 231 and 235 lab at ASU)
Biochemistry (one semester only is required, such as BCH 361 and 367 lab at ASU)
Statistics (any statistics course)

Contact:
College of Nursing & Health Innovation
http://www.poly.asu.edu/ecollege/nutrition
nutrition@asu.edu
HSC 1386
4807271728

Nutrition (Dietetics) MS ECNTRDMS
College of Nursing and Health Innovation

Official Degree Awarded: MS Nutrition (Dietetics)

Program Description: The dietetics concentration under the M.S. in nutrition is a non-thesis option geared specifically for registered dietitians (R.D.s) seeking to continue their education, advance their skills as practitioners and achieve their career goals. To facilitate the matriculation of working professionals, courses will be offered one evening a week or offered online, and students will have the option of enrolling part- or full-time.

The dietetics concentration under the M.S. in nutrition requires previous work experience as an R.D. to be admitted; however, prospective students will not have to be employed at the time they apply to the program, nor will students have to be employed to maintain in good standing with the program.

Program Requirement: All students will complete a minimum of 30 credit hours:

- Required courses: 9 credit hours
- Required concentration courses: 6 credit hours
- Elective courses: 9 credit hours
- Applied project: 6 credit hours

Admission Requirements: Prospective students must apply online to the Graduate College and applicants must submit the following materials:

1. The completed Supplementary Information Form (Appendix A of the Nutrition Graduate Handbook).
2. Three letters of recommendation, including at least one from an individual who has employed or supervised the applicant's work, with the Recommendation Form Cover Sheet (again found in Appendix A) included with each letter.
3. A resume that summarizes the academic, volunteer and employment experiences of the applicant and credentialing as a registered dietitian.
4. If the applicant wishes to apply for a graduate teaching or research assistantship, the form found in Appendix B of the Nutrition Graduate Handbook must be completed at the time of application.

Credentials submitted by applicants to the M.S. in nutrition program are evaluated by the ASU Graduate College and by the curriculum committee of the nutrition program. The dietetics concentration utilizes a rolling admissions process by conducting on-going application reviews. Based upon the recommendation of the curriculum committee, applicants will be recommended for admission to the ASU Graduate College by the head of the nutrition program. Applications for the M.S. in nutrition concentration in dietetics will be considered for admission in the upcoming fall or spring semester. Notification of admission to the department’s graduate program will be given in late March/early April or late October/early November.

Applicants for the dietetics concentration will receive regular admission status based on the following criteria and when enrollment limits have not been met:

1. Current registered dietitian (R.D.) credential by the Commission on Dietetic Registration.
2. A minimum of 2,080 hours (equivalent to one year full-time) of work experience in dietetics or a closely related discipline since becoming an R.D.
3. Adequate academic preparation.
4. Satisfactory and competitive GPA.
5. Personal interview (in lieu of GRE scores).
6. Favorable letters of recommendation.
7. Completed Supplementary Information Form (Appendix A).

The following courses are prerequisites:

- One general nutrition course for majors (e.g., NTR 241 at ASU)
- One microbiology course with laboratory component (e.g., MIC 205 and 206 at ASU)
- Two anatomy and physiology courses with laboratory component (e.g., BIO 201 and 202 at ASU)
- Two general chemistry courses with laboratory components (e.g., CHM 113 and 116 at ASU)
- One organic chemistry course with laboratory component (e.g., CHM 231 and 235 at ASU)
- One biochemistry course with laboratory component (e.g., BCH 361 and 367 at ASU)
- One statistics course

Each applicant’s background/undergrad transcript will be assessed on a case by case basis and, if admitted, deficiency courses will be specified in the admissions letter as needed.
Pediatric Nurse Practitioner - DNP NUANPPDNP
College of Nursing & Health Innovation

Official Degree Awarded: DNP Advanced Nursing Practice (Pediatric Nurse Practitioner)

Program Description: The D.N.P. program may be completed for certification to be a pediatric nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced pathophysiology, and advanced health assessment and advanced practice nursing role provide a foundation for this specialty. Nursing of children theory and clinical courses focus on the development of a framework for family-centered, culturally appropriate, advanced nursing practice with children and families. Individual courses focus on well child maintenance as well as diagnosis, clinical decision making and intervention strategies for children with common health problems.

Program Requirement: This program requires a minimum of 84 credit hours. The Association of Nursing for Critical Care (ANCC) has recommended a minimum of 1,000 post-baccalaureate hours for all students completing a D.N.P. The College of Nursing and Health Innovation’s program allows post-baccalaureate entry students to complete 630 hours of supervised clinical in their chosen specialty before receiving their M.S. This will allow students to then meet the requirements for certification and licensure in their specialty. The additional 450 hours are completed after certification and licensure while practicing as an advance practice nurse and completing the final D.N.P. courses. The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to carry out the project in a practice setting (work settings may be included, but specific objectives will be developed, individually with each student, that may differ from the student’s job.) Each project will be developed individually with each student. Post-master’s entry applicants should have ideas for a project already developed before entry.

Admission Requirements: Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:
1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor's or graduate degree attained.
2. Completion of a bachelor's degree in nursing accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant's academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu
gponursing@asu.edu
NHI 158A
602/496-0857

Physical Activity, Nutrition, and Wellness (PhD) ECNUTRIPHD
College of Nursing & Health Innovation

Official Degree Awarded: PHD Physical Activity, Nutrition and Wellness

Program Description: The faculty mentors of the Physical Activity, Nutrition, and Wellness Program offers an interdisciplinary graduate program leading to the doctoral degree in physical activity, nutrition and wellness. The doctoral degree in physical activity, nutrition and wellness is an individualized interdisciplinary program that integrates graduate courses from several academic units to provide a sound foundation for research, leading to a dissertation.

One of the unique features of this interdisciplinary program is that a student may tailor a course of study to fit individual needs and goals within two main focus areas: physical activity health promotion and nutrition. The program focuses on issues that contribute to health through the reduction of disease risk, the promotion of quality of life and the enhancement of well-being. While many healthy lifestyles are studied, the emphasis is on physically active living and sound nutrition.

The program prepares research scholars, teachers and professionals who study physical activity, nutrition, healthy lifestyles and health promotion. The program will prepare graduates for careers in higher education, governmental agencies and health-related positions in private industry. The program requires residency and
three years of full-time study after the master’s degree. Students will be actively involved in research at all stages of their doctoral study through their participation in research internships, independent research experiences, seminars and colloquia and dissertation research.

Program Requirement: This program requires a total of 97 credit hours of coursework, written and oral progression and comprehensive examinations and a dissertation. The plan of study in the program consists of a minimum of 67 credit hours over the master’s degree distributed across five areas of study:

- Research core (26)
- Cognate area courses (12)
- Professional development (5)
- Concentration area courses (12)
- Dissertation (12)

Cognate courses have two tracks with three courses (nine hours) per track: health promotion and nutrition. Students may take courses in both tracks (i.e., six hours per track) or all courses in a single track (nine hours) plus at least one class (three hours) in the opposite track.

The concentration courses allow students to focus on an interest area (e.g., aging, stress reduction, diabetes, strength, worksite health promotion, public health, bioenergetics, weight management, etc.) within the program. The content area is selected by the student in consultation with his or her academic mentor and supervisory committee. It is expected that nine of the 12 credit hours in the concentration will be in a focused content area and that student's research projects will reflect their concentration interests. At least three, but not more than nine credit hours in the concentration should be taken from a program or department outside the student’s home program.

Admission Requirements: Applicants must submit the Graduate College online application. In addition to meeting Graduate College requirements, students must submit the following to the physical activity, nutrition, and wellness executive committee chair:

1. A letter of intent (designating the name of a potential mentor from a list of approved faculty mentors).
2. GRE scores (verbal, quantitative and writing).
3. A six- to 10-page writing sample.
4. A professional resume.
5. Three letters of recommendation.

It is expected that students admitted to the program will have a strong disciplinary foundation in either physical activity or nutrition. Individuals lacking background in these areas will be required to make up deficiencies before admission. Students must have completed the following prerequisite undergraduate and graduate
courses prior to admission: lower-division human nutrition, upper-division nutrition, lower-division anatomy, lower-division physiology, upper-division exercise physiology, graduate-level research methods and graduate level statistics. Other requirements may be necessary depending on the area of study and will be determined by the mentor and executive committee.

Additionally, all students must submit an application for a teaching or research graduate assistantship. Applicants whose native language is not English must submit a Test of English as a Foreign Language (TOEFL) score. Applicants must have successfully received a master’s degree prior to admission to the doctoral program and it is preferable that they have completed a data-based research thesis. Admission decisions are based on the compatibility of the applicant's research interests and career goals with the purpose of the degree program, previous academic training, GPA, GRE scores, recommendations, available funding and a match of research interests with available mentors.

It is expected that doctoral students will spend three years in full-time residence. The intent is to involve and embed students in ongoing research as well as class study. Thus, all doctoral students are to be full-time students and hold part-time appointments (20 hours per week) as a teaching assistant or research assistant. As such, to be accepted into the program, funding must be available and students must have the expertise, experience and willingness to teach courses in the exercise and wellness or nutrition undergraduate curriculum or be a research assistant as funding allows.

Applications are accepted for admission to the fall semester only, with first priority given to completed applications received by Jan. 15.

Contact:
College of Nursing & Health Innovation
http://nursing.asu.edu/programs/graduate/iphd/index.html
wellnessprograms@asu.edu
EAW 109
480/727-1945

**Women's Health Nurse Practitioner - DNP NUANPWHDNP**

College of Nursing & Health Innovation

**Official Degree Awarded:** DNP Adv Nursing Practice (Women's Health NP)

**Program Description:** Designed for nurses seeking to become an advanced practice nurse as a women's health nurse practitioner. Graduate courses in application of theory to advanced practice, application of evidence to advanced practice, advanced patho-physiology, advanced health assessment and advanced practice nursing role provide a foundation for this specialty.

Women's healthcare theory and clinical courses include theories, principles, and
clinical skills in the care of women and their families. Courses focus on critical thinking, diagnosis, problem-solving, and nursing management of women throughout the maternity cycle and with common gynecological problems. Client education, communication and collaboration are emphasized.

**Program Requirement:** The D.N.P. requires 84 credit hours of course work. The American Nurses Credentialing Center (ANCC) has recommended a minimum of 1,000 post-baccalaureate practicum hours for all students completing a D.N.P. The College of Nursing and Health Innovation’s program allows post-baccalaureate entry students to complete 630 hours of the 1,000 required clinical practice hours and then receive their Master of Science degree while continuing in the D.N.P. program. This will allow students to then meet the requirements for certification and licensure in their specialty. The additional 540 hours are completed after certification and licensure while practicing as an advance practice nurse and completing the final D.N.P. courses.

Post-master's entry applicants should have an idea for a project developed before entry and will complete 540 hours of clinical practice residency hours and the D.N.P. courses. The culminating document needed for completion of the D.N.P. is an evidence-based mentoring applied project. Each student will have a primary mentor and at least one committee member working with them on the project. Clinical practice residency hours will be used to carry out the project in a practice setting (work settings may be included, but specific objectives will be developed individually with each student, that may be different from the student’s job). Each project will be developed individually with each student.

**Admission Requirements:** Admission to graduate status in the College of Nursing and Health Innovation is based upon meeting the following requirements:

1. An undergraduate junior or senior GPA equal to 3.00, or a cumulative GPA equal to 3.00 (4.00=A) or higher for any bachelor's or graduate degree attained.
2. Completion of a bachelor’s degree in nursing accredited by a nationally recognized and regionally accredited agency.
3. A current unencumbered license in the state where clinical practice will be concluded and/or an unencumbered Arizona license to practice as a registered nurse to enroll in nursing practicum courses.
4. Satisfactory completion of the analytical writing section of the GRE.
5. Three professional recommendations from individuals knowledgeable about the applicant’s academic and nursing leadership potential and one self-evaluation.
6. An interview with a representative of the specialty area.
7. Eligibility for admission to the Graduate College.
8. Completion of all requirements for the Commission on Foreign Graduate Nursing Schools (CFGNS), if considered an international student.
Public Programs, College of

Assessment of Integrative Health Modalities (Grad Certificate) PPSWGGRCH
Official Degree Awarded: CERT Assessment of Integrative Health Modalities (certificate)

Program Description: The School of Social Work graduate certificate in assessment of integrative health modalities will focus on integrative health, the current term used by practitioners in the field who feel strongly that treating the "whole person—body, mind and spirit" is the route to the highest quality of health.

The purpose of the certificate is to enhance students' knowledge of integrative health practices. It will provide students with extensive knowledge of integrative health practices through directed readings in evidence-based journal articles, expert lectures from community health professionals and ASU faculty drawn from across disciplines, field observation, an individual research paper and a mindfulness in-class practice and class interaction that can enhance the quality and effectiveness of treating clients holistically.

Program Requirement: The certificate will require the completion of 15 credit hours, distributed among three core courses and two interdisciplinary electives. Each ASU campus, particularly the Polytechnic campus, offers a variety of courses that can meet the elective requirement. The core courses include: quality of life, ancient healing traditions and treating the whole person.

Admission Requirements: Students interested in applying to this program must submit the online Graduate College application.

This certificate is open to professionals in social work, nursing or related health and human service professions from the community, as well as students currently admitted to a health and human services degree program at the master's or doctoral level. A minimum of a bachelor's degree in health or human services or related field is required for entry into the certificate program.

Contact:
School of Social Work
http://ssw.asu.edu/certificates/index.html
social.work@asu.edu
Official Degree Awarded: PHD Community Resources and Development

Program Description: The School of Community Resources and Development and the Department of Recreation and Tourism Management offer a graduate program leading to the Ph.D. in community resources and development.

The Ph.D. in community resources and development is a theoretically grounded, research-intensive degree program designed to prepare graduates for research-oriented careers in higher education, governmental agencies, nonprofit organizations and private sector businesses. The program is based on the concept of building sustainable and healthy communities as the unifying principle in the established focus areas of: parks and recreation management, tourism development and management, nonprofit leadership and management, and community studies.

The theoretical and methodological approaches embedded in this program serve to integrate scholarship in these areas in order to gain a more meaningful understanding of, and impact on, community life and dynamics. The program is interdisciplinary in nature. The core faculty engaged in this program is housed in the School of Community Resources and Development (at the Downtown Phoenix campus) and the Department of Recreation and Tourism Management (at the West campus). In addition, the Ph.D. builds on current collaborations with faculty with related research interests from many ASU departments, schools and centers.

Program Requirement: The Ph.D. program consists of a minimum of 84 credit hours. Up to 30 hours from a previously awarded master’s can count toward the Ph.D. requirements. All students are advised initially by the Ph.D. graduate program director as a cohort. Students are required to take 18 credit hours of core course work, 15 hours of which are with the cohort, during the first year. Students are assigned an individual advisor/mentor at the end of the first year of study. A supervisory committee is also formed at the end of the first year which reflects the interests of the student and faculty.

Each student develops his or her program of study in consultation with the Ph.D. graduate program coordinator, advisor and supervisory committee. Students complete at least 12 credit hours of elective course work, including courses from contributing disciplines, selected in consultation with their advisor to foster the interdisciplinary nature of the degree program. Students can also complete at least 12 hours of CRD 792 Research and 12 hours of CRD 799 Dissertation. When the majority of course work has been completed and before dissertation research is started, students must complete a written examination followed by an oral examination. These examinations must be completed within five years of admission.
Admission Requirements: Applications are reviewed by the admissions committee and recommendations for admission are then made by the graduate program director to the dean of the Graduate College. Minimum Graduate College requirements must be met. Additionally, each applicant must provide a statement of academic and professional goals in sufficient detail to indicate compatibility with the educational objectives and capabilities of the Ph.D. program. GRE test scores, a current and professional resume, and three letters of recommendation are required. The letters may be a mix of academic and professional references, but each must address the applicant’s capacity to successfully complete the doctoral program. International applicants are also required to submit Test of English as a Foreign Language (TOEFL) scores and a financial guarantee statement.

Admissions recommendations are made only once a year, with admitted students beginning their studies in fall semester. To assure consideration for the ensuing fall semester, candidates should submit their application, graduate assistantship and tuition waiver by Feb. 1. Students applying to the program are expected to have a master’s degree from an accredited institution which included a master’s-level research methods and statistics class or classes. If deficiencies exist in community resource and development-related course work at the master’s level, appropriate classes are suggested.

Contact:
School of Community Resources and Development
http://crdphd.asu.edu
scrd@asu.edu
UCENT 550
602/496-0550

Criminology and Criminal Justice (MS) PPCRJMS
College of Public Programs

Official Degree Awarded: MS Criminology and Criminal Justice

Program Description: The M.S. in criminology and criminal justice is a research degree designed to provide students with a high level of theoretical and empirical knowledge about crime and criminal justice. The program also is designed to provide students with the advanced research skills needed for careers as criminal justice researchers and continued study in doctoral programs in criminology or criminal justice. The degree consists of 24 credit hours of course work and a six-hour thesis.

Program Requirement: A minimum of 30 credit hours of graduate study beyond the baccalaureate degree is required for the M.S. in criminology and criminal justice. This includes 24 credit hours of course work and six credit hours of thesis. There are five required courses. Each student will write a thesis that reflects original research and scholarship, makes a contribution to knowledge in the field and demonstrates his/her ability to design and carry out an independent research
project.

Core Courses

- CRJ 501 Seminar in Criminal Justice (3)
- CRJ 502 Seminar in Criminology (3)
- CRJ 503 Research methods for Criminal Justice (3)
- CRJ 504 Statistical Tools for Criminal Justice (3)
- CRJ 604 Advanced Statistical Analysis (3)

Electives

Choose three in consultation with the supervisory committee (9)

Thesis (6)

Admission Requirements: Students must submit an application for admission, an official transcript from every university or institution attended, GRE scores and the application fee to the Graduate College. The suggested application deadlines are April 1 for fall semester and Nov. 1 for spring semester.

In addition to the application material required by the Graduate College, applicants must submit:

1. Two letters of recommendations.
2. A personal statement that addresses the applicant’s prior education and professional experience, discusses the applicant’s career goals and explains how the degree will help the applicant achieve these goals.

The letters of recommendation and personal statement should be sent to:

M.S. in Criminology and Criminal Justice Program
College of Public Programs
Arizona State University
4701 W. Thunderbird Rd.
Mail Code 3250
Glendale, AZ 85306-4908

Contact:
School of Criminology and Criminal Justice
http://ccj.asu.edu/degree-programs/ms
sccj@asu.edu
FAB S 301
602/543-6225

Criminology and Criminal Justice (PhD) PPCRJPHD
College of Public Programs
Official Degree Awarded: PHD Criminology and Criminal Justice

Program Description: The School of Criminology and Criminal Justice at Arizona State University offers a program of course work and research leading to the Ph.D. in criminology and criminal justice. This program emphasizes criminal justice theory, research and policy. The program is designed to produce highly skilled criminology and criminal justice faculty and agency researchers and administrators.

The Ph.D. in criminology and criminal justice program is organized around five components:

1. A core of required courses in theory and research on crime and the criminal justice system.
2. A core of required courses on research methods and analytical techniques.
3. Elective courses in criminology, criminal justice and related fields.
4. A comprehensive examination.

Program Requirement: The Ph.D. in criminology and criminal justice requires a minimum of 84 credit hours of graduate course work beyond the bachelor’s degree, a dissertation and a written comprehensive exam. This includes a minimum of 72 credit hours of course work and 12 credit hours (and only 12) of dissertation. A maximum of 30 credit hours of course work from a previously awarded master’s degree or J.D. may, with the approval of the supervisory committee, be applied toward the doctoral program of study.

Each student is required to complete course work in two core areas. This includes six credit hours of course work in theory and research on crime and the criminal justice system and nine credit hours of course work on research methods and analytical techniques. Elective courses comprise the remainder of the course work required for the Ph.D. All students must demonstrate proficiency in research and methodological skills.

Core Courses

CRJ 601 Seminar on Criminological Theory (3)
CRJ 602 Seminar on Criminal Justice Policies and Practices (3)
CRJ 603 Advanced Research Design (3)
CRJ 604 Advanced Statistical Analysis (3)
CRJ 605 Special Problems in Quantitative Methods (3)

Electives

Choose nine in consultation with the supervisory committee (27)

Dissertation (12)

Credit hours for course work from master’s degree or J.D. (30)
Admission Requirements: Students must submit an application for admission, an official transcript from every university or institution attended, GRE scores and the application fee to the Graduate College. The application deadline is Feb. 1 for fall semester.

In addition to the basic requirements established by the Graduate College, the School of Criminology and Criminal Justice requires the following:

1. A master’s degree or a J.D. earned from an accredited institution. The master’s degree may be a degree in criminal justice, criminology or another field (e.g., sociology, political science, history, social work, public administration, psychology or philosophy).

2. Outstanding students with a bachelor’s degree may be admitted directly into the Ph.D. program. These students’ work will be reviewed after completion of 30 credit hours of graduate course work. Students whose work passes the review are awarded the master’s in passing.

3. Two letters of reference from faculty members or others qualified to evaluate the applicant’s academic potential for doctoral study.

4. A resume.

5. A personal statement, not exceeding five pages, that describes the applicant’s prior education, relevant professional experience, and career goals, and that explains how the Ph.D. in criminology and criminal justice will help the applicant attain his/her career goals. The statement should explicitly explain how the student’s plans are consistent with the role and mission of the School of Criminology and Criminal Justice at ASU.

6. Applicants who wish to apply for a graduate assistantship must also submit the school’s application for a graduate assistantship.

7. International students seeking admission to the program must meet ASU Graduate Faculty requirements governing the admission of international students, which can be found at http://graduate.asu.edu/admissions/international.html.

The letters of recommendation and personal statement should be sent to:

Ph.D. in Criminology and Criminal Justice Program
College of Public Programs
Arizona State University
4701 W. Thunderbird Rd.
Mail Code 3250
Glendale, AZ 85306-4908

Contact:
School of Criminology and Criminal Justice
http://ccj.asu.edu/degree-programs/phd
sccj@asu.edu
FAB S 301
602/543-6225
Downtown Phoenix - Social Work - Adv Standing-Plan, Admin & Comm Practice (MSW)
PPCPDTMSW
College of Public Programs

Official Degree Awarded: MSW Social Work (Planning, Administration and Community Practice)

Program Description: The professional program leading to the M.S.W. prepares social workers for advanced direct practice or planning, administration and community practice. The program is designed to prepare social workers to be capable of responding effectively to the needs of special populations in the Southwest. The M.S.W. degree program is accredited by the Council on Social Work Education, and is located at the Downtown Phoenix campus and in Tucson.

Program Requirement: This degree program requires 36 credit hours of course work. Students must start the program in summer (beginning with the first summer session) and complete a total of three credit hours in each summer session for a total of six hours. The six credit hours of summer courses are not offered in Tucson. Students also complete one internship. The planning, administration and community practice courses are generally not offered in Tucson. A written, comprehensive examination is also required.

Summer Session Course Work

D SWG 598 ST: Advanced Standing Bridge Seminar (3)
D SWG 598 ST: Advanced Standing Bridge Seminar (3)

Planning, Administration, and Community Practice (PAC)

D SWG 623 Agency and Community-Based Research in Social Work (3)
D SWG 632 Social Policy and Services II (3)
D SWG 643 Advanced Practicum: Planning, Social Work Administration, and Community Practice I (3)
D SWG 644 Advanced Practicum: Planning, Social Work Administration, and Community Practice II (3)
D SWG 681 Social Work Administration (3)
D SWG 682 Community Participation Strategies (3)
D SWG 685 P: Program Planning in Social Services (3)
Electives (9)

Electives may be selected from offerings at the School of Social Work or courses offered through other departments with the approval of the M.S.W. program coordinator.

Admission Requirements: Applicants must follow the procedures for admission to the Graduate College. Advanced Standing Program applicants must have a B.S.W. degree from a Council on Social Work Education.
Official Degree Awarded: MSW Social Work (Advanced Direct Practice)

Program Description: The professional program leading to the M.S.W. program prepares social workers for advanced direct practice or planning, administration and community practice. The program is designed to prepare social workers who are capable of responding effectively to the needs of special populations in the Southwest. This program is located at the Downtown Phoenix campus and in Tucson. It is accredited by the Council on Social Work Education.

Program Requirement: This degree program requires 36 credit hours of course work. Students must start the program in summer (beginning with the first summer session) and complete a total of three credit hours in each summer session for a total of six hours. The six credit hours of summer courses are not offered in Tucson. Students also complete one internship and select one of three specializations: children, youth, and families health; behavioral health; or public child welfare. Not all of these specializations may be offered in Tucson. Students must also complete a written comprehensive examination.

Summer Session Course Work

D SWG 598 ST: Advanced Standing Bridge Seminar (3)
D SWG 598 ST: Advanced Standing Bridge Seminar (3)

The following specialization courses are required:

Children, Youth and Families

D SWG 606 Assessment of Mental Disorders (3)
D SWG 608 Ecological Approach to Practice with Children, Youth and Families (3)
D SWG 619 Practice-Oriented Research (3)
D SWG 617 Advanced Social Work Practice with Children and Adolescents (3)
D SWG 621 Integrative Seminar
D SWG 641 Advanced Practicum: Direct Practice I (3)
D SWG 642 Advanced Practicum: Direct Practice II (3)
Electives: Nine hours. Two electives must be from an approved list of electives.
**Health, Behavioral Health**

D SWG 603 Practice in Health/Behavioral Health Settings (3)
D SWG 606 Assessment of Mental Disorders (3)
D SWG 619 Practice-Oriented Research (3)
D SWG 621 Integrative Seminar (3)
D SWG 641 Advanced Practicum: Direct Practice I (3)
D SWG 642 Advanced Practicum: Direct Practice II (3)

Choose one of the following courses:

D SWG 604 Advanced Social Work Practice in Health (3)
D SWG 613 Advanced Social Work Practice in Behavioral Health (3)

Electives: Nine hours. Two electives must be from an approved list of electives

**Public Child Welfare**

D SWG 606 Assessment of Mental Disorders (3)
D SWG 608 Ecological Approach to Practice with Children, Youth and Families (3)
D SWG 609 Advanced Social Work Practice with Child Welfare Families (3)
D SWG 619 Practice-Oriented Research (3)
D SWG 621 Integrative Seminar (3)
D SWG 633 Child Welfare Services (3)
D SWG 641 Advanced Practicum: Direct Practice I (3)
D SWG 642 Advanced Practicum: Direct Practice II (3)

Electives: Six hours, which must be from an approved list of electives

**Admission Requirements:** Applicants must follow the procedures for admission to the Graduate College. Advanced standing program applicants must have a B.S.W. from a Council on Social Work. Applications to the advanced standing program are accepted from Nov. 1 to Jan. 2 preceding the summer session to which the applicant is seeking admission. Applicants admitted to the advanced standing program begin classes in the summer.

All advanced standing program applicants must submit the following to the School of Social Work:

1. A School of Social Work M.S.W. application form.
2. An M.S.W. advanced standing application.
3. A statement of educational and career goals.
4. A professional resume that includes volunteer and paid work experience.
5. A written case example covering areas specified in the advanced standing application.
6. Three letters of reference. A combination of academic and professional references is desirable. References from friends, family members, or personal therapists are not accepted. At least one of the three required references
must be from the applicant’s B.S.W. field instructor, or if employed in a social work-related job for two or more years, a recommendation from the applicant’s supervisor. Applicants must have received their B.S.W. no more than five years before the date of admission.

In addition, all applicants must submit the following to the Graduate College:

1. A completed Graduate College application form.
2. The application fee; and
3. An official transcript of all academic work completed or in progress.

Contact:
School of Social Work
http://ssw.asu.edu/
social.work@asu.edu
UCENT 800
602/496-0800

Downtown Phoenix - Social Work - Advanced Generalist (MSW) PPASWMSW
College of Public Programs

Official Degree Awarded: MSW Social Work - Advanced Standing

Program Description: This social work program is designed to meet the needs of traditional and nontraditional students with flexible class scheduling, a variety of internships and close mentoring relationships with faculty. This student-centered program offers a strong practice oriented approach to social work. Program graduates are able to find meaningful employment in a variety of settings. The program is fully accredited by the Council on Social Work Education.

Program Requirement: An applied project is required. There are two program tracks (full-time and part-time) available for the advanced-standing program:

Advanced standing/full-time (AS/FT): a one-calendar-year, three-semester program (37 credit hours/500 clock hours of fieldwork) for individuals who have received a B.S.W. within six years prior to the year they wish to enter the program. It begins with a summer “bridge” class and a summer research class. (Note: no exceptions will be granted).

Advanced standing/part-time (AS/PT): a five-semester program (37 credit hours/500 clock hours of fieldwork) for individuals who have received a B.S.W. within six years prior to the year they wish to enter the program. It begins with a summer “bridge” class and a summer research class. (Note: no exceptions will be granted).

Admission Requirements: Eligibility requires the applicant to have received a B.S.W. from a CSWE-accredited program within six years of the semester the applicant is planning to begin studies (e.g., for 2008, the B.S.W. date would be May or August,
2002) with a cumulative GPA of 3.00 for all social work courses. Social work-related experience (paid or volunteer) is highly desirable. Some applicants to the advanced standing program who are not offered admission to that program may be offered the option of admission into their choice of either of the two standard programs.

Application materials are generally available online after Sept. 1 of the year preceding your desired admission date. Application to the social work graduate program is a two-part parallel process requiring all applicants to submit:

1. A completed online application to the Graduate College and pay the application fee.
2. A completed online social work application. The social work application will require an applicant to designate the specific program for which they are seeking admission: AS/FT, AS/PT, Standard/2 or Standard/3.
3. A personal statement as part of the online social work application.
4. At least three letters of reference.

Contact:
School of Social Work
http://ssw.asu.edu
social_work@asu.edu
FAB S 149
602/543-4679

Downtown Phoenix - Social Work (PhD) PPSW2PHD
College of Public Programs

Official Degree Awarded: PHD Social Work

Program Description: The purpose of our doctoral program is to “prepare future social work scholars.” While there are many possible definitions of scholarship, the Arizona State University School of Social Work adheres to a broad definition.

A scholar in social work engages in research, teaching and service. Our program introduces students to the complex range of roles and responsibilities of faculty and other social work roles of leadership. Critical thinking and creativity in research, teaching and service are at the core of our program.

Given the cultural and economic diversity of the Southwest, our program also strives to elaborate the human potential embedded in our region’s distinct experiences and perspectives. The university offers opportunities for scholarship integrating diverse cultural experiences such as those offered through specialized programs, including American Indian studies and Chicana and Chicano studies, African and African American studies and Asian Pacific American studies. We hope that our graduates will play key roles in integrating diversity in their social welfare activities with local, state and regional groups.
The program emphasizes enhancement of scholarship through:

1. Applied social work research in diverse community settings and populations of the Southwest.
2. Teaching, from syllabus development to classroom teaching across the professional continuum.
3. Participation in collegial decision making.
4. Participation in field education and community services.

Students are expected to participate fully in research teaching, and field liaison activities during their course of studies.

Program Requirement: Our doctoral degree requires that a student take a minimum of 36 course credit hours beyond the M.S.W. and 84 beyond the bachelor’s degree. Students may need to take additional course work to achieve the competency requirements set by the program or set by their graduate supervisory committees. Students must also take a minimum of 24 credit hours of dissertation related research (12 hours of SWG 792 and 12 hours of SWG 799).

Residency

Within the first year of matriculation, all students must complete the School of Social Work residency requirement (a minimum of nine credit hours in each semester of consecutive fall/spring or spring/fall semesters excluding summers).

Foreign Language Requirement

None.

Qualifying Examination

Students are given a qualifying examination in the semester following the completion of the first 18 hours of approved Ph.D. course work. Students who fail the examination may retake it the following semester. Students failing the qualifying examination twice will be dropped from the program.

Comprehensive Examination

Upon completion of course work and the qualifying examination, but before beginning dissertation research, students are given a written examination covering research, theory and methods in their substantive areas. If students should fail one or more components of the examination, a reexamination may be administered no sooner than three months and no later than one year from the date of the original examination. Approval of the reexamination must be obtained from the supervisory committee and dean of graduate studies.
Research and Dissertation Requirements

Each candidate must register for a minimum of 12 hours of research credit and for 12 hours of dissertation credit.

Final Examination

The final oral examination in defense of the dissertation is scheduled and conducted by the student's dissertation committee. A candidate must pass the final examination within five years after completing the comprehensive examination.

The following courses are required:

1. Twelve hours of required 700-level social work courses approved by the doctoral program committee.
2. Twelve hours of research methods and statistics courses selected from an approved list provided by the doctoral program committee.
3. Three hours of theory course in a social science discipline.
4. Nine hours of directed electives in an identified and chair-approved substantive area of which no more than three of these hours may be used in readings and conference or independent study courses.

Once the minimum 36 credit hours are completed, students are also required to register for 24 hours of dissertation research credit, SWG 792 before proposal defense and SWG 799 after. Students must be registered for at least one credit hour during the semester (including summer) when they do their dissertation proposal defense. At least one of the dissertation hours must be taken in the semester the student expects to defend his or her dissertation.

Admission Requirements: Admission to the Ph.D. program in the School of Social Work is based on the following criteria:

1. An M.S.W. from an accredited school of social work preferably with two or more years of post-M.S.W. employment in human services. Though an M.S.W. is preferred, exceptions may be made for students with a B.S.W. from an accredited school of social work and a master's degree in a related field and for students from countries without accreditation.
2. Undergraduate and graduate GPA.
3. Scores of the GRE, with emphasis on verbal and analytic scores.
4. Quality and extensiveness of social work experience.
5. Experience with diverse populations.
6. Experience in social work teaching or research and other scholarly activities.
7. Research potential and creativity as demonstrated in requested essays and references.
8. Goodness-of-fit with program goals.
9. Good professional standing.
Admission to the Ph.D. program requires completion of all admission requirement and procedures set forth by the Graduate College. Applications are accepted up to Feb. 1 preceding the fall semester to which the applicant is seeking admission.

All Ph.D. program applicants must submit the following to the School of Social Work:

1. An application to the Ph.D. program in social work.
3. Examples of written work (students may submit samples of their professional and/or academic writing).
4. Three letters of recommendation on the forms provided by the School of Social Work.

In addition, all applicants must submit the following to the Graduate College:

1. A completed online Graduate College application.
2. The application fee.
3. An official transcript of all academic work completed or in progress.
4. Test of English as a Foreign Language (TOEFL) or Speaking Proficiency English Assessment Kit (SPEAK) results for international students whose native language is not English.

Contact:
School of Social Work
http://ssw.asu.edu/
social.work@asu.edu
UCENT 800
602/496-0800

Latino Cultural Competency in Social Work (Grad Certificate) PPSWGGRCCL

Official Degree Awarded: CERT Latino Cultural Competency in Social Work (certificate)

Program Description: In response to the need, ASU through the College of Public Programs, School of Social Work, offers a graduate certificate in Latino cultural competency. The School of Social Work offers Latino-oriented courses with an emphasis on Spanish language development for professional social workers.

The goal of the program is to enhance a social worker professional’s capacity for engaging in culturally grounded practice with Latino clients and their families.

The program is intended for the professional who wants to:

1. Learn the social/cultural context and theoretical principles of social work practice with Latinos.
2. Learn the critical cross-cultural factors that influence a worker’s competency in forming professional helping relationships with Latinos.
3. Learn the social service delivery issues involved in providing services for bilingual and limited- or non-English-speaking Latino populations.
4. Expand their employment potential by adding an expertise in professional services with Latinos.

*Program Requirement:* For an M.S.W. graduate student 15 credit hours of coursework is required for the Latino cultural competency certificate.

**Requirements:**

1. Field practice, six credit hours of field practicum.
2. Completion of 480 hours of field practicum with Latino clients/communities (60 percent of case load is to be Spanish-speaking).
3. Social work course work, three credit hours: diversity and oppression in a social work context.
4. Latino-oriented course work, six credit hours of Latino oriented course work. At least three hours are required to be taken from within the School of Social Work.

For a community professional social worker and community worker, the Latino cultural competency graduate certificate requires 15 credit hours of course work.

**Requirements:**

1. Field Practice, six credit hours of independent study field practice, completion of 480 hours of field practice with Latino clients/communities (60 percent of client caseload is to be Spanish-speaking). May petition to use place of employment.
2. Social work course work, three credit hours: diversity and oppression in a social work context, an M.S.W. or B.S.W. professional who has completed this course in the past five years may substitute this course with a Latino-oriented course.
3. Latino-oriented course work, six semester hours of Latino-oriented course work. At least three hours are required to be taken from within the School of Social Work.

*Admission Requirements:* Students interested in applying to this program must submit a Graduate College online application.

**Option one,** social work graduate student admissions requirements: graduate status in the College of Public Programs' School of Social Work and demonstrated proficiency in Spanish language.

**Option two,** community professional social worker admissions requirements: possess a M.S.W., B.S.W. or related master's degree and demonstrated proficiency in Spanish language.
Option three, community worker admissions requirements: the equivalency of a two-year work experience in the social service field, undergraduate degree, demonstrated proficiency in Spanish language.

Contact:
School of Social Work
http://ssw.asu.edu
social.work@asu.edu
UCENT 800
602/496-0800

NonProfit Leadership and Management (Grad Certificate) PPNONPROCE
Official Degree Awarded: CERT Nonprofit Leadership and Management (certificate)

Program Description: The graduate certificate in nonprofit leadership and management, offered through the College of Public Programs, is a graduate program that provides students with an understanding of the nonprofit sector's role in society and with the skills necessary for effective leadership and management of these organizations. The objective of this program is to provide students with professional skills needed by leaders in the nonprofit sector, including the understanding of the historical and philosophical context for nonprofit organizations in society, the management of human resources (paid and volunteer), the theory and practice of philanthropy, financial management practices and other topical content areas.

Program Requirement: This certificate program requires 15 credit hours.

Admission Requirements: All applicants must submit the Graduate College online application. The program is available to students who are pursuing their graduate degree in a chosen field of study and who have expressed interest in pursuing careers in the nonprofit sector. In addition, the program is well suited for working professionals, who may be pursuing a graduate degree, but who wish to strengthen their skills and connections to the nonprofit community. All applicants must have two years of demonstrable nonprofit experience to obtain the graduate certificate.

For more information, see the Web site.

Contact:
http://nonprofit.asu.edu
nonprofit@asu.edu
UCENT 500
602/496-0500

Nonprofit Studies (MNpS) PPNPSMNS
College of Public Programs

Official Degree Awarded: MNPS Nonprofit Studies
Program Description: The M.Np.S. program is intended for professionals who work in or desire to work in the nonprofit sector. The degree program provides an opportunity to obtain an advanced degree that addresses the unique character of nonprofit organizations and the social sector. Students interested in nonprofit management and social sector organizations explore research, theory and the practice of management and leadership in the nonprofit sector.

Program Requirement: The M.Np.S. consists of a minimum of 33 credit hours. Students are required to take 18 credit hours of core course work, in which three hours are a capstone course that is completed at the end of the program of study. The capstone course is integrative and case-based, allowing students to synthesize material from prior course work. Successful completion of this course is required in place of a thesis or applied project.

Students complete 15 credit hours of related elective course work. Courses are selected from two contributing disciplines (public affairs and social work) to foster the interdisciplinary nature of the degree. Students may include two three credit hour courses not listed below as approved electives in their program of study as long as the student can establish an intellectual and professional development objective that substantiates the course selection.

- NLM 501 Program Evaluation and Information Management (3)
- NLM 510 Foundations in Nonprofit Management (3)
- NLM 520 Financial Management in Nonprofit (3)
- NLM 540 Volunteer and Human Resource Management in Nonprofit (3)
- NLM 550 Philanthropy: Theory and Practice (3)
- NLM 620 Capstone: Critical Issues in Nonprofit Management (3)
- Electives (15)

Admission Requirements: Potential applicants who hold a bachelor's degree from a regionally-accredited institution are eligible to apply. Applications are accepted year-round and students are granted admission for fall, spring or summer semesters. Students must submit the following to apply for the M.Np.S.:

1. Completed application form to the Graduate College.
2. Statement of educational and career goals in sufficient detail to indicate compatibility with the educational objectives and capabilities of the school.
3. Three reference letters.
4. A curriculum vitae or resume.

Applicants whose junior/senior GPA is 3.00 or higher are eligible to apply for admission to the program. Certificate students who are interested in applying for the M.Np.S. program must apply to the degree program before the completion of nine credit hours in their certificate program.

Contact:
School of Community Resources and Development
Public Administration (MPA) - Downtown Phoenix PPPADTMPA  
College of Public Programs  

Official Degree Awarded: MPA Public Administration  

Program Description: The M.P.A. is an interdisciplinary, professional degree program designed to prepare students for public service, public management and policy analysis at the local, state and national levels of government. The M.P.A. program is accredited by the National Association of Schools of Public Affairs and Administration.  

Students may also elect to specialize in one of two of the approved M.P.A. concentrations: urban management (http://spa.asu.edu/new/mpa/mpa_urban_management.htm) or nonprofit administration (http://spa.asu.edu/new/mpa/mpa_nonprofit.htm).  

The urban management concentration provides knowledge and skills for students seeking careers in local urban government management and enables students to develop the skills and techniques used by city and urban leaders and managers.  

The concentration in nonprofit administration is intended for professionals who work in or desire to work in the nonprofit sector and who wish to explore research, theory and the practice of management and leadership in the nonprofit sector. In addition, the school offers a dual M.P.A./M.S.W. program (http://spa.asu.edu/new/mpa/mpa_msw.htm) with the School of Social Work.  

Program Requirement: The M.P.A. program consists of 42 hours of graduate credit. Students take 27 of these hours in nine core classes in the School of Public Affairs, and 15 additional hours in elective courses. No more than nine credit hours of ASU graduate courses taken before admission to the school and approved by the M.P.A./M.P.P. committee can be included in the program of study.  

Students enrolling in core courses must demonstrate minimum competency in statistics and American government. Courses taken to fulfill the competency do not count toward the 42-hour degree program. Competency in statistics is met with a grade of “B” (3.00) or higher in an approved course (PAF 401, POS 401, PSY 230, QBA 221, SOC 390 or SWU 321) within the last two years or passing a diagnostic test approved by the M.P.A./M.P.P. committee. Other courses taken within the last two years may be substituted upon approval of the M.P.A./M.P.P. director.  

Competency in American government is met through an undergraduate class in American government (PAF 110, PAF 300, POS 310, POS 340 or a similar course).
Admission Requirements: Applicants to the M.P.A. program are accepted year-round. Students may be granted admission for fall, spring and summer semesters.

All applicants must submit the following materials to the School of Public Affairs:

1. Three letters of recommendation (at least two should be faculty who can evaluate applicant’s academic performance), there is no form required for the letters of recommendation.
2. Written statement of applicant’s educational and career goals (this is also used as a sample of the applicant’s writing abilities), and should be between one and two pages in length.
3. Applicants may also submit a resume or other documents.

Mail materials to:
ASU School of Public Affairs
Mail Code 3720
411 N. Central Avenue, Ste. 450
Phoenix, AZ 85004-0687

All applicants must submit the following materials to the ASU Graduate College:

1. An official ASU Graduate online application.
2. Application fee.
3. Scores on the GRE (verbal, quantitative, analytical)
4. International applicants must also submit acceptable TOEFL scores or IELTS scores.
5. Official transcripts of all undergraduate and graduate work.

Send transcripts to:
Arizona State University
Graduate College Admissions
Interdisciplinary Building, B-Wing, Room 170
P.O. Box 871003
Tempe, Arizona 85287-1003

Contact:
School of Public Affairs
http://spa.asu.edu/new/mpa/default.htm
spa@asu.edu
UCENT 400
602/496-0450

Public Administration (PhD) PPPUBADPHD
College of Public Programs

Official Degree Awarded: PHD Public Administration
Program Description: The School of Public Affairs offers a graduate program leading to the Ph.D. in public administration.

The mission of the Ph.D. program in public administration is to prepare students for an academic career as a researcher, teacher and member of the academic community. Accordingly, the Ph.D. program curriculum is theoretically grounded and research based. The program emphasizes:

1. The use of alternative theoretical frameworks and research methodologies to define, understand and develop solutions to public problems.
2. The application of normative and empirical approaches to improving democratic governance and advancing the public interest.
3. The development of skills necessary to produce and disseminate new knowledge in the field of public administration.

While the Ph.D. program is located in the School of Public Affairs, students are encouraged to tailor a course of study to fit individual needs and goals by drawing on faculty from across the university.

Program Requirement: The Ph.D. program consists of a minimum of 66 credit hours of graduate work beyond the master's degree. The program of study consists of a minimum of 42 credit hours of graduate course work beyond the master's degree, plus a minimum of 24 credit hours of dissertation and research credit. A minimum of 30 credit hours of approved course work (exclusive of dissertation and research) must be taken at ASU after admission to the program.

A sequence of four core courses (12 hours) is required of all students in their first year, followed by successfully passing a screening examination. Then students establish a program of study committee that works with them to develop an appropriate interdisciplinary course of study.

In addition to the four core courses, an approved program of study must include required courses in quantitative and qualitative methods (taken during their second year) and a professional development workshop (taken during their third year). Students are also expected to develop areas of specialization.

Admission Requirements: All applicants are expected to have completed graduate level statistics and research methods classes before admission. Applicants also are expected to have sufficient formal course work in public administration to pursue doctoral study in the field. Admitted students may be required to take deficiency courses as specified by the admissions committee before beginning the doctoral core classes.

Applicants are admitted for fall only. Admission is competitive; a limited number of well-qualified applicants will be admitted each year. A completed application packet is due by Jan. 15.
All applicants must submit the following materials to the ASU Graduate College:

1. An official online ASU Graduate application.
2. Application fee.
3. Scores on the GRE (verbal, quantitative, analytical).
4. International students must submit Test of English as a Foreign Language (TOEFL) and Test of Spoken English (TSE) scores to be considered for admission. This is true even for those who have a master’s degree from a U.S. university. To be considered for admission, the minimum score on the traditional TOEFL test is 600. Applicants with TOEFL scores below 600 or who do not submit a TSE score (or Internet-based TOEFL) will not be admitted. Only test scores from within the past five years will be accepted.
5. Official transcripts of all undergraduate and graduate work.

Send transcripts to:

Arizona State University
Graduate College Admissions
Interdisciplinary Building, B-Wing, Room 170
P.O. Box 871003
Tempe, Arizona 85287-1003

In addition to the above, applicants submit the following materials directly to the Ph.D. program:

1. A written statement of educational and career goals.
2. A current resume or curriculum vitae.
3. Three letters of recommendation. These should be primarily academic letters. All letters should address the candidate’s capacity to successfully complete the doctoral program. They should assess the student’s capacity for critical and analytic thought, their ability to communicate effectively, both orally and in writing and their commitment to completion of the program.
4. Samples of research reports and/or papers (optional).

Mail materials to:
ASU School of Public Affairs
Mail Code 3720
411 N. Central Avenue, Ste. 450
Phoenix, AZ 85004-0687

Contact:
School of Public Affairs
http://spa.asu.edu/new/phd/default.htm
spa@asu.edu
UCENT 400
602/496-0450
Public Administration (NonProfit Administration) (MPA) PPNONPRMPA
College of Public Programs

Official Degree Awarded: MPA Public Administration (Nonprofit Administration)

Program Description: The M.P.A. is an interdisciplinary, professional degree program designed to prepare students for public service, public management, and policy analysis at the local, state and national levels of government. The M.P.A. program is accredited by the National Association of Schools of Public Affairs and Administration.

Students may also elect to specialize in one of two of the approved M.P.A. concentrations:

1. Urban management, see http://spa.asu.edu/new/mpa/mpa_urban_management.htm.

The urban management concentration provides knowledge and skills for students seeking careers in local urban government management and enables students to develop the skills and techniques used by city and urban leaders and managers.

The concentration in nonprofit administration is intended for professionals who work in or desire to work in the nonprofit sector and who wish to explore research, theory, and the practice of management and leadership in the nonprofit sector.

In addition, the school offers a dual M.P.A./M.S.W. program with the School of Social Work, see http://spa.asu.edu/new/mpa/mpa_msw.htm.

Program Requirement: The M.P.A. in nonprofit administration program consists of 42 credit hours of graduate credit. Students take 24 of these hours in eight core classes in the School of Public Affairs, 12 hours in concentration courses, and six additional elective hours. No more than nine credit hours of ASU graduate courses taken before admission to the school and approved by the M.P.A./M.P.P. committee can be included in the program of study.

Students enrolling in core courses must demonstrate minimum competency in statistics and American government. Courses taken to fulfill the competency do not count toward the 42-hour degree program. Competency in statistics is met with a grade of “B” (3.00) or higher in an approved course (PAF 401, POS 401, PSY 230, QBA 221, SOC 390 or SWU 321) within the last two years or passing a diagnostic test approved by the M.P.A./M.P.P. committee. Other courses taken within the last two years may be substituted upon approval of the M.P.A./M.P.P. director.

Competency in American government is met through an undergraduate class in American government (PAF 110, PAF 300, POS 310, POS 340) or a similar course.
Admission Requirements: Applicants to the M.P.A. program are accepted all year. Students may be granted admission for fall, spring and summer semesters.

All applicants must submit the following materials to the School of Public Affairs:

1. Three letters of recommendation; at least two should be faculty who can evaluate applicant’s academic performance. There is no form required for the letters of recommendation.
2. Written statement of applicant’s educational and career goals, and should be between one and two pages in length. This is also used as a sample of the applicant’s writing abilities.
3. Applicants may also submit a resume or other documents.

Mail materials to:

ASU School of Public Affairs
Mail Code 3720
411 N. Central Avenue, Ste. 450
Phoenix, AZ 85004-0687

All applicants must submit the following materials to the ASU Graduate College:

1. An official online ASU Graduate application.
2. Application fee.
3. Scores on the GRE (verbal, quantitative, analytical).
4. International applicants must also submit acceptable Test of English as a Foreign Language (TOEFL) scores or International English Language Testing System (IELTS) scores.
5. Official transcripts of all undergraduate and graduate work.

Send transcripts to:

Arizona State University
Graduate College
Admissions
Interdisciplinary Building, B-Wing, Room 170
P.O. Box 871003
Tempe, AZ 85287-1003

Contact:
School of Public Affairs
http://spa.asu.edu/new/mpa/default.htm
spa@asu.edu
UCENT 400
602/496-0450
Public Administration (Urban Management) (MPA) PPPAFUMPA
College of Public Programs

Official Degree Awarded: MPA Public Administration (Urban Management)

Program Description: The M.P.A. is an interdisciplinary, professional degree program designed to prepare students for public service, public management and policy analysis at the local, state and national levels of government. The M.P.A. program is accredited by the National Association of Schools of Public Affairs and Administration.

Students may also elect to specialize in one of two of the approved M.P.A. concentrations: urban management (http://spa.asu.edu/new/mpa/mpa_urban_management.htm) and nonprofit administration (http://spa.asu.edu/new/mpa/mpa_nonprofit.htm).

The urban management concentration provides knowledge and skills for students seeking careers in local urban government management and enables students to develop the skills and techniques used by city and urban leaders and managers.

The concentration in nonprofit administration is intended for professionals who work in or desire to work in the nonprofit sector and who wish to explore the research, theory and practice of management and leadership in the nonprofit sector. In addition, the school offers a dual M.P.A./M.S.W. degree program (http://spa.asu.edu/new/mpa/mpa_msw.htm) with the School of Social Work.

Program Requirement: M.P.A. students pursuing the urban management concentration take 27 hours in nine core classes in the School of Public Affairs, 12 hours in four concentration classes, and three hours in one approved elective course. No more than nine credit hours of ASU graduate courses taken before admission to the school and approved by the M.P.A./M.P.P. committee can be included in the program of study.

Students enrolling in core courses must demonstrate minimum competency in statistics and American government. Courses taken to fulfill the competency do not count toward the 42-hour degree program. Competency in statistics is met with a grade of “B” (3.00) or higher in an approved course (PAF 401, POS 401, PSY 230, QBA 221, SOC 390 or SWU 321) within the last two years or passing a diagnostic test approved by the M.P.A./M.P.P. committee. Other courses taken within the last two years may be substituted upon approval of the M.P.A./M.P.P. director.

Competency in American government is met through an undergraduate class in American government (PAF 110, PAF 300, POS 310, POS 340, or a similar course).

Admission Requirements: Applicants to the M.P.A. program are accepted year-round. Students may be granted admission for fall, spring and summer semesters.
All applicants must submit the following materials to the School of Public Affairs:

1. Three letters of recommendation; at least two should be faculty who can evaluate applicant’s academic performance. There is no form required for the letters of recommendation.
2. Written statement of applicant’s educational and career goals, and should be between one and two pages in length. This is also used as a sample of the applicant’s writing abilities.
3. Applicants may also submit a resume or other documents.

Mail materials to:
ASU School of Public Affairs
Mail Code 3720
411 N. Central Avenue, Ste. 450
Phoenix, AZ 85004-0687

All applicants must submit the following materials to the ASU Graduate College:

1. An official online ASU graduate application.
2. Application fee.
3. Scores on the GRE (verbal, quantitative, analytical).
4. International applicants must also submit acceptable Test of English as a Foreign Language (TOEFL) scores or IELTS scores.
5. Official transcripts of all undergraduate and graduate work.

Send transcripts to:
Arizona State University
Graduate College Admissions
Interdisciplinary Building, B-Wing, Room 170
P.O. Box 871003
Tempe, Arizona 85287-1003

Contact:
School of Public Affairs
http://spa.asu.edu/new/mpa/default.htm
spa@asu.edu
UCENT 400
602/496-0450

Public Administration (Urbanism) PHD PPPAURBPHD
College of Public Programs

Official Degree Awarded: PHD Public Administration (Urbanism)

Program Description: The mission of the Ph.D. program in public administration is to prepare students for an academic career as a researcher, teacher and member of the
academic community. Accordingly, the Ph.D. program curriculum is theoretically grounded and research-based. The program emphasizes:

1. The use of alternative theoretical frameworks and research methodologies to define, understand and develop solutions to public problems.
2. The application of normative and empirical approaches to improving democratic governance and advancing the public interest.

The development of skills necessary to produce and disseminate new knowledge in the field of public administration. The concentration in urbanism is a mechanism for organizing varied perspectives on urbanism into a collective body of scholarship. The study of Public Administration is enriched by grounding it in a comprehensive understanding of the characteristics of urban context and the dynamic forces that shape them.

The concentration in urbanism leverages the varied interests in urbanism and help emerging scholars as they attempt to compare, contrast and take stock of urbanism. Working with faculty from across a range of departments and programs at ASU, doctoral students will be able to capture the creative tensions that scholarship on urbanism has inspired in order to stimulate a provocative, constructive kind of inquiry.

*Program Requirement*: The Ph.D. program consists of a minimum of 66 credit hours of graduate work beyond the master's degree. The program of study consists of a minimum of 42 credit hours of graduate course work beyond the master’s degree, plus a minimum of 24 credit hours of dissertation and research credit. A minimum of 30 credit hours of approved course work (exclusive of dissertation and research) must be taken at ASU after admission to the program.

A sequence of four core courses (12 hours) is required of all students in their first year, followed by successfully passing a screening examination. Then students establish a program of study committee that works with them to develop an appropriate interdisciplinary course of study.

In addition to the four core courses, an approved program of study must include required courses in quantitative and qualitative methods (taken during their second year) and a professional development workshop (taken during their third year). Students also take 15 credit hours selected from an approved list of applicable courses related to urbanism for the concentration.

1. *Admission Requirements*: Applicants must apply to the Graduate College for admission to the urbanism concentration program under the Ph.D. in public administration and meet the Graduate College criteria as well as Ph.D. program criteria for admission. The successful candidate for admission to the Ph.D. program has a M.P.A. or M.P.P. The additional expectation for admission to the concentration is a strong interest in urban affairs as indicated in the applicant’s written statement of educational and career
goals.

Applicants are admitted for fall only. Admission is competitive; a limited number of well-qualified applicants will be admitted each year. A completed application packet is due by Jan. 15.

All applicants must submit the following materials to the ASU Graduate College:

1. An official online ASU Graduate application.
2. Application fee.
3. Scores on the GRE (verbal, quantitative, analytical).
   International students must submit Test of English as a Foreign Language (TOEFL) and Test of Spoken English (TSE) scores to be considered for admission. This is true even for those who have a master's degree from a United States university. To be considered for admission, the minimum score on the traditional TOEFL test is 600. Applicants with TOEFL scores below 600 or who do not submit a TSE score (or Internet-based TOEFL) will not be admitted. Only test scores from within the past five years will be accepted.
4. Official transcripts of all undergraduate and graduate work.

Send transcripts to:

Arizona State University
Graduate College Admissions
Interdisciplinary Building, B-Wing, Room 170
P.O. Box 871003
Tempe, Arizona 85287-1003

In addition to the above, applicants submit the following materials directly to the Ph.D. program:

1. A written statement of educational and career goals.
2. A current resume or curriculum vitae.
3. Three letters of recommendation. These should be primarily academic letters. All letters should address the candidate’s capacity to successfully complete the doctoral program. They should assess the student’s capacity for critical and analytic thought, their ability to communicate effectively, both orally and in writing and their commitment to completion of the program.
4. Samples of research reports and/or papers (optional).

Mail materials to:
ASU School of Public Affairs
Mail Code 3720
411 N. Central Avenue, Ste. 450
Phoenix, AZ 85004-0687
Public Policy (MPP) PPPUBPMPP
College of Public Programs

Official Degree Awarded: MPP Public Policy

Program Description: The M.P.P. program allows students to approach the study of public policy with a focus on public policy in the urban setting. The M.P.P. program prepares students for professional careers as policy analysts and leaders in public service involved in the formulation, approval, implementation and evaluation of public policy at all levels of government and in the private and nonprofit sectors. It can also serve as a platform for preparation for doctoral studies in public policy, public administration, urban studies or other related programs. Students learn analytical techniques and conceptual frameworks for understanding policy issues and identifying potential solutions and applying these skills to real-world issues (especially relating to the needs of cities in the region). Students also gain an understanding of policies addressing issues such as poverty, education, the environment and public safety.

Program Requirement: Course work for the M.P.P. program requires a minimum of 42 credit hours, including 11 required core courses and three elective courses. Students can elect to take either PAF 571 GIS and Analysis or PAF 572 Urban Demography as one of their core courses. The course not used for the core may be used as an elective. Students are required to complete a three-semester hour capstone course which will be an integrative, client-based applied project course. Students take this in their final semester after completion of all other required core courses. This culminating experience is required in place of a thesis.

Admission Requirements: Applications to the M.P.P. program are accepted year-round. Students may be granted admission for fall, spring and summer semesters. Potential applicants who hold a bachelor’s degree from a regionally accredited institution in a related field are eligible to apply to the program.

The following entry-level competencies are needed for admission to the program: an undergraduate social statistics course along with undergraduate course work in microeconomics, including coverage of market failure and public goods. Competency in statistics is met with a grade of “B” (3.00) or higher in approved courses (PAF 401, POS 401, PSY 230, QBA 221, SOC 390) within the past two years or passing a diagnostic test approved by the M.P.A./M.P.P. committee. Other courses taken within the last two years may be substituted upon approval of the M.P.A./M.P.P. director.
Competency in microeconomics is met through earning a “B” (3.00) or higher in an undergraduate course in microeconomics, PAF 504 Public Affairs Economics, or a similar course.

All applicants must submit the following materials to the School of Public Affairs:

1. Three letters of recommendation; at least two should be faculty who can evaluate applicant’s academic performance. There is no form required for the letters of recommendation.
2. Written statement of applicant’s educational and career goals, and should be between one and two pages in length. This is also used as a sample of the applicant’s writing abilities.
3. Applicants may also submit a resume or other documents.

Mail materials to:

ASU School of Public Affairs
Mail Code 3720
411 N. Central Avenue, Ste. 450
Phoenix, AZ 85004-0687

All applicants must submit the following materials to the ASU Graduate College:

1. An official online ASU Graduate application.
2. Application fee.
3. Scores on the GRE (verbal, quantitative, analytical).
4. International applicants must also submit acceptable Test of English as a Foreign Language (TOEFL) scores or IELTS scores.
5. Official transcripts of all undergraduate and graduate work.

Send transcripts to:

Arizona State University
Graduate College
Admissions
Interdisciplinary Building, B-Wing, Room 170
P.O. Box 871003
Tempe, Arizona 85287-1003

Contact:
School of Public Affairs
http://spa.asu.edu/new/mpp/default.htm
spa@asu.edu
UCENT 400
602/496-0450
Trauma and Bereavement (Grad Certificate) HSCTBGRCT

Official Degree Awarded: CERT Trauma and Bereavement (certificate)

Program Description: There is a growing need in society for healthcare workers and clinicians to be better prepared to help clients and patients experiencing trauma. The School of Social Work graduate certificate in trauma and bereavement will better prepare individuals to work in the field of death and dying, trauma and bereavement in clinical, organizational and administrative settings, enhancing knowledge about grief responses and the effects of trauma, providing opportunities for students to research an often under-explored topic, and helping transform the sociopolitical management of grief, traumatic losses and end-of-life issues in contemporary society.

Program Requirement: The certificate requires:

1. Eighteen credit hours of graduate course work, distributed among three core courses.
2. An applied project.
3. Two electives.

Admission Requirements: Deadline: April 1 for summer admission; Nov. 1 for spring admission.

All applicants must submit an application and application fee to the Graduate College. In addition the following materials are to be submitted to the School of Social Work.

1. The School of Social Work certificate application. The application is available on the department Web site.
2. Resume.
3. Three references, on the forms available on the department Web site.
4. A 2 to 4 page, doubled-spaced, personal statement (guidelines are listed on the application).
5. Unofficial transcripts from all institutions granting you an undergraduate or graduate degree.

Contact:
School of Social Work
http://ssw.asu.edu/
social.work@asu.edu
UCENT 800
602/496-0800

Tucson / Downtown Phoenix - Social Work - Standard Program (MSW) PPSWDMSW
College of Public Programs

Official Degree Awarded: MSW Social Work
Program Description: The professional program leading to the M.S.W. prepares social workers for advanced direct practice or planning, administration and community practice. The program is designed to prepare social workers to be capable of responding effectively to the needs of special populations in the Southwest. The M.S.W. program is accredited by the Council on Social Work Education.

Program Requirement: Students begin the standard M.S.W. program in the fall. It is divided into a foundation year (core curriculum) and a concentration year. In the concentration year, students pursue a concentration in either:

- Advanced direct practice.
- Planning, administration and community practice.

The planning, administration and community practice courses are generally not offered in Tucson. Students who select the advanced direct practice concentration also select one of the following three specializations:

- Children, youth and families.
- Health, behavioral health.
- Public child welfare.

All specializations may not be available in Tucson. During both years, students spend two days a week in a practicum setting.

The following foundation courses are required:

- D SWG 501 Micro Human Behavior in the Social Environment (3)
- D SWG 502 Macro Human Behavior in the Social Environment (3)
- D SWG 510 Foundation Practice I (3)
- D SWG 511 Foundation Practice II (3)
- D SWG 519 Research Methods in Social Work (3)
- D SWG 531 Social Policy and Services I (3)
- D SWG 533 Diversity and Oppression in a Social Work Context (3)
- D SWG 541 Field Practicum I (3)
- D SWG 542 Field Practicum II (3)
- D SWG 585 Macro Social Work Practice (3)

The following concentration courses are required for the planning, administration and community practice concentration:

- D SWG 623 Agency and Community-Based Research in Social Work (3)
- D SWG 632 Social Policy and Services II (3)
- D SWG 643 Advanced Practicum: Planning, Social Work Administration and Community Practice I (3)
- D SWG 644 Advanced Practicum: Planning, Social Work Administration and Community Practice II (3)
- D SWG 681 Social Work Administration (3)
Elective credit may be selected from offerings at the School of Social Work or courses offered through other departments with the approval of the M.S.W. program coordinator.

The advanced direct practice concentration requires completion of one of the following three groups of required specialization courses.

**Children, youth and families**

- D SWG 606 Assessment of Mental Disorders (3)
- D SWG 608 Ecological Approach to Practice with Children, Youth and Families (3)
- D SWG 619 Practice-Oriented Research (3)
- D SWG 617 Advanced Social Work Practice with Children and Adolescents (3)
- D SWG 621 Integrative Seminar
- D SWG 641 Advanced Practicum: Direct Practice I (3)
- D SWG 642 Advanced Practicum: Direct Practice II (3)

Electives: Nine hours. Two electives must be from an approved list of electives.

**Health, behavioral health**

- D SWG 603 Practice in Health/Behavioral Health Settings (3)
- D SWG 606 Assessment of Mental Disorders (3)
- D SWG 619 Practice-Oriented Research (3)
- D SWG 621 Integrative Seminar (3)
- D SWG 641 Advanced Practicum: Direct Practice I (3)
- D SWG 642 Advanced Practicum: Direct Practice II (3)

Choose one of the following courses:

- D SWG 604 Advanced Social Work Practice in Health (3)
- D SWG 613 Advanced Social Work Practice in Behavioral Health (3)

Electives: Nine hours. Two electives must be from an approved list of electives.

**Public child welfare**

- D SWG 606 Assessment of Mental Disorders (3)
- D SWG 608 Ecological Approach to Practice with Children, Youth and Families (3)
- D SWG 609 Advanced Social Work Practice with Child Welfare Families (3)
- D SWG 619 Practice-Oriented Research (3)
D SWG 621 Integrative Seminar (3)
D SWG 633 Ch

**Admission Requirements:** Applicants must follow the procedures for admission to the Graduate College. Applications to the standard M.S.W. program are accepted from Nov. 1 to March 1, or for priority review by Feb. 1, preceding the fall semester to which the applicant is seeking admission. Applicants admitted to the standard M.S.W. program begin classes in the fall.

All applicants for the standard M.S.W. program must submit the following to the School of Social Work:

1. A School of Social Work application form.
2. A statement of educational and career goals.
3. A professional resume that includes volunteer and paid work experience.

A combination of academic and professional references is desirable. References from friends, family members or personal therapists are not accepted.

Test scores from either the GRE or the Miller Analogies test are required only if the applicant's GPA was below a 3.00 on a 4.00 scale, during his or her junior and senior years. In addition, all applicants must submit to the Graduate College the following:

1. A completed online Graduate College application form.
2. The application fee.
3. An official transcript of all academic work completed or in progress.

The School of Social Work requires one of the following:

1. A liberal arts undergraduate degree.
2. A B.S.W. from a Council on Social Work Education accredited school of social work.
3. Another undergraduate degree, with 30 credit hours in liberal arts courses at the undergraduate or graduate level. The 30 credit hours must include course work from the social/behavioral sciences, natural sciences and humanities. The distribution should approximate the current curriculum for the B.S.W. program: 18 hours in social and behavioral sciences, six hours in natural sciences with at least one course in human biology and six hours in humanities.

All students are required to successfully complete a course in human biology before enrollment in the graduate program. Additionally, all students must have successfully completed a course in statistics before admission. If the statistics requirement has not been met, then an equivalent course must be successfully completed either by Dec. 31 or before registering for SWG 519.

**Part-time Program**
Students are admitted each fall to a planned part-time program. Students interested in this option must specifically apply to the part-time program and complete it in accordance with the plan developed to finish the degree in three years.

**Transfer Credit**

Upon recommendation of the admissions committee, the first year of graduate study (up to 30 graduate credit hours) earned at another CSWE accredited school of social work may be transferred and applied toward the M.S.W. at ASU. Under these circumstances, the student must complete the second full year of graduate study (at least 30 credit hours of graduate work) at ASU, resulting in a 60-hour program composed of the work from both schools. A full report from the school at which the intended transfer credit was obtained is required.

**Nondegree Course Work**

A maximum of nine graduate credit hours earned as a nondegree student in the ASU School of Social Work or six credit hours earned at another graduate degree program at ASU may be applied toward the program of study. A combination of credit earned as a nondegree student at ASU or transferred from another university may not exceed nine hours, and of those nine hours, no more than six hours may be electives. Consideration for acceptance of nondegree work must be applied for at the time of admission.

**Exemption and Waiver Examinations**

The number of hours required to complete the Standard M.S.W. degree ranges from 45 to 60 credit hours. In addition to transferring in credit (see previous section on transfer credit), admitted students may acquire up to 15 hours of credit towards the degree by a combination of: (1) exempting up to fifteen hours of foundation course work without examination or (2) passing an examination in any of the following foundation courses: SWG 501, SWG 502 or SWG 519.

**Exemptions.** Only students with B.S.W.s from CSWE accredited programs can be considered for exemptions. To be eligible for an exemption from any course, students must have received their B.S.W. no more than five years prior to the date of admission. Students awarded a B.S.W. by ASU are exempted from the courses listed below (if the GPA requirement is met). B.S.W. students from other accredited programs may also be exempted from the same courses but must submit their course content material (course description, syllabus and outline) for an equivalency review. B.S.W. students may be exempted from the following courses:

- SWG 501, if the student completed SWU 301 prior to fall 2007 and SWU 340 prior to spring 2008 and completed both courses with an “A” (4.00); or if the
student completed SWU 301 after spring 2007 with an “A” (4.00); or completed an equivalent social work course(s).

- SWG 502, if the student completed SWU 301 prior to fall 2007 and SWU 340 prior to spring 2008 and completed both courses with an “A” (4.00); or if the student completed SWU 340 after fall 2007 with an “A” (4.00); or completed an equivalent social work course(s).
- SWG 519, if the student has at least an “A” (4.00) in SWU 320 or 420; or an equivalent social work course.
- SWG 531, if the student has at least an “A” (4.00) in SWU 171 and SWU 332 or 432; or an equivalent social work course.
- SWG 533, if the student has at least an “A” (4.00) in SWU 374 or 474; or an equivalent social work course.

Contact:
School of Social Work
http://ssw.asu.edu/
social.work@asu.edu
UCENT 800
602/496-0800

Sustainability, School of

Sustainability (MS) SUSUSTMS
School of Sustainability

Official Degree Awarded: MS Sustainability

Program Description: The M.S. in sustainability is offered for students who have completed a bachelor’s degree. The program prepares students to address some of the most pressing concerns of the 21st century. Students learn how different disciplines view and approach the challenges of sustainability in theory, research and practice. They develop the academic and technical skills as well as the ethical insights that will help them understand, research and provide solutions to complex sustainability challenges at the local, regional, national and global levels. Although the graduate-degree programs emphasize the integration of a broad range of expertise in student training, the M.S. program is best suited to students inclined toward natural sciences or engineering.

All sustainability graduate students will possess:

1. The breadth of vision to recognize the interconnectedness of social, economic and environmental systems.
2. The critical thinking skills to approach sustainability challenges from a systems perspective.
3. The technical skills to formulate and solve problems at the appropriate scale.
4. An understanding of the need for an interdisciplinary approach to solving sustainability challenges.
5. The skills needed to work effectively in interdisciplinary teams.
6. The ability to communicate their work to professionals in other disciplines, policy-makers and the general public.

In addition to the common learning outcomes, M.S. students will be able to:

1. Understand the concepts and methods of environmental economics, ecology, environmental biology, hydrology, environmental chemistry, engineering, earth systems management and other disciplines relevant to the sustainable use of environmental resources;
2. Lead others in applying these concepts and methods to the development of sustainable strategies for water, land, air and urban management at the local and global level.
3. Apply appropriate metrics and indicators to evaluate the sustainability of technology, the built environment and their environmental regulations and policy.
4. Research particular problems in the sustainability of the economic and natural environment.

Program Requirement: This degree program requires 33 credit hours. Each student will formulate a program of study in consultation with their supervisory committee. The master’s programs are divided into the following four areas:

1. Core courses.
2. Problem-focused seminars and workshops.
3. Required research (for the thesis option).
4. Elective courses.

The taught-course element of the program will be evaluated through course-specific examinations, research papers and/or applied projects and will be considered to have been successfully completed if the student obtains a 3.25 or higher. The Graduate College policies and procedures for admission to the program and for fulfillment of degree requirements must also be met.

Admission Requirements: The School of Sustainability encourages applicants with diverse educational backgrounds and experience that are relevant to the school’s core objectives. In addition to the general requirements for admission to the Graduate College, the School of Sustainability requires graduate applicants to provide GRE scores, three letters of recommendation and a statement of intent. The statement of intent should not exceed 600 words and should:

1. Explain why the student is applying to the School of Sustainability.
2. Outline the student’s relevant background information.
3. Describe the outcomes expected from the program.
4. Identify potential faculty advisors and areas of research/study.
5. Elaborate on how the degree will support the student’s aspirations and goals.
Although it is not required, applicants are also encouraged to submit a resume or curriculum vitae.

Contact:
School of Sustainability
http://schoolofsustainability.asu.edu/
schoolofsustainability@asu.edu
GIOS 108
480/727-6963

Sustainability (PhD) SUSUSTPHD
School of Sustainability

Official Degree Awarded: PHD Sustainability

Program Description: The Ph.D. in sustainability is offered for students who have completed a bachelor's or master's degree. The doctoral program prepares students to become scientists and leaders in research to investigate the urgent sustainability challenges of the 21st century. Ph.D. graduates will possess an advanced understanding of the dynamics of coupled socioecological systems and be able to lead others in research providing adaptive solutions to specific sustainability challenges. The flexible, interdisciplinary nature of the program allows students to focus on problems of interest to them, drawing upon relevant knowledge from a variety of disciplines.

All sustainability graduate students will possess:

1. The breadth of vision to recognize the interconnectedness of social, economic and environmental systems.
2. The critical thinking skills to approach sustainability challenges from a systems perspective.
3. The technical skills to formulate and solve problems at the appropriate scale.
4. An understanding of the need for an interdisciplinary approach to solving sustainability challenges.
5. The skills needed to work effectively in interdisciplinary teams.
6. The ability to communicate their work to professionals in other disciplines, policy-makers and the general public.

In addition to the common learning outcomes, Ph.D. students will be able to:

1. Understand the concepts and methods of a number of critical disciplines bearing on the sustainability of systems at different spatial/temporal scales.
2. Lead others in applying these concepts and methods to the development of sustainable strategies for water, land, air and urban management at the local and global level.
3. Lead others in the analysis and design of the built environment and institutions' policies, regulations and technologies to support sustainable development.
4. Conduct research on particular sustainability challenges using standard skills, including the capacity to identify problems; formulate and test hypotheses; use statistical, econometric and geographical-information-system techniques to construct and analyze datasets; and build and apply models.

Program Requirement: Students may be admitted to the program with a bachelor's or master's degree from relevant fields. The degree requirement is 84 credit hours of work beyond the bachelor's level. Up to 30 credit hours of master's-level work in a related field can be accepted toward the fulfillment of the Ph.D. requirements. Each student formulates a program of study in consultation with his or her supervisory committee. The doctoral program is divided into the following four areas:

1. Core courses.
2. Problem-focused seminars and workshops.
3. Required research.
4. Elective courses.

Each program of study must include 24 credit hours of a combination of research and dissertation. The taught-course element of the program will be evaluated through course-specific examinations, research papers and/or applied projects and will be considered to have been successfully completed if the student obtains a GPA of 3.25 or higher. Graduate College policies and procedures for admission to the program and fulfillment of degree requirements must also be met.

Admission Requirements: The School of Sustainability encourages applicants with diverse educational backgrounds and experience that are relevant to the school's core objectives. In addition to the general requirements for admission to the Graduate College, the School of Sustainability requires graduate applicants to provide GRE scores, three letters of recommendation and a statement of intent. The statement of intent should not exceed 600 words and should:

1. Explain why the student is applying to the School of Sustainability.
2. Outline the student's relevant background information.
3. Describe the outcomes expected from the program.
4. Identify potential faculty advisors and areas of research/study.
5. Elaborate on how the degree will support the student's aspirations and goals.

Although it is not required, applicants are also encouraged to submit a resume or curriculum vitae.

Contact:
School of Sustainability
http://schoolofsustainability.asu.edu/
schoolofsustainability@asu.edu
GIOS 108
480/727-6963
Teacher Education and Leadership, College of

Early Childhood Education - Certification/Endorsement (MED) TEECDMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Curriculum and Instruction (Early Childhood Education)

Program Description: The M.Ed. in early childhood education is administered by the College of Teacher Education and Leadership (CTEL) at the West campus, curriculum and instruction (early childhood endorsement and certification) master's program. This option will provide you with the early childhood endorsement and an M.Ed. in curriculum and instruction or an M.Ed. in early childhood with certification depending on the pathway you choose. The courses are taught 100 percent online; however, your practicum placements will be determined by the campus you select for admission.

For more information on the concentration, program, and college, consult the college Web site.

Program Requirement: A minimum of 30 credit hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete an applied project as a culminating activity.

Admission Requirements: Applicants must apply to the ASU Graduate College and to the specific program and specialization to which they seek admission (endorsement or certification). Admission to a degree program is based on undergraduate and/or graduate GPAs.

Contact:
Educational Leadership & Innovation, Division W
http://www.ctel.asu.edu/programs/
ctelgrad@asu.edu
FABS236
602/543-5595

Early Childhood Education - Endorsement only (MEd) EDCHILDMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Curriculum and Instruction (Early Childhood Education)

Program Description: The M.Ed. in curriculum and instruction with a concentration in early childhood education is a practitioner’s degree program designed to facilitate the development of advanced level professional knowledge, skills and
understanding. The program emphasizes inclusion practices in early education classrooms. Course work focuses on developmental diversity, full inclusion practices and culturally relevant early education. Early childhood education encompasses education and care of children from birth through the primary grades. The discipline of early childhood education includes the ability to communicate and work with parents and other adults and agencies that serve young children. The program prepares professionals who can (1) educate and research to provide programs and services that are appropriate for young children from diverse backgrounds and (2) conduct research on the range of issues influencing young children’s education and well-being.

An online M.Ed. is also offered, which offers coursework for an early childhood endorsement for teachers who are already certified. It begins with a one-day, on-campus orientation each semester. Supervised pre-K internship/student teaching (four credit hours) and a passing score on the early childhood subject knowledge portion of the Arizona Educator Proficiency Assessment are required for the endorsement.

Program Requirement: A minimum of 30 credit hours of graduate credit is required for the M.Ed. in curriculum and instruction. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete either a comprehensive examination, a research project or an applied project as a culminating activity after completing a minimum of 24 of the 30 credit hours listed on the program of study. Students must select their culminating activity in consultation with their faculty advisor before completing their program of study. Students who choose to complete an applied project must enroll in teacher as researcher the semester prior to completing the applied project, and they must meet with their graduate advisor for approval of the applied project. For more information, refer to the curriculum and instruction M.Ed. student handbook.

Admission Requirements: The following are required:

1. Application to the Graduate College.
2. Transcripts.
4. Statement of research interests.
5. A writing sample (approximately 10 pages long).
6. GRE scores.
7. Three letters of recommendation from individuals who can speak to the applicant’s potential for success in a graduate program. Additional materials may be required to gain admission into certain programs or cohorts.

Contact:
http://education.asu.edu/prospective_students/graduate_studies
cnigrad@asu.edu
ED 434
480/965-4602
Educ Administration & Supervision - Principalship (MEd) TEPRINMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Educational Administration and Supervision (Principalship)

Program Description: The M.Ed. in educational administration and supervision with a concentration in principalship is designed to lead towards the Arizona Principal Certificate Prekindergarten-12. Principalship specialization is based on the Interstate School Leaders Licensure Consortium (ISLLC) standards. Students completing the program (including the internship) and providing evidence of three years of K-12 teaching experience may obtain an Institutional Recommendation to expedite their certification as principals.

Program Requirement: This program requires 36 credit hours. Students in the M.Ed. in educational administration and supervision program complete:

1. Core requirements (nine credit hours).
2. Program requirements (six credit hours).
3. Concentration requirements (21 to 30 credit hours).
4. A written comprehensive examination is required.

Admission Requirements:

1. All requirements of the ASU Graduate College.
2. Three letters from professional references.
3. Résumé.
4. Two-page personal statement describing professional goals. In most classes, students work with a school principal (or in the superintendency program, a superintendent) in order to provide for the application of knowledge in real world settings. It is wise to obtain one of your recommendations from the principal you plan to work with to demonstrate your supervisor's judgment as to your potential as an administrator. GRE scores are not required for admission.

Contact:
Educational Leadership & Innovation, Division W
http://www.ctel.asu.edu/programs/
ctelgrad@asu.edu
FAB S236
602/543-5595

Educational Ldrship and Innovation - Policy/Admin (EdD) TEINNPAEDD
College of Teacher Education and Leadership

Official Degree Awarded: EdD Leadership and Innovation (Policy and Administration)
Program Description: The Ed.D. in leadership and innovation is open to students who have a master’s degree in education or a closely related field. It is a cohort program designed to equip educational leaders, innovators and scholars with deep understanding, dispositions and skills to lead change and examine its impacts in the workplace. Courses are designed to meet the needs of working professionals integrating face-to-face and online learning.

Program Requirement: This program requires 90 credit hours, including a master’s degree:

1. Professional core: 12 hours.
2. Research core: nine hours.
3. Electives: 18 hours.
4. Participation in leader scholar communities (directed field-based studies), nine hours.
5. Comprehensive examination.

Admission Requirements:

1. All requirements of the ASU Graduate College.
2. A master’s degree in education or a related field from a regionally accredited institution.
3. Three letters from professional references.
4. A current résumé.

Contact:
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/
CTELgrad@asu.edu
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602/543-5595

Educational Ldrship and Innovation - Teaching (EdD) TEINNTEDD
College of Teacher Education and Leadership

Official Degree Awarded: EdD Leadership and Innovation (Teaching)

Program Description: The Ed.D. in leadership and innovation is open to students who have a master’s degree in education or a closely related field. It is a cohort program designed to equip educational leaders, innovators and scholars with the deep understanding, dispositions and skills to lead change and examine its impact in the workplace. Courses are designed to meet the needs of working professionals integrating face-to-face and online learning.

Program Requirement: This program requires 90 credit hours, including a master’s degree:
1. Professional core: 12 hours.
2. Research core: nine hours.
3. Electives: 18 hours.
4. Participation in leader scholar communities (directed field-based studies): nine hours.
5. Comprehensive examination: 12 hours.

Admission Requirements:

1. All requirements of the ASU Graduate College.
2. A master’s degree in education or a related field from a regionally accredited institution.
3. Three letters from professional references.
4. A current résumé.

Contact:
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/
CTELgrad@asu.edu
FAB S236
602/543-5595

Elementary Ed (Content Academy) (MEd) TECONTMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Elementary Education (Content Academy)

Program Description: The master's degree in elementary education with content academy specialization is available only for students in districts with a professional development partnership agreement with the College of Teacher Education and Leadership at ASU at the West campus. The content academies focus on reading, mathematics and science for primary, intermediate and middle school levels. The content academies are 80 percent content and 20 percent pedagogy. Courses are taught via distance learning.

Program Requirement: Students must complete a total of 33 credit hours to complete the M.Ed. education. The degree program includes 21 hours of content academy options. A comprehensive examination completes the master’s program.

Admission Requirements: Applicants must apply to the ASU Graduate College and to the specific program and concentration to which they seek admission. Admission to a degree program is based on:

- Undergraduate and/or graduate GPAs.
- Letters of recommendation.
- Personal statement.
- Work and academic experience.
- The availability of faculty to supervise academic areas of interest.
• Applicants to the elementary or secondary programs must hold valid Arizona teaching certificates for those grade levels unless they are pursuing an M.Ed. with certification.

Contact:
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/
ctelgrad@asu.edu
FAB S236
602/435-595

Elementary Ed (Ed Technology) (MED) TEEDTECMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Elementary Education (Educational Technology)

Program Description: The master's degree in elementary education with a specialization in educational technology is designed to assist practicing teachers acquire the knowledge base and skills necessary to develop and provide the most current instructional methods and materials for their students. The emphasis of the program is on practical classroom applications that are based on the latest theory, research and best current practice.

Program Requirement: Students must complete a total of 33 credit hours, including 21 credits in their concentration and an applied project which completes the program.

Admission Requirements: Applicants must apply to the ASU Graduate College and to the specific program and concentration to which they seek admission. Admission to a degree program is based on:

• Undergraduate and/or graduate GPAs.
• Letters of recommendation.
• Personal statement.
• Work and academic experience.
• The availability of faculty to supervise academic areas of interest.
• Applicants to the elementary or secondary programs must hold valid Arizona teaching certificates for those grade levels unless they are pursuing an M.Ed. with certification.

Contact:
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/
ctelgrad@asu.edu
FAB S236
602/543-5595
Elementary Ed (Reading) (MEd) TERDGMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Elementary Education (Reading)

Program Description: The master's degree in elementary education with a specialization in reading is designed to assist practicing teachers acquire the knowledge base and skills necessary to develop and provide the most current instructional methods and materials for their students. The emphasis of the program is on practical classroom applications that are based on the latest theory, research and best current practice. The program leads toward an Arizona state endorsement as a reading specialist.

Program Requirement: Students must complete a total of 33 credit hours, including 21 credits in their concentration and a comprehensive examination which completes the program.

Admission Requirements: Applicants must apply to the ASU Graduate College and to the specific program and concentration to which they seek admission. Admission to a degree program is based on:

- Undergraduate and/or graduate GPAs.
- Letters of recommendation.
- Personal statement.
- Work and academic experience.
- The availability of faculty to supervise academic areas of interest.
- Applicants to the elementary or secondary programs must hold valid Arizona teaching certificates for those grade levels unless they are pursuing an M.Ed. with certification.

Contact:
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/
ctelgrad@asu.edu
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602/543-5595

Elementary Education (Teacher Certification Accelerated) (MEd) TEEEACLMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Elementary Education (Teacher Certification Accelerated)

Program Description: The master's degree in elementary education with teacher certification M.Ed. in is administered by the College of Teacher Education and Leadership from ASU at the West campus. This concentration is appropriate for those who hold a bachelor's degree and who do not have teacher certification, who
wish to become certified in Arizona and earn a master’s degree at the same time. Note that several delivery options are available which are listed as specializations.

**Program Requirement:** A minimum of 33 credit hours of graduate credit is required for the M.Ed in elementary education with certification. Each student is assigned a graduate advisor to design the program of study. Students in this program will complete an applied projects a culminating activity.

**Admission Requirements:** Applicants must apply to the ASU Graduate College through the online application. Admission to a degree program is based on undergraduate and/or graduate GPAs.

**Contact:**
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/
ctelgrad@asu.edu
FAB S236
602/543-5595

**Physical Education - Polytechnic Campus (MPE) ECPHYEDMPE**
College of Teacher Education and Leadership

**Official Degree Awarded:** MPE Physical Education

**Program Description:** Graduates of the M.P.E. program gain advanced knowledge of curriculum, instructional practices and administrative procedures in physical education and sports. Emphasis is placed on improving instructional effectiveness and developing quality sport and physical education programs in school settings.

**Program Requirement:** The degree requires 33 credit hours including:

1. An applied project.
2. Development of a professional portfolio.
3. A final written comprehensive examination.

The degree has two tracks.

**Physical education K-12 teaching track:**

1. Core studies: 21 hours.
2. Education cognate courses: 6 hours.
3. Electives: 6 hours.

**Physical education pedagogy track:**

1. Core studies: 21 hours.
2. Education cognate courses: 6 hours.
3. Electives: 6 hours.
Admission Requirements: In addition to the Graduate College application, submit the following items:

1. Letter of intent stating why you are interested in the program and how it will meet your professional goals.
2. Current résumé.
3. Three professional letters of recommendation addressing experiences with children and/or families.
4. Official (sealed) transcripts with institution’s name and degree granted date. All application materials need to be sent to the Graduate College’s admission office.

Contact:
Educational Leadership & Innovation, Division W
http://www.poly.asu.edu/education/
polytechniceducation@asu.edu
SUTON 240
480/727-1103

Secondary Ed (ED Technology) (MEd) TESEDTCMED
College of Teacher Education and Leadership

Official Degree Awarded: MEd Secondary Education (Educational Technology)

Program Description: This program advances the knowledge and skill of future high school or middle school teachers. It is designed to assist practicing teachers acquire the knowledge base and skills necessary to develop and provide the most current instructional methods and materials for their students.

Program Requirement: Students must complete a total of 33 credit hours, including 15 credits in their concentration and an applied project which completes the program.

Admission Requirements: Applicants must apply to the ASU Graduate College and to the specific program and concentration to which they seek admission. Admission to a degree program is based on:

- Undergraduate and/or graduate GPAs.
- Letters of recommendation.
- Personal statement.
- Work and academic experience.
- The availability of faculty to supervise academic areas of interest.
- Applicants to the elementary or secondary programs must hold valid Arizona teaching certificates for those grade levels unless they are pursuing an M.Ed. with certification.

Contact:
Educational Leadership & Innovation, Division W
Secondary Ed (Teacher Certification) (MEd) TESCERTMED
College of Teacher Education and Leadership

**Official Degree Awarded:** MEd Secondary Education (Teacher Certification)

**Program Description:** The master’s degree in secondary education with teacher certification is a specialization designed for those with bachelor’s degrees who wish to earn an M.Ed. along with their secondary certification grades 7-12 in a specific content area.

**Program Requirement:** The M.Ed. in secondary education requires 33 credit hours of course work and completion of an applied project. Students must complete 48 credit hours which includes student teaching to receive Arizona certification.

**Admission Requirements:** The master’s degree in secondary education with teacher certification is a specialization designed for those with bachelor’s degrees who wish to earn an M.Ed. along with their secondary certification grades 7-12 in a specific content area.

**Contact:**
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs
CTELquestions@asu.edu
FAB S236
602/543-5595

Secondary Education (Tailored) (MEd) TESECEDMED
College of Teacher Education and Leadership

**Official Degree Awarded:** MEd Secondary Education

**Program Description:** This program is tailored to meet the needs of practicing or future high school or middle school teachers. The five electives can be used in a variety of ways that are chosen in consultation with an academic advisor. Typical configurations include content classes (such as history teachers taking history classes), educational technology, literacy and English as a second language courses. This program is designed to help teachers advance their knowledge and skills to become well-rounded teachers. For teachers needing more course work in one content area, the electives may enable them to become highly qualified.

**Program Requirement:** This program requires 33 credit hours, including 15 credits in their concentration and an applied project.
**Admission Requirements:** Applicants must apply to the ASU Graduate College and to the specific program and concentration to which they seek admission. Admission to a degree program is based on:

- Undergraduate and/or graduate GPAs.
- Letters of recommendation.
- Personal statement.
- Work and academic experience.
- The availability of faculty to supervise academic areas of interest.
- Applicants to the elementary or secondary programs must hold valid Arizona teaching certificates for those grade levels unless they are pursuing an M.Ed. with certification.

**Contact:**
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs
CTELquestions@asu.edu
FAB S236
602/543-5595

**Special Ed (Teacher Certification) (MEd) TESECRTMED**
College of Teacher Education and Leadership

**Official Degree Awarded:** MEd Special Education (Teacher Certification)

**Program Description:** The master's in special education with Arizona certification, is a specialization designed for those individuals with a bachelor's degree who want to earn an M.Ed. along with dual Arizona certifications in K–12 special education and grades one to eight elementary education. Students also receive a mild cross-categorical endorsement and provisional ESL endorsement.

**Program Requirement:** The M.Ed. in special education requires 33 credit hours of course work and completion of an applied project. Students must complete 51 credit hours; however, in order to receive Arizona certification.

**Admission Requirements:** Applicants must submit a Graduate College online application. Admission to a degree program is based on undergraduate and/or graduate GPAs.

A prerequisite course in introductory special education must also be met: SPE 222, SPE 311 and SPE 511.

**Contact:**
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs/special_ed/
ctelgrad@asu.edu
FAB S236
602/543-5595
Special Education (Consultation and Collaboration) (MEd) TESECCMED

College of Teacher Education and Leadership

Official Degree Awarded: MEd Special Education (Consultation and Collaboration)

Program Description: The master’s degree in special education with specialization in collaboration and consultation is designed to assist practicing teachers to acquire the knowledge base and skills necessary to develop and provide the most current instructional methods and materials for their students. The program emphasizes practical classroom applications which are based on the latest theory, research and best current practice. This program also emphasizes collaboration and consultation with other interdisciplinary professionals and parents. The program is designed with the assistance of a faculty advisor to meet the needs of a student’s professional and career goals.

Program Requirement: Students must complete a total of 33 credit hours consisting of:

1. Nine hours of M.Ed. core (TEL 501, SPE 540, SPE 541).
2. Eighteen credit hours of special education (selected from SPE 512, SPE 520, SPE 521, SPE 531, SPE 536, SPE 548, SPE 561, SPE 598).
3. Three credit hours of special education practicum (SPE 580).
4. Three credit hours of applied project (SPE 593) to complete the program.

Admission Requirements: Applicants must apply to the ASU Graduate College and to the specific program and concentration to which they seek admission. Admission to a degree program is based on:

- Undergraduate and/or graduate GPAs.
- Letters of recommendation.
- Personal statement.
- Work and academic experience.
- The availability of faculty to supervise academic areas of interest.
- Applicants to the elementary or secondary programs must hold valid Arizona teaching certificates for those grade levels unless they are pursuing an M.Ed. with certification.

Contact:
Educational Leadership & Innovation, Division W
http://ctel.asu.edu/programs
ctelgrad@asu.edu
FAB S236
602/543-5595
Technology and Innovation, College of

Alternative Energy Technologies (MSTECH) TSATMSTech
College of Technology and Innovation

Official Degree Awarded: MSTech Electrical Engineering Technology (Alternative Energy Technologies)

Program Description: The M.S.Tech. with a concentration in alternative energy technologies explores the demands of energy resources in the new economy. This degree program is designed for sufficient flexibility to permit the student to select a combination of courses in a technical concentration, alternative energy technologies and supporting area to meet individual career goals. The research activities in the alternative energy technologies field include the use of energy sources such as solar, wind, ocean, geothermal and biomass. At the heart of the program is the concept of the solar-hydrogen cycle, a renewable energy scenario that comprises production of electricity from solar energy, and utilizing electricity to split water into its elemental parts. The required research provides students with an opportunity to develop special research and application skills directly related to individual needs and objectives in the field of alternative energy technologies.

Program Requirement: Thesis Option  (33 credit hours)

Concentration (15-16)
Supporting Area (8-9)
Research methods courses:

EET 500 Research/Writing (2)
EET 591 Graduate Seminar (1)
EET 599 Thesis (6)

A minimum of 20 credit hours must be 500-level courses. At least nine hours of 500-level course work must be included in the technical concentration. Students may take up to six credit hours of 400-level course work to broaden their technical knowledge within the concentration or supporting area. Students are required to complete six hours of EET 599 Thesis, write a thesis and make an oral defense. All course work applied toward the minimum 33 credit hour total must be at the 400 and 500 level.

Nonthesis Option  (33 credit hours)

Concentration (15-18)
Supporting Area (9-12)
Research Methods Courses:
Admission Requirements: Prerequisites

Applicants are required to have earned a bachelor's degree that includes a minimum of 30 credit hours or equivalent in a technology area including course work applicable to the concentration being sought, and a minimum of 16 credit hours of mathematics and science. Depending upon the background of the student, the following application materials are necessary:

Graduate College online application.
Application fee.
Official transcripts from every college and university previously attended.
Test score reports. The Test of English as Foreign Language (TOEFL) report may be necessary for international students. The GRE is not required by the Department of Engineering Technology.
Domicile affidavit for applicants claiming Arizona residency.
Financial guarantee form (required for international students). Visit the Graduate College Web site for more information.

Contact:
Department of Engineering Technology
http://technology.asu.edu/engrtech
engrtech@asu.edu
480/727-1976

Applied Biological Sciences (MS) TSAPBIOSMS
College of Technology and Innovation

Official Degree Awarded: MS Applied Biological Sciences

Program Description: The M.S. in applied biological sciences is designed to train students who are technically proficient in the laboratory and the field, who know the technical literature in their field of research, who are articulate in oral and written communication and who understand the societal and policy implications of their work. The degree is supported by faculty with backgrounds in ecological restoration, environmental biotechnology, environmental policy, plant systematics, urban horticulture and wildlife biology.

All students are required to complete a core of graduate courses, conduct a research project under the direction of a faculty member and prepare and defend a research thesis.

Program Requirement: Program of Study: A minimum of 30 credit hours of approved graduate course work is required. All students are required to complete
two seminars: ABS 591 in the spring semester and ABS 691 in the fall semester. All students must complete six credit hours of thesis. The remaining hours are chosen to support the student's educational objectives.

There are no foreign language requirements and no comprehensive examinations.

**Thesis Requirements:** A thesis is required.

**Final Examinations:** A final oral examination covering the thesis and related subject matter is required.

**Admission Requirements:** Applicants to the program are expected to meet the minimum requirements for admission to the Graduate College. In addition, scores from the GRE (minimum score of 1080, verbal and quantitative combined) or Miller Analogies Test (minimum score 45) are required. Applicants are expected to have completed 18 credit hours in biological sciences and closely-related courses. Specific fields of study may have specific expectations regarding courses taken at the undergraduate level. Applicants not meeting these course requirements may be considered for admission with deficiencies.

Submit the following separate application materials to:

Department of Applied Biological Sciences  
School of Applied Arts and Sciences  
Arizona State University  
6073 S. Twining  
Mesa, AZ 85212-6032

1. A statement of intent (maximum 600 words) explaining, 1) the applicant's interest in environmental resources, 2) the applicant's academic background, and 3) the applicant's educational objectives.
2. Three letters of recommendation from references who are qualified to comment on the applicant's potential in the selected area of study.
3. A résumé.

**Application Deadlines**

For fall enrollment, application materials are due in the Department of Applied Biological Sciences and the Graduate College by March 15.

For spring enrollment, application materials are due in the Department of Applied Biological Sciences and the Graduate College by Oct. 15.

**Selection Procedures and Notifications**
Department faculty evaluate the applications and supporting materials and recommend to the Graduate College whether the applicant should be granted regular or provisional admission or if admission should be denied. If admission is provisional, the Graduate College, in its letter of admission, specifies the provisions that need to be met to gain regular status. The school informs successful applicants of the procedures for enrollment.

Contact:
Department of Applied Biological Sciences
http://www.poly.asu.edu/saas/appliedbiologicalsciences/index.html
appliedbiologicalscience@asu.edu
WANER 340
480/727-1444

Applied Psychology (Polytechnic Campus) (MS) ECAPSYCHMS
College of Technology and Innovation

Official Degree Awarded: MS Applied Psychology

Program Description: This M.S. program provides a professional degree in human factors psychology for students wishing to pursue careers in this field. Human factors is concerned with assuring the usability of products through design and testing, improving human performance in domains such as sports by understanding the cognitive and perceptual processes involved, improving the effectiveness of instruction and training, team training and consumer psychology. The M.S. program offers specialized training to complement the B.S. in applied psychology at the Polytechnic campus.

Program Requirement: This M.S. requires the completion of 30 credit hours with grades of “B” (3.00) or higher. Students have the option of doing a thesis or an applied project to develop and demonstrate professional knowledge and skills. Students who plan to go on to a doctoral program are encouraged to complete a thesis. Work on the thesis will continue for at least a calendar year under faculty supervision. The first three credits will be devoted to developing an idea and preparing a proposal for approval by a faculty committee. The next three credits will allow for preparing the details of research design and data collection for the thesis (materials, computer programs, experimental text beds, questionnaires, etc.). The final six credits will be devoted to collecting and analyzing data and writing and revising the thesis under the direction of the advisor.

Students will defend the thesis in an oral examination. Students selecting the applied project option will, under the guidance of an advisor, allocate the 12 credit hours to a combination of research, practicum, project activities and report writing appropriate to the goals of the student and the program and the availability of practicum or internship opportunities. In all cases, the project will culminate in a substantial written report followed by a comprehensive oral examination covering the project and other materials from required courses.
**Admission Requirements:** Applicants must submit the Graduate College online application.

Admission requirements include:

1. A bachelor's degree from a recognized educational institution (minimum 3.00 GPA).
2. GRE scores on the verbal and quantitative tests.
3. Three letters of recommendation.
4. A personal statement including background, interests, qualifications and goals.
5. Test of English as a Foreign Language (TOEFL) scores for applicants who are not native English speakers.

**Contact:**
Faculty of Applied Psychology
http://www.poly.asu.edu/saas/appliedpsych/masters/
SAAS@asu.edu
SANCA 150
480/727-1177

**Aviation Mgmt/Human Factors (MSTech) TSHFMSTECH**
College of Technology and Innovation

**Official Degree Awarded:** MSTech Technology (Aviation Management and Human Factors)

**Program Description:** The M.S.Tech. program offers a concentration in aviation management and human factors in the Department of Aeronautical Management Technology within the College of Technology and Applied Sciences. The program focus is on preparing graduates for a career in the aviation industry or as the foundation for further advanced study. Courses are offered at the Polytechnic campus, with some courses offered online. Graduates of this program are provided with technical and professional skills for use in leadership positions in industry and education. The program is designed for flexibility, permitting the student to select a combination of courses in a technical area and supporting area to meet individual goals.

**Program Requirement:** The following are the core requirements for meeting the department’s goal to provide an in-depth research and statistics background early in the program as a foundation for the student’s thesis or applied project. The comprehensive elective curriculum design will offer courses that reflect current and applied topics.

**Core Requirements**
Twelve credit hours are required for thesis option, and nine credit hours for the applied project option.

AMT 593 Applied Project (3) or AMT 599 Thesis (6)
ITM 549 Research Techniques and Applications or equivalent
PSY 530 Statistics or equivalent

Students have a choice of selecting a thesis option (12 credit hours of core courses plus 21 credit hours of selected course work) or an applied project option (nine credit hours of core courses plus 24 credit hours of selected course work). The detailed design of the graduate student's total program requirements (33 credit hours) with the selection of the required courses will be the responsibility of the student's supervisory committee chair and committee members.

The defining guideline for the department will be to match the student's specific career goals and objectives, as well as a balanced curriculum that can be achieved in a reasonable time and in accordance with a known course-offering schedule. The flexibility of customizing the specific curriculum, which will involve the student taking almost one-half of the total courses, will not be at the discretion of the student, but rather at the discretion of the supervisory committee who will ensure a well-structured program of study with represented courses from across the curriculum.

Additional Requirements

Twenty-one credit hours are required for the thesis option, and 24 credit hours for the applied project option.

AMT 520 Airline Pricing and Yield Management
AMT 521 Air Transportation Regulations
AMT 522 Aviation Law
AMT 523 Intermodal Transportation Management (former Aviation Systems Management)
AMT 524 Airport Management Operations
AMT 525 Airport Planning and Design
AMT 526 Aviation Labor Relations
AMT 527 Airline Management Strategies
AMT 528 International Aviation
AMT 529 Fixed-Base Operations Management
AMT 532 Managing Diversity in Aviation
AMT 541 Aviation Physiology
AMT 542 Human Factors in Automation
AMT 545 Human Factors in Aviation
AMT 546 Crew Resource Management/LOFT
AMT 549 Applied Human Factors Research
All master’s courses will be 500-level courses. A single course exception (400-level course) may be authorized with the consensus of the supervisory committee.

Admission Requirements: Admission to the M.S.Tech. program requires the completion of all general admission requirements and procedures set forth by the Graduate College. The College of Technology and Innovation requires an appropriate bachelor’s degree from an accredited college or university, with a minimum of 30 credit hours in technology or equivalent and 16 credit hours of physical science and mathematics appropriate to the program pursued. The specific requirements vary within each department. To be considered for admission, a minimum 3.00 GPA is required.

Admission to the graduate degree program presupposes an adequate technical preparation in a selected technology at the undergraduate level. The applicant’s past work and professional experience are also evaluated and taken into consideration when determining admission classification. Admission into the M.S.Tech. program is based on a number of factors. These include, but are not limited to:

- Undergraduate GPA.
- Test of English as a Foreign Language (TOEFL) score for applicants whose native language is not English.
- References from individuals qualified to judge academic potential.
- Statement of purpose.
- Résumé.
- Likelihood for success.
- Potential for successful placement.
- Number of students currently enrolled in the program.

Contact:
Department of Technology Management
http://technology.asu.edu/aviation
aerotech@asu.edu
SIM 201
480/727-1021

Computing Studies - Polytechnic Campus (MCST) TSCompmcst
College of Technology and Innovation

Official Degree Awarded: MCSt Computing Studies

Program Description: The faculty of the Department of Engineering offers the M.C.S.T. graduate program. This program prepares students with the technical and professional knowledge necessary for career advancement and positions of leadership in computing through challenging problem-based, laboratory-rich course work and an applied research component. Graduate students study in a variety of areas, including distributed and Web-based applications, embedded systems, software systems, visualization and operating systems. Graduates of the M.C.S.T.
program may pursue advanced research degrees in the computing discipline, procure employment in one of the high growth and dynamic computing application areas or pursue careers in allied fields by leveraging computing interests in areas such as engineering, biology or business. In addition to academic credentials, departmental faculty have extensive industry experience.

Program Requirement: The program of study must contain a minimum of 33 credit hours of approved graduate-level course work. At least 18 of these credit hours must be 500-level courses (excluding CST 598 ST: Special Topics courses). A maximum of six credit hours may be taken at the 400-level. In keeping with the learning objectives of the Polytechnic campus, students must complete three credit hours of CST 584 Supervised Internship or three credit hours of CST 590 Reading and Conference to fulfill the degree requirements. Students must complete at least 12 credit hours in a primary area of specialization that is also used as the technical area for the research component. To promote breadth, M.C.S.T. students must take a total of nine credit hours in at least two additional specialization areas distinct from the primary specialization area. Areas of specialization are:

- Distributed and web-based applications.
- Embedded systems.
- Software systems and visualization.
- Operating systems and networks.

Thesis Option (33 credit hours)

Specialization (12)
Supporting area (9)
Research methods courses (12):

CST 500 RM: Research/Writing (2)
CST 584 Internship or CST 590 Reading and Conference (3)
CST 591 Seminar (1)
CST 599 Thesis (6)

Nonthesis Option (33 credit hours)

Specialization (15)
Supporting area (9)
Research methods courses (9):

CST 500 RM: Research/Writing (2)
CST 584 Internship or CST 590 Research and Conference (3)
CST 591 Seminar (1)
CST 593 Applied Project (3)

All M.C.S.T. students must completed a combined three credit hours in CST 500 Seminar and CST 591 Research/Writing.
Admission Requirements: Applicants are expected to satisfy all requirements for admission to the Graduate College with high success in completing a bachelor's degree in computing. Excellent applicants with partial computing background may be admitted with undergraduate computing deficiencies that must be completed early in the graduate program. Applicants must submit scores for the GRE, including verbal, quantitative and analytical. The subject test in computer science is not required. International applicants must submit results of the Test of English as a Foreign Language (TOEFL). Applicants for fall semester admission should submit all materials to the Graduate College by March 1, and applicants for spring semester should submit all admission materials by Oct. 1.

Contact:
Department of Engineering
http://technology.asu.edu/engineering/
egr@asu.edu
SANTN 230
480/727-2727

Electronics Engineering Technology (MSTech) TSSYMSTECH
College of Technology and Innovation

Official Degree Awarded: MSTech Technology (Electronic Systems Engineering Technology)

Program Description: The M.S.Tech. program promotes greater depth of understanding in electronics and its applications at a system level. A minimum of 33 credit hours of graduate credit is required for degree completion. The program is designed for sufficient flexibility to permit the student to select a combination of courses in a technical concentration and supporting area to meet individual career goals. The required research provides students with an opportunity to develop special research and application skills directly related to individual needs and objectives. The Department of Engineering Technology provides students with a concentration in electronic systems engineering technology.

Program Requirement: The degree requirements for the M.S.Tech. with a concentration in electronic systems engineering technology offered by the Department of Engineering Technology include:

Thesis Option (33 credit hours)

Concentration (15-16)
Supporting Area (8-9)
Research Methods Courses:

EET 500 Research/Writing (2)
EET 591 Graduate Seminar (1)
EET 599 Thesis (6)
At least nine hours of 500-level course work must be included in the technical concentration. Students may take up to six credit hours of 400-level course work to broaden their technical knowledge within the concentration or supporting area. Students are required to complete six hours of EET 599 Thesis, write a thesis and make an oral defense.

**Nonthesis Option** (33 credit hours)

- Concentration (15-18)
- Supporting Area (9-12)
- Research Methods Courses:
  - EET 500 Research/Writing (2)
  - EET 591 Graduate Seminar (1)
  - EET 593 Applied Project (3)

At least nine hours of 500-level course work must be included in the technical concentration. A maximum of three credit hours of EET 593 Applied Project may be applied toward the 20 credit-hour, 500-level minimum. Additional background deficiency hours may be required. All course work outside the Department of Engineering Technology must be preapproved by the department chair.

A final oral comprehensive examination is required. Any candidate who fails in that examination may, upon recommendation of the committee and approval of the dean of the Graduate College, be granted a second examination. The second examination is final. A final copy of the applied project report or thesis must be submitted before the candidate is eligible for this examination.

**Program of Study**

Course work: the student selects a concentration and supporting area, as well as a subset of courses from each area. Specifically, five to six courses are selected from the concentration area, and three or four are selected from the supporting area. Early in the program, the student identifies a major advisor, who is a faculty member of the department interested in the selected area of concentration. The student works with the major advisor to develop the program of study and subsequently to carry out the research component of the program.

Research: each student, as a part of the degree program, is required to complete an applied project or thesis within the student’s area of emphasis. The applied project includes a written report.

Research Activity: research activities in the Department of Engineering Technology include systems, circuit applications and digital design. Research in microelectronics areas including device processing/fabrication, device packaging and reliability testing are explored utilizing the microelectronics laboratory clean-room facilities.
Electronic systems and alternative energy technologies are also topics of research by department faculty and graduate students. M.S.Tech. candidates will find a broad range of research that can lead to an applied project or thesis.

Admission Requirements: Prerequisites

Applicants are required to have earned a bachelor’s degree that includes a minimum of 30 credit hours or equivalent in a technology area including course work applicable to the concentration being sought, and a minimum of 16 credit hours of mathematics and science. Depending upon the background of the student, the following application materials are necessary:

1. Graduate College online application.
2. Application fee.
3. Official transcripts from every college and university previously attended.
4. Test score reports. The Test of English as a Foreign Language (TOEFL) report may be necessary for international students. The GRE is not required by the Department of Engineering Technology.
5. Domicile affidavit for applicants claiming Arizona residency.
6. Financial guarantee form (required for international students). Visit the Graduate College Web site for more information. Admission to the Graduate College and the Department of Engineering Technology requires excellent attainments in prior university course work and academic experience equivalent to the bachelor’s degree in the area of proposed study.

Admission is based upon:

1. Academic attainments in undergraduate course work, including junior/senior GPA, overall undergraduate GPA and GPA in major courses.
2. Academic preparation in the chosen field of study for the master’s degree.
3. Academic attainments in post-baccalaureate course work, if appropriate.
4. Any other supporting information provided by the applicant, such as educational and career objectives, explanation of background or letters of reference.

Contact:
Department of Engineering Technology
http://technology.asu.edu/engrtech
engrtech@asu.edu
TECH 101
480/727-1976

Environmental Tech Mgmt (Polytechnic Campus) (MSTech) TSMGMSTECH
College of Technology and Innovation

Official Degree Awarded: MSTech Technology (Environmental Technology Management)
Program Description: The M.S.Tech. with a concentration in environmental technology management provides three areas of study:

- Environmental management.
- Emergency management.
- International environmental management.

Classes are scheduled to minimize disruption of work schedules by meeting six times a semester on alternating Fridays and Saturdays. A Web-based distance learning format is also available.

Program Requirement: The M.S.Tech. with a concentration in environmental technology management is a 33 credit hour program. A thesis or an applied project is required for this degree program. Concentration area course work includes 12 credit hours of core classes and 15 credit hours of approved electives.

Supporting course work includes the following areas of study:

- Air pollution.
- Comprehensive emergency management.
- Environmental chemistry.
- Environmental risk assessment.
- International environmental law.
- International environmental management.
- Principles of hazardous materials/waste.
- Soils and groundwater contamination.
- Sustainability and sustainable development.
- Terrorism, weapons of mass destruction and current issues.

Admission Requirements: Admission to the M.S.Tech. program requires the completion of all general admissions requirements and procedures set forth by the Graduate College. The College of Technology and Innovation also requires an appropriate bachelor’s degree from an accredited college or university, with a minimum of 30 credit hours in technology or its equivalent and 16 credit hours of science and mathematics appropriate to the program pursued.

Admission to the graduate degree program presupposes an adequate technical preparation in a selected technology at the undergraduate level. Deficiencies for admission to the graduate degree program, if any, are specified at the time of admission. The applicant’s past work and professional experience are also evaluated and taken into consideration when determining admission classification. To be considered for regular admission, a minimum 3.00 GPA is required. Applicants should submit a letter of application and a current résumé to the Department of Technology Management for review by the graduate faculty in the technical concentration.
Global Technology and Development (MSTech) TSGTMSTEC
College of Technology and Innovation

**Official Degree Awarded:** MSTech Technology (Global Technology and Development)

**Program Description:** The M.S.Tech. program with a concentration in global technology and development is designed to integrate diverse areas of technical expertise and various academic disciplines with an awareness and understanding of how technology, processes of globalization and society influence one another.

The global technology and development (GTD) concentration provides students with a comprehensive understanding of systems of technology, how they interface, and their role in global economic, political and social development and change. The GTD concentration integrates the study of economic, social and political development with technology course work to explore issues critical to 21st-century globalization and the role and impact of technological innovations on societies around the world. Students completing the GTD concentration gain knowledge and skills to become technology interpreters and are prepared for careers in technology-related public policy, government service, international development and international management.

**Program Requirement:** A minimum of 33 credit hours are required for the M.S.Tech. with a concentration in global technology and development. Thesis and nonthesis options are available. At least 24 credit hours must be 500-level courses. A maximum of nine credit hours of course work at the 400 level can be included in the program of study.

**Admission Requirements:** Students interested in applying to this degree program must submit the Graduate College online application. Students applying to the global technology and development concentration must have:

1. An appropriate bachelor's degree from an accredited college or university.
2. A combination of course work in the social sciences and technology/science.
3. Some element of international or intercultural knowledge, which could be fluency in a foreign language, academic course work or having resided in another country.

**Contact:**
Department of Technology Management
http://technology.poly.asu.edu/dtm/
TECH 102
480/727-1533
Graphic Information Technology (MSTech) TSGIMSTECH
College of Technology and Innovation

Official Degree Awarded: MSTech Technology (Graphic Information Technology)

Program Description: The M.S.Tech. with a concentration in graphic information technology provides students with the opportunity to study within the various areas of graphics. The areas include traditional and digital printing and publishing, multimedia, 3-D modeling, Web development, digital photography and animation. The courses offered in this degree program provide students with a working knowledge of the different facets of the graphic information industry with a focus on graphic communication. This is not a traditional information technology, computer science, computer information systems or information systems management program. The degree program is offered either as an on-campus or Web-based distance learning format.

Program Requirement: All candidates for the M.S.Tech. program are required to complete a minimum of 33 credit hours of graduate course work. Of these, a minimum of 18 credit hours must be 500-level courses and part of the approved program. Additional courses may be assigned by the faculty supervisory committee depending on the background of the candidate. The minimum degree requirements are as follows:

Thesis Option (33 credit hours)

Technical area of emphasis (18)
Supporting area (9)
Thesis (6)

Applied Project Option (33 credit hours)

Technical area of emphasis (18)
Supporting area (9)
Research course (3)
Applied Research Project (3)

A maximum of nine credit hours of appropriate graduate course work completed before admission may be included in the program of study for the degree program. Most graduate degree students in this program elect to do an applied project rather than a thesis. The applied project generally allows the student to thoroughly explore a graphic problem and demonstrate knowledge of the problem, solutions for the problem and suggestions for further explanation of the problem.

Admission Requirements: Admission to the M.S.Tech. program requires the completion of all general admissions requirements and procedures set forth by the Graduate College. The College of Technology and Innovation also requires an appropriate bachelor’s degree from an accredited college or university, with a minimum of 30 credit hours in technology or its equivalent and 16 credit hours of
science and mathematics appropriate to the program pursued.

Admission to the graduate degree program presupposes an adequate technical preparation in a selected technology at the undergraduate level. Deficiencies for admission to the graduate degree program, if any, are specified at the time of admission. The applicant's past work and professional experience are also evaluated and taken into consideration when determining admission classification. To be considered for regular admission, a minimum 3.00 GPA is required. Applicants should submit a letter of application and a current résumé to the Department of Technology Management for review by the graduate faculty in the technical concentration.

Contact:
Department of Technology Management
http://technology.asu.edu/git
TECH BLDG, RM 102
480/727-1781

Integrated Electronic Systems (MSTECH) TSESMSTECH
College of Technology and Innovation

Official Degree Awarded: MSTech Technology (Integrated Electronic Systems)

Program Description: The M.S.Tech. with a concentration in integrated electronic systems covers the processes and technology used to develop, design, manufacture and exploit integrated electronic functions on silicon, in packages and on boards. This degree program is designed for sufficient flexibility to permit the student to select a combination of courses in a technical concentration, integrated electronic systems and supporting area to meet individual career goals. The program provides hands-on laboratory experience in integrated circuit device fabrication and manufacturing in a setting that emulates the real industry. The required research provides students with an opportunity to develop special research and application skills directly related to individual needs and objectives in the field of microelectronics.

Research activity

Research activities in the Department of Engineering Technology, include circuit applications and digital design. Research is conducted in the areas of microelectronics/integrated electronic systems, including design, device processing/fabrication, silicon device in packages and on boards and exploit integrated electronics functions in various applications. The research activities in the alternative energy technologies field, include exploration of the demands of energy resources in the new economy and use of energy sources such as solar, wind, ocean, geothermal and biomass. M.S.Tech. candidates will find a broad range of research topics that can lead to an applied project or thesis.
**Program Requirement:** **Thesis Option**  (33 credit hours)

- Concentration (15-16)
- Supporting Area (8-9)

Research Methods Courses:

- EET 500 Research/Writing (2)
- EET 591 Graduate Seminar (1)
- EET 599 Thesis (6)

A minimum of 20 credit hours must be 500-level courses. At least nine hours of 500-level course work must be included in the technical concentration. Students may take up to six credit hours of 400-level course work to broaden their technical knowledge within the concentration or supporting area. Students are required to complete six hours of EET 599 Thesis, write a thesis and make an oral defense. All course work applied toward the minimum 33 credit hour total must be at the 400 and 500 level.

**Nonthesis Option** (33 credit hours)

- Concentration (15-18)
- Supporting Area (9-12)

Research Methods Courses:

- EET 500 Research/Writing (2)
- EET 591 Graduate Seminar (1)
- EET 593 Project (3)

**Admission Requirements:** **Prerequisites**

Applicants are required to have earned a bachelor's degree that includes a minimum of 30 credit hours or equivalent in a technology area including course work applicable to the concentration being sought, and a minimum of 16 credit hours of mathematics and science. Depending upon the background of the student, the following application materials are necessary:

1. Graduate College online application.
2. Application fee.
3. Official transcripts from every college and university previously attended.
4. Test score reports. The Test of English as a Foreign Language (TOEFL) report may be necessary for international students. The GRE is not required by the Department of Engineering Technology.
5. Domicile affidavit for applicants claiming Arizona residency.
6. Financial guarantee form (required for international students). Visit the Graduate College Web site for more information.

**Contact:**
Department of Engineering Technology
Official Degree Awarded: MSTech Technology (Management of Technology)

Program Description: The purpose of the M.S.Tech. with a concentration in management of technology is to prepare graduates of the program for leadership roles in technology-driven organizations, whether private or public, and to improve the leadership skills of technically proficient professionals. Students are prepared to successfully transition into leadership positions in their field of expertise and to move into a general leadership role outside their area of technical expertise as their career grows.

This degree program is open to individuals with a technical undergraduate degree who wish to develop their leadership/management skills to complement their technical expertise. The course schedule is tailored to the needs of the student while ensuring that basic leadership and management skills are acquired.

Program Requirement: For the M.S.Tech., a minimum of 33 credit hours are required and it is expected that graduates of the program possess skills in research and the ability to apply these research skills in practice. To achieve this goal each student is required to complete OMT 549 Research Techniques and either TMC 593 Applied Project or TMC 599 Thesis.

Additionally, each student is required to select four courses (12 credit hours) from the following list:

- OMT 503 Marketing Management
- OMT 504 Law and Ethics for Technical Professionals
- OMT 540 International Management
- OMT 548 Statistical Methods for Research
- OMT 550 Industrial Training and Development
- OMT 552 Global Management Philosophies
- OMT 592 Research (1-3)
- TMC 584 Internship (1-3)
- OMT 598 ST: Forecasting and Evolution of Technology
- OMT 598 ST: Simulation of Operations
- OMT 598 ST: Advanced Quality Topics
- OMT 598 ST: Advanced Operations Topics

Graduate courses from other majors may be selected with approval from the student’s graduate advisory committee. These additional courses are selected to support the student’s individual career goals and perceived needs.
thesis option, courses are chosen to support the student’s research topic and research methods. To ensure that all courses taken will fit into the plan of study, all students are expected to discuss their tentative plan with their program advisor prior to registering for their first class, and must have an approved plan of study on file by the completion of nine credit hours toward the degree. Students without a statistics course at the undergraduate level will be required to complete an appropriate course during their first semester in the program. This course will be in addition to the other requirements for the degree. Additional courses may be required to fulfill deficiencies, based on a review of the applicant’s transcripts. Please contact the department for more information.

Admission Requirements: All applicants must submit the Graduate College online application and the admission requirements include:

1. Bachelor’s degree or the equivalent from a regionally accredited institution.
2. Equivalent to a “B” (3.00) average for the undergraduate program of study in the last 60 credit hours or 90 quarter hours of undergraduate course work. If an applicant does not meet the minimum GPA, their application may still be considered although the degree program office may require additional supporting documents.
3. International applicants must meet the previous qualifications, plus have a valid minimum Test of English as a Foreign Language (TOEFL) score of 550 on the paper test or a score of 213 on the computer-based test.

The College of Science and Technology admission requirements include:

1. An appropriate baccalaureate degree from an accredited college or university, with a minimum of 30 credit hours in technology or its equivalent, and 16 credit hours of science and mathematics appropriate to the program pursued.
2. A minimum 3.00 GPA is required for regular admission.
3. A letter of application.
4. A current résumé. Industrial experience beyond completion of a baccalaureate degree is strongly recommended. Graduate work presupposes an adequate technical preparation in a selected technology at the undergraduate level. Deficiencies for admission to the graduate program, if any, are specified at the time of admission. The applicant’s past work and professional experience are also evaluated and taken into consideration when determining admission classification.

Contact:
Department of Technology Management
http://technology.asu.edu/omt
TECH BLDG, RM 102
480/727-1781
Manufacturing Engineering Technology (MSTech) TSMFMSTECH

College of Technology and Innovation

Official Degree Awarded: MSTech Technology (Manufacturing Engineering Technology)

Program Description: At the graduate level, the Department of Engineering Technology offers a M.S.Tech. with a concentration in manufacturing engineering technology. M.S.Tech. students can select a technical concentration of manufacturing processes, management or computerization.

This flexible program permits the student to develop a program of study, with faculty approval, to meet individual career goals. While the program is not an evening program, many courses are offered either during the late afternoon or early evening.

The program presupposes that the student has a sound technical undergraduate degree, but not necessarily in manufacturing engineering. The degree concentration is designed to provide graduates with technical and professional skills that will facilitate preparation for, and advancement in, leadership positions in industry, education, government and military. Laboratories and classrooms are well equipped, and the faculty members teaching the classes have relevant teaching, research, industry and training experience and background.

Program Requirement: There are two basic options in the M.S.Tech. program with a concentration in manufacturing engineering technology: thesis and applied project. Both options require the completion of 33 credit hours. All course work applied toward the minimum 33 credit hour total must be at the 400 level or higher with a grade of “B” (3.00) or higher. An oral defense of the written applied or research project (thesis) is required as the final examination in either option. This defense is typically done during the last semester of study. All course work outside the Department of Engineering Technology must be preapproved and on the program of study.

Thesis Option

In the thesis option, a minimum of 24 credit hours must be 500-level courses, allowing students to take up to six credit hours of 400-level course work to broaden their technical knowledge within the technical concentration or a supporting area. The course work may be a combination of manufacturing, mechanical or aeronautical engineering technology courses or a limited number from outside the department. Students are required to complete six credit hours of MET 599 Thesis, write a thesis and present an oral defense.

Thesis Option  (33 credit hours)
Technical concentration area (18)
Supporting area (6)
Research methods courses:

MET 591 Research Seminar (1) and a research writing course (2)
MET 599 Thesis (6)

**Applied Project Option**

In the applied project option, a minimum of 24 credit hours must be 500-level courses, allowing students to take up to six credit hours of 400-level course work to broaden their technical knowledge within the technical concentration or a supporting area. The course work may be a combination of manufacturing, mechanical or aeronautical engineering technology courses or a limited number from outside the department. The applied project requires a supporting report; the project and report are defended in a final oral examination.

**Applied Project Option** (33 credit hours)

Technical concentration area (18)
Supporting area (9)
Research methods courses:

MET 591 Research Seminar (1) and a research writing course (2)
MET 593 Applied Project (3)

**Admission Requirements:** Applicants are expected to satisfy all requirements for admission to the Graduate College. In addition to the materials required by the Graduate College, applicants are required to provide a résumé and statement of purpose to the department.

Recommendation letters are not required but up to two letters will be considered. Letters of recommendation may be helpful during the admission process if the candidate’s qualifications are atypical or the letters provide information not typically addressed in the required admission materials listed above. Letters of recommendation should be sent directly to the department. For more information, please contact the department or the Graduate College.

Industrial experience beyond completion of a bachelor’s degree is recommended. Applicants with deficiencies in critical undergraduate technical subjects or those not meeting program prerequisites may be required to complete them before being admitted to the degree program.

Applicants who hold a bachelor’s degree from a regionally accredited U.S. institution are not required to take the GRE. Applicants holding a bachelor’s degree from outside the U.S. should take the GRE. If English is not the applicant’s native language, the Test of English as a Foreign Language (TOEFL) examination is required.
Contact:
Department of Engineering Technology
http://technology.asu.edu/engrtech
engrtech@asu.edu
SIM 295
480/727-1584

Mechanical Engineering Technology (MSTech) TSMHMSTECH
College of Technology and Innovation

Official Degree Awarded: MSTech Technology (Mechanical Engineering Technology)

Program Description: At the graduate level, the Department of Engineering Technology offers a M.S.Tech. with a concentration in mechanical engineering technology.

This flexible degree program permits the student to develop a program of study, with faculty approval, to meet individual career goals. While the program is not an evening program, many courses are offered either during the late afternoon or early evening.

The program presupposes that the student has a sound technical undergraduate degree, but not necessarily in mechanical engineering. The degree concentration is designed to provide graduates with technical and professional skills that will facilitate preparation for, and advancement in, leadership positions in industry, education, government and military. Laboratories and classrooms are well equipped, and the faculty members teaching the classes have relevant teaching, research, industry and training experience and background.

Research Activity:

Department faculty are engaged in both theoretical and applied research projects, involving undergraduate and graduate students in mechanical-related topic areas. Graduate students employed in local industry are encouraged to develop research topics that address problems of interest to their employers.

Current research interests of the faculty include modeling and simulation, “smart” materials, composite materials, hydrogen power and fuel cells and other alternative energy sources, optimization of turbine engines, machinability and manufacturing processes, manufacturing and program management, manufacturing cost economics, automation and design and mechanics education.

Applied research projects are carried out in a number of well-equipped laboratories and facilities:

- Automation laboratory.
- Computer numerical control (CNC) machining center laboratory.
• Composite materials laboratory.
• Computer-aided design and computer-aided manufacturing laboratory.
• Energy conversion and combustion laboratory.
• Materials inspection and metrology laboratory.
• Metallurgy/materials testing laboratory.
• Welding and casting laboratory. For more information on research areas and laboratories, please access the Department of Engineering Technology Web site.

Program Requirement: There are two basic options in the M.S.Tech. degree program with a concentration in mechanical engineering technology: thesis and applied project. Both options require the completion of 33 credit hours. All course work applied toward the minimum 33 credit hour total must be at the 400 level or higher with a grade of “B” (3.00) or higher. An oral defense of the written applied or research project (thesis) is required as the final examination in either option. This defense is typically done during the last semester of study. All course work outside the Department of Engineering Technology must be pre-approved and on the program of study.

Thesis Option

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Thesis Option (33 credit hours)

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Supporting area (6)
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project and report are defended in a final oral examination.

**Applied Project Option**  (33 credit hours)

Technical concentration area (18)
Supporting area (9)
Research methods courses:

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