College of Health Solutions
Arizona State University

# Biostatistics, MS

Student Handbook

2024-2025 Catalog

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# ASU Charter

ASU is a comprehensive public research university, measured not by whom we exclude, but rather by whom we include and how they succeed; advancing research and discovery of public value; and assuming fundamental responsibility for the economic, social, cultural and overall health of the communities it serves.

## Inclusive Excellence at the College of Health Solutions

The College of Health Solutions has a mission to improve the mental and physical health of our larger and immediate communities by better understanding the challenges that individuals and populations face, while striving to be part of the solution. The college is committed to the idea that every member of our society should have the opportunity for good health and wellness throughout their lifespans. In an effort to actualize this ideal, we embrace and support inclusive excellence in everything we do, including teaching, research, service, and clinical practice.

For more information on our commitments to inclusive excellence, visit: https://chs.asu.edu/why-chs/inclusive-excellence.

# Contents

# Introduction

## Welcome

Welcome to the Master of Science in biostatistics degree program at Arizona State University!

We are excited that you have selected the Biostatistics, MS and the graduate faculty and support staff are committed to your success in this program. As graduate students, you will have the opportunity to interact with faculty from a variety of backgrounds in biostatistics who are committed to provide biostatistical data analysis knowledge to support better health outcomes in patients, clients, and the community. The intellectual diversity and practical experience of our faculty ensures graduate students will be given a variety of opportunities to expand their knowledge of biostatistics and have a positive impact on their skills on data analysi.

This handbook supports your success in the program in several ways. It provides shared expectations for both faculty and students. It also outlines the standards and policies set by the College of Health Solutions and the Graduate College. As a graduate student, it is your responsibility to read this handbook and use it as a reference as you navigate through the degree program. Please contact us with questions if any of the policies or procedures seem unclear.

As program director of the Master of Science in biostatistics program, it is a privilege to support you on your educational journey. I speak for the entire graduate faculty in reiterating our commitment to your success and we look forward to working with you to complete your graduate degree in Biostatistics.

Zhongxue Chen, PhD

Professor and MS Biostatistics Program Director

## Vision and mission

The Master of Science in Biostatistics program will provide students an education and training in biostatistical methods for study design, data analysis, and statistical reporting. We do this by making this degree accessible to students with various academic backgrounds through a rigorous set of core classes emphasizing training in data management, statistical reasoning, the interpretation of numeric data for scientific inference in studies in medicine and public health, and the ability to collaborate and communicate effectively with scientists and other public health researchers across disciplines. The design of the MS Biostatistics program aligns with and supports the ASU charter through the advancement of innovative biostatistical research intended to improve public health, as well as the promotion of academic excellence and student engagement in interdisciplinary research.

## Program overview

The Master of Science in Biostatistics provides training in applied biostatistical methodology and its applications to solve real-life problems in the health-related sciences. Comprehensive coursework teaches statistical theory, data analysis, research methods, and their applications in the field of public health and biomedical sciences. Students gain a solid foundation in statistical methods, study design, and data analysis techniques relevant to health-related research as well as exposure to popular

statistical software, such as R, SAS, Stata and SPSS, for biostatistical analysis. While in the program, students have the opportunity to engage in real-world research and projects in collaboration with facultyand industry partners. The program provides a collaborative learning environment that encourages students to work together under the supervision of biostatistics faculty on projects, share ideas, and engage in group discussions. This experience will deepen students' understanding of biostatistical applications and methodologies as well as gain practical skills and networking opportunities. Students also have direct access to experienced and knowledgeable faculty in the biostatistics field, who will provide valuable mentorship, guidance, and support throughout the program on career development and job search strategies to prepare students for their future careers, such as biostatistician, data scientist, data analyst, and researcher, in academia and industry in public health.

## Program contacts

Program director: Zhongxue Chen, zhongxue.chen@asu.edu

Graduate support coordinator: Jill Atwood, chsgrad@asu.edu

Program faculty: see Appendix A

# Admission

Admission to the Biostatistics, MS is available for Fall and Spring terms. Deadlines to apply can be found here. Applications will be reviewed by the admissions committee only once all materials have been received. Application status can be monitored in MyASU. Official admission decisions will be emailed to the student.

**Quick Facts:**

- Location: Downtown Phoenix campus
- Start terms: Fall, Spring
- Time to completion: 15 months (full-time)

## Graduate admission requirements

ASU maintains minimum standards for consideration for admission to graduate programs. The program may establish requirements in excess of those established by the university.

- An earned bachelor's degree or higher from a regionally accredited institution in the U.S., or the equivalent of a U.S. bachelor's degree from an international institution officially recognized by that country.
- A minimum grade point average of 3.00 (scale is 4.00 = "A") in the last 60 semester hours or 90 quarter hours of undergraduate coursework is required to be considered for admission to an ASU graduate degree program.
- International applicants must provide proof of English proficiency. For more information, visit the admissions website.

## Academic program requirements

In addition to the graduate admission requirements, the program requires the following as part of the application:

**Undergraduate or graduate degrees** – bachelor's or master's degree from a regionally accredited institution; Prior degrees in biomedical informatics, demography, mathematics, public or population health, social sciences, or statistics are preferred; Applicants who have earned degrees in other unrelated fields with appropriate academic backgrounds also will be considered.

**Prerequisite coursework** – students admitted to the program must have basic competencies in statistics (e.g. HCD 300, STP 226, ECN 221, or PSY 230), linear algebra (e.g. MAT 242, MAT 342, or MAT 343), and calculus (e.g. MAT 210, MAT 251, or MAT 270) completed *prior* to matriculation.

**Statement of purpose** – one to two pages; indicate interest in the program, knowledge of the field, and career plans; Applicants are encouraged to identify potential faculty advisors and areas of research.

**References** – Contact information for two references is required. References will be contacted via email to submit a letter of recommendation. Letters of recommendation are preferably written by instructors, research mentors or supervisors who can speak to the applicant's aptitude for research and graduate-level coursework.

**Resume or curriculum vitae** – include relevant personal, professional, educational and community activities (one to two pages).

## Provisional acceptance guidelines

In some instances, a student may be admitted provisionally and/or with a deficiency. Students should refer to the official admission letter sent by the Graduate College via MyASU to determine if they have been admitted with a provision and/or deficiency.

A provisional admission requires a student to maintain a 3.0 or higher GPA within a specified timeframe. If the 3.0 is not achieved by the end of the timeframe specified on the official admission letter, the student will be automatically dismissed from the degree program.

A deficiency requires a student to fulfill a competency area within a given timeframe. The academic program will monitor students with deficiencies. If a deficiency is not completed within the timeframe indicated on the official admission letter, the student may be recommended for dismissal from the academic program.

## Pre-admission credit policy

Credit hours completed at ASU or at another regionally accredited U.S. institution or international institution officially recognized by that country, before the semester and year of admission to an ASU graduate degree program, are considered pre-admission credits. With the approval of the academic unit and the Graduate College, students may include a maximum of 12 graduate-level credit hours with grades of “B” or better that were not used toward a previous degree. Preadmission credits must have been taken within three years of admission to the ASU degree or certificate program to be accepted. Certain types of graduate credits cannot be transferred to ASU (see the Graduate College Policy Manual). Official transcripts must be sent to Graduate Admission Services from the records office of the institution where the credits were earned.

# Tuition and assistance

## Tuition and fees

Tuition is set by ASU and the Arizona Board of Regents each year. View the general Tuition and Fees Schedule, or calculate a more specific estimate of charges using the ASU Tuition Estimator. Information on residency requirements can be found at Residency for Tuition Purposes.

The Biostatistics, MS has a program fee of $278 per credit (max $2,500 per semester).

## Financial assistance

Financial assistance is available through a variety of sources, including:

- College of Health Solutions scholarships
- Graduate College fellowships
- Traditional financial aid (loans and grants).

For more information and assistance, visit the Financial Aid website.

### Travel assistance

Financial assistance for travel related to conferences, workshops, or training related to a student's graduate program is available through several resources.

- Graduate College travel awards
- Graduate and Professional Student Association travel grants
- College of Health Solutions student conference support

# Curriculum and graduation requirements

## Program requirements

The Biostatistics, MS is comprised of 30 credits, including an applied project.

**Required core (15 credits)**

- BST 601 Biostatistical Theory and Inference (3)
- BST 602 Applied Multi-Level and Longitudinal Data Analysis
- BST 604 Computational Biostatistics
- BST 605 Biostatistics Data Analysis
- BST 606 Applied Clinical Trial Design and Analysis

**Electives (9 credits)**

- [*see elective section*]

**Culminating Experience (6 credits)**

- BST 593 Applied Project (6)

*Note: A minimum grade of B- or better is required in all courses.*

*A maximum of 6 credit hours of 400-level coursework can be included on an iPOS with program approval.*

**Electives**

Students must complete 9 credits of elective coursework. Electives should be selected in consultation with program faculty; see list below for recommended options. Additional courses that align with student interest and goals may be used with approval from the program director.

Recommended elective options include:

- BMI 598 Topic: Embedded Machine Learning
- BMI 598 Topic: Population Health Management and Analytics
- BMI 603 Health Informatics Database and Modeling Applications
- BST 608 Applied Meta-Analysis
- BST 609 Categorical Data Analysis in Health Sciences
- HCD 511 Health Economics and Policy
- HCD 575 Leadership and Professionalism

**Applied project**

The Applied Project is to be completed in the final semester through enrollment in 6 credits of BST 593. The project consists of original work on a specific research or practice problem. The problem is decided upon by the student in consultation with their committee and should align with the student's background and goals after graduation.

Committee

Students are encouraged to begin the process of selecting a faculty mentor during the first semester of their graduate program. When selected early, the faculty mentor can provide support to the student regarding goals and consideration of research in anticipation of the applied project. The faculty mentor is established at the initiative of the student, in consultation with the faculty member, and is approved by the program director. At the latest, the faculty mentor must be identified prior to the student enrolling in BST 593. At the time in which the student is looking for a faculty mentor, the student must ensure they understand the faculty member's availability and that the faculty mentor will be able to support during the terms in which the student will pursue the applied project.

The faculty mentor will serve as the chair for the student's applied project. Additionally, the student in consultation with their faculty mentor must identify two additional individuals to serve as members on the student's applied project committee. The chair must be a faculty member within the Biostatistics program. The other two committee members can be any faculty member within or external to the College of Health Solutions.

### Application to graduate

Students should apply for graduation during the semester of planned graduation and must apply no later than the deadline specified for that term. Students must have an approved iPOS on file before applying for graduation.

## Plan of study

To graduate in a timely manner, students should follow a recommended plan of study. Deviation from a plan of study should be discussed with the graduate support coordinator and program director. Failure to follow a plan of study may result in delayed graduation.

Plan of Study, Fall Start

| Term/ Session | Course | Credits |
|---|---|---|
| Year 1 - Fall | BST 601 Biostatistical Theory and Inference | 3 |
| | BST 602 Applied Multi-Level and Longitudinal Data Analysis | 3 |
| | BST 604 Computational Biostatistics | 3 |
| Year 1 - Spring | BST 605 Biostatistics Data Analysis | 3 |
| | BST 606 Applied Clinical Trial Design and Analysis | 3 |
| | Elective | 3 |
| | Elective | 3 |
| Year 2 - Fall | BST 593 Applied Project | 6 |
| | Elective | 3 |

Plan of Study, Spring Start

| Term/ Session | Course | Credits |
|---|---|---|
| Year 1 - Spring | BST 605 Biostatistics Data Analysis | 3 |
| | Elective | 3 |
| | Elective | 3 |
| Year 2 - Fall | BST 601 Biostatistical Theory and Inference | 3 |
| | BST 602 Applied Multi-Level and Longitudinal Data Analysis | 3 |
| | BST 604 Computational Biostatistics | 3 |
| | Elective | 3 |

| | | |
|---|---|---|
| Year 2 - Spring | BST 593 Applied Project | 6 |
| | BST 606 Applied Clinical Trial Design and Analysis | 3 |

## Interactive plan of study (iPOS)

The Interactive Plan of Study, or iPOS, is an agreement between the student, the academic unit, and the Graduate College. The student must submit their iPOS in the first semester of the program. Students are encouraged to review the iPOS at the end of each semester to ensure the courses listed on the iPOS match the student's transcript and that the courses meet the plan of study course requirements. More information on iPOS can be found here.

**Faculty advisor/chair:** program director

**Change of coursework:** If a change of coursework is needed, the student must update the courses listed in the iPOS and submit a course change for review. This process is required if you projected a course you did not complete, or if you need to change courses listed. The iPOS will be routed electronically to the graduate support coordinator for review and approval, and then for auditing by the Graduate College.

## Specializations and certifications

The College of Health Solutions prepares graduates for excellence upon entering the workplace. Since certification and licensure requirements vary by profession and from state to state, we recommend that you visit the ASU licensure website to determine if your program meets the requirements of individual state licensures or national certifications, as applicable. If you have specific questions, please contact your program director or degree coordinator.

## Satisfactory academic progress

All graduate students are expected to make systematic progress toward completion of their graduate program. This progress includes satisfying the conditions listed below, and achieving the benchmarks and requirements set by the individual graduate programs as well as the Graduate College. If a student fails to satisfy the requirements of their program and/or the benchmarks outlined below, the student may be dismissed from their program based on the academic unit's recommendation to the Graduate College at which time the dean of the Graduate College makes the final determination.

Satisfactory academic progress includes:

1. Maintain a minimum 3.00 for all GPAs.
2. Satisfy all requirements of the graduate program.
3. Satisfy the maximum time limit for graduation for the student's graduate program (six years for masters and certificates, ten years for doctoral)
4. Successfully pass comprehensive exams, qualifying exams, foreign language exams, and the oral defense of the proposal/prospectus for the thesis or dissertation.
5. Successfully complete the culminating experience.
6. Graduate students must remain continuously enrolled in their graduate program. Failing to do so without a Graduate College approved Leave of Absence is considered to be lack of academic progress and may result in the Graduate College withdrawing the student from their program.

### GPA and grades

Graduate students must maintain a minimum 3.00 (scale is 4.00 = “A”) grade point average (GPA) to maintain satisfactory academic progress and to graduate. The minimum 3.00 GPA must be maintained on all GPAs (Plan of Study (iPOS) GPA, Overall Graduate GPA and Cumulative GPA):

1. The iPOS GPA is calculated on all courses that appear on the student’s approved iPOS
2. Cumulative GPA represents all courses completed at ASU during the graduate career.
3. The Overall Graduate GPA is based on all courses numbered 500 or higher that appear on the transcript after admission to a graduate program or graduate non-degree. This includes shared coursework if in an approved accelerated bachelor’s/master’s program.

Transfer credits and some courses taken in the Sandra Day O’Connor College of Law are not calculated in the iPOS GPA or the Graduate GPA. Courses lower than a “C” cannot appear on the iPOS but will be included when calculating the Graduate GPA. Courses with an “I” grade (incomplete) or “X” grade (audit) cannot appear on the iPOS.

University grade definitions and policies can be found here.

The Biostatistics, MS program requires that courses must be completed with a B- or better in order to be included on the iPOS. Students who earn a C+ or lower in a course must repeat the course and earn a B- or better in order to apply the course toward program requirements.

## Incomplete grade requests

An incomplete grade request may be considered by an instructor when a student, who is doing otherwise acceptable work, is unable to complete a course (e.g., final exam or term paper) because of illness or other conditions beyond the student's control. Unfinished work must be completed with the same instructor except under extenuating circumstances. The completion date is determined by the instructor but may not exceed one calendar year from the date the mark of "I" is recorded. Once the work is completed, faculty must request a change on the grade roster to post the grade. If a student does not complete the missing coursework by the date that is agreed upon on the incomplete request form, the instructor may change the grade to what was earned based on the work completed in the class. If the coursework is not completed after a calendar year, the incomplete becomes permanent. Repeating a class in which an incomplete is awarded will not replace the "I" on the student's transcript. Students must complete the incomplete request form and submit it to their instructor for review and processing.

## Academic probation and dismissal

Failure to maintain a minimum 3.0 GPA or failure to satisfactorily progress in the program as referenced in this handbook will result in the student being placed on academic probation. Students will be notified of probationary status and expectations for improvement by the program director or graduate support coordinator. Time limits for probationary status may vary. Typically, students have 9 credit hours or one year, whichever comes first, to raise their GPA.

Students who fail to meet requirements or timeline needed to demonstrate satisfactory improvement will be recommended for dismissal from the program. Notice will be provided by the program and will include procedures for appeal.

## Time to completion limit

All work toward a master’s degree must be completed within six consecutive years. Graduate courses taken prior to admission that are included on the Interactive Plan of Study must have been completed

within three years of the semester and year of admission to the program. The six-year period begins with the term of admission to the program OR the earliest term of applied pre-admission credit.

Any exception to the time limit policy must be approved by the program director, the College of Health Solutions, and the dean of the Graduate College. The Graduate College may withdraw students who are unable to complete all degree requirements and graduate within the allowed maximum time limits.

## Appeal and grievance processes

### Grade appeal

For grade disputes during a class, students must first contact the instructor of the course. Concerns that are not able to be resolved with the instructor should be brought to the program director.

The process to appeal a final course grade may only be initiated by a student once the course has concluded and a final course grade has been posted to the student's transcript. Per university policy, grade appeals must be processed in the regular semester immediately following the issuance of the final grade in dispute (by commencement for fall or spring) regardless of whether the student is enrolled at the university.

The process begins with a discussion about the matter between the student and the course instructor. If the matter is unresolved, the student should submit a Grade Appeal Form for further review. If this review does not adequately settle the matter, the student should begin the formal procedure of appealing to the College of Health Solutions Academic Standards and Grievance Committee. More information on all steps of this process can be found here.

### Student grievance

Students who wish to file a grievance about a non-grade-related matter may use the established procedure (more information can be found here). Non-grade-related grievances may include dissatisfaction with an instructor, problems with a classmate or other unresolved situations.

### Appealing recommendation for dismissal

1. Students may appeal a decision for dismissal from the program by submitting a letter to the program director.
    a. The appeal letter must be received within 10 business days of the date of the letter of dismissal. The letter should state the reasons justifying a reversal of the original decision and provide substantive evidence in support of the request.
    b. Letters received after the 10 business-day interval will not be reviewed, and the dismissal will be final.
    c. The program committee will review all letters of appeal that are received within the 10 business-day time frame. The committee will submit their decision to the program director within 10 business days of receipt of the student's letter.
2. The program director will then notify the Student Success Hub of the decision. The Student Success Hub will inform the student of the decision.
3. If the appeal is denied, the student may appeal to the CHS Academic Standards and Grievances Committee within 10 business days of receiving the denial of the appeal. The CHS Academic Standards and Grievances Committee will review the dismissal and appeal materials and make

a recommendation to the dean of the College of Health Solutions. The dean will have 20 calendar days to make a final decision.

4. If at any stage, a timely appeal is not submitted by the student, the program director will recommend dismissal to the Graduate College via the Student Success Hub. The Graduate College will then inform the student of the dismissal by letter.

# Student code of conduct and academic integrity

ASU expects and requires its students to act with honesty, integrity, and respect. Required behavior standards are listed in the ASU Student Code of Conduct, the ABOR Code of Conduct, the Computer, Internet, and Electronic Communications Policy, the ASU Student Academic Integrity Policy, and outlined by the Office of Student Rights & Responsibilities. Violations of a Graduate College, College of Health Solutions, or Arizona State University policy will result in academic review and may consequently result in student disciplinary procedures.

## Academic integrity

The ASU Student Academic Integrity Policy lists violations in detail. These violations fall into five broad areas that include, but are not limited to:

1. Cheating on an academic evaluation or assignment.
2. Plagiarizing.
3. Academic deceit, such as fabricating data or information.
4. Aiding academic integrity policy violations and inappropriately collaborating.
5. Falsifying academic records.

Information on the Academic Integrity procedure within the College of Health Solutions can be found at https://catalog.asu.edu/policies/chs.

Newly admitted graduate students will receive a "priority task" on their MyASU directing them to complete a canvas module on academic integrity. The module consists of a PowerPoint that outlines academic integrity and students must take a quiz and pass with an 80% or higher.

## Student code of conduct

Violations of the ASU Student Code of Conduct, other than the provision concerning academic dishonesty, are more generally considered inappropriate behavior. The Office of Student Rights and Responsibilities reviews and sanctions these matters. If a student violates both the academic integrity provision and additional provisions of the Student Code of Conduct, both the college and the Office of Student Rights and Responsibilities will review the matter. Each independently makes determinations concerning violations and appropriate sanctions.

## Professional conduct

ASU is a community and a professional work environment. Graduate students are expected to treat their peers, teachers, students, staff, and members of the ASU community with respect and work with them in a professional manner. Graduate students are representatives of their program, the College of Health Solutions, and ASU. Students must demonstrate the requisite qualifications for successful professional performance, including interpersonal skills, basic communication skills, appropriate professional conduct, and satisfactory performance in field experiences.

Graduate students who demonstrate behaviors or characteristics which make success in their related fields questionable will be reviewed by the program committee. The committee's review may result in a recommendation for dismissal from the program or implementation of probational conditions for continued participation. Students may appeal a recommendation for dismissal by following established procedures.

# College and university procedures and policies

All policies and procedures outlined in this handbook are in accordance with policy set by the Graduate College and Office of the University Provost. In some cases, program policies may be more restrictive than those set by Graduate College and Provost.

## Continuous enrollment policy

Students must be registered for a minimum of one credit hour during all phases of their graduate education, including the term in which they graduate. This includes periods when students are engaged in research, conducting a doctoral prospectus, working on or defending theses or dissertations, taking comprehensive examinations, taking Graduate Foreign Language Examinations, or in any other way using university resources, facilities or faculty time.

Registration for every fall semester and spring semester is required. Summer registration is required for students taking examinations, completing culminating experiences, conducting a doctoral prospectus, defending theses or dissertations, or graduating from the degree program. More information on this policy can be found here.

## Requesting a leave of absence

Graduate students planning to discontinue registration for a semester or more must submit a leave of absence request via their Interactive Plan of Study (iPOS). This request must be submitted and approved **before** the anticipated semester of non-registration. Students may request a maximum of two semesters of leave during their entire program. Students with a Graduate College-approved leave of absence are not required to pay tuition or fees, but in turn are not permitted to place any demands on university faculty or use any university resources. These resources include university libraries, laboratories, recreation facilities or faculty and staff time. More information on this policy can be found here.

## Registration policies

Students are strongly encouraged to enroll in courses well in advance of the start of the term. Enrollment must be complete by the Add/Drop deadline for the session in which the class is offered. Courses that are dropped by the Add/Drop deadline will not appear on a student's transcript. If a course is removed from a student's schedule after this deadline, it will be considered a withdrawal and a grade of "W" will be recorded. Term dates and deadlines, including the Add/Drop, Tuition Refund, Course Withdrawal, and Session Withdrawal deadlines, can be found on the Academic Calendar.

## Discrimination, harassment, and retaliation

Title IX of the Education Amendments of 1972 is a federal law which provides that no person be excluded on the basis of sex from participation in, be denied benefits of, or be subjected to discrimination under any education program or activity. Both Title IX and university policy ACD 401 make clear that sexual violence and harassment based on sex is prohibited. An individual who believes they have been subjected to sexual violence or harassed on the basis of sex can seek support, including counseling and academic support, from the university. For information on resources, visit the sexual violence awareness, prevention, and response website.

# Student support resources

### Academic program support

Admitted students will gain access to the program Canvas site before starting the program. Canvas houses program resources and allows for timely announcements and opportunities to be communicated to students.

Prior to orientation, students will be notified via email of the classes to be taken during the first term. Refer to the Registration policies section for information on enrollment, withdrawal, and deadlines. During orientation week, students will attend an information session regarding and overview of the program, the sequence of classes, and applied project options. Students will meet with the program director and graduate support coordinator as well as program faculty during orientation week. Attendance at orientation is required.

Graduate students in the College of Health solutions may access the CHS website for information on college policies and resources and advising information.

### University resources

- Graduate College
- Office of the University Provost

### Academic and career support

- ASU Libraries
- Graduate Writing Center
- Career and Professional Development Services
- Graduate and Professional Student Association
- Student Clubs and Organizations

### Business and finance services

- Financial Aid and Scholarship Services (financial aid)
- Billing and Student Finances (tuition, fees, and payments)
- Parking and Transit Services (permits, shuttles, public transit)
- Sun Devil Card Services (ID cards)
- Enterprise Technology (technology assistance)
- Sun Devil Dining (meal plans, M&G, hours)

### Counseling services

ASU Counseling Services provides confidential, time-limited counseling and crisis services for students experiencing emotional concerns or other factors that affect their ability to achieve their goals. Support is available 24/7.

In-person counseling: Monday-Friday 8 a.m. – 5 p.m.

ASU Counseling Services, Student Services Building 234 Tempe, AZ 85287

480-965-6146

After-hours/weekends

Call EMPACT's 24-hour ASU-dedicated crisis hotline:

480-921-1006

For life threatening emergencies

Call 911

**Disability accommodations**

Reasonable accommodations are determined on a case-by-case, course-by-course basis to mitigate barriers experienced due to a disability (SSM 701-02). Students with disabilities who require accommodations must register with the Student Accessibility and Inclusive Learning Services and submit appropriate documentation. It is recommended students complete this process at the beginning of the term and communicate as appropriate with their instructor.

- Email: Student.Accessibility@asu.edu
- Phone: (480) 965-1234
- FAX: (480) 965-0441

*Pregnancy:* Students requesting services due to pregnancy (SSM 701-10) should be prepared to submit documentation regarding the pregnancy, any complications and clearance to return to school related activities. Student Accessibility can work with students to foster continued participation in a program, whether that be with academic accommodations such as absences or assistance requesting a leave, or through other requested accommodations.

**Health and fitness**

All ASU students enrolled in in-person programs have access to Sun Devil Fitness facilities on all campuses. For more information about facilities, membership and group fitness classes, please visit: https://fitness.asu.edu

For information about health insurance and appointments with care providers, please see the ASU Health Services website: https://eoss.asu.edu/health

**International students**

ASU's International Student and Scholars Center can provide support and answers to questions about visas, employment, scholarships and travel. To find more information or schedule an appointment with an ISSC adviser, visit the website: https://issc.asu.edu/

**Veterans and military**

The Pat Tillman Veterans Center provides guidance and support for students who are veterans, active-duty military or military dependents. For more information, please call the office at 602 496-0152 or visit: https://veterans.asu.edu/

# Appendix

## A: Program faculty

**Francesco Acciai, PhD** (profile) – demography, social inequalities in health, health disparities, population health, childhood obesity, neighborhood processes in health, food access, longitudinal analysis, multilevel analysis, statistical methods

**Ding-Geng Chen, PhD** (profile) – biostatistics, statistical meta-analysis, clinical trial design and analysis, design and analysis of stepped wedge cluster randomized trials, design and analysis of sequential multiple assignment randomization trials (SMARTS), bayesian statistics, survival data analysis, longitudinal data analysis, multi-level modeling, joint modeling, latent-class joint modeling, structural equation modeling and causal inferences.

**Keiwei Chen, PhD** (profile) – studies of Alzheimer's disease (AD) and AD prevention using neuroimaging techniques, and methodology developments for the use of these neuroimaging techniques

**Zhongxue Chen. PhD** (profile) – developing new theory and method in biostatistics, statistical genetics, bioinformatics, survival analysis, statistical hypothesis testing, meta-analysis, and machine learning.

**Yunro Chung, PhD** (profile) – biomarker discovery for personalized diagnosis, clinical trials, machine learning

**Marisa Domino, PhD** (profile) – health economics and policy, behavioral health, Medicaid policy

**Elizabeth Kizer, PhD** (profile) – social ecological models, rural public health

**Sally Morton, PhD** (profile) – statistics, evidence synthesis, meta-analysis and patient-centered ccomparative effectiveness, statistics in health policy and public health

**Mark Reiser** (profile) – statistical models for multivariate analysis, latent variable models, mixed models and missing data, goodness-of-fit testing for cross-classified categorical variables

**Ryan Seltzer, PhD** (profile) – biostatistics, data analysis, statistical modeling, psychometrics

**Chad Stecher, PhD** (profile) – health economics, physician behavior, health habits

**Jeffrey Wilson, PhD** (profile) – biostatistics, longitudinal data analysis, joint mean dispersion kurtosis models, hierarchical models, statistical analysis, public health statistics