



THE UNIVERSITY OF ARIZONA

Mel & Enid Zuckerman  
College of Public Health

**MPH – Biostatistics**

**Curriculum & Recommended Course Sequencing**

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**Effective for those following the 2022/2023 academic curriculum guide**

**REQUIRED CORE COURSES** - (16 units)

- EPID 573A Basic Principles of Epidemiology (3)  
PHPM 574 Public Health Policy & Management (3)  
EHS 575 Environmental & Occupational Health (3)  
BIOS 576A Biostatistics in Public Health (3)  
HPS 577 Sociocultural & Behavioral Aspects of Public Health (3)  
BIOS 580 Integrated Public Health Learning Experience - **MPH capstone course** (1)

Internship Preparation Workshop

(**required**; non-credit; semester before internship begins)

Interprofessional Education Activities

(**documentation required**; non-credit)

**REQUIRED BIostatISTICS COURSES** - (17 units)

- BIOS 576B Biostatistics for Research (3)  
BIOS 576C Applied Biostatistics Analysis (3)  
BIOS 576D Data Management and the SAS Programming Language (3)  
BIOS 647 Analysis of Categorical Data (3)  
BIOS 909 Master's Report "Internship" (5)

**ELECTIVE COURSES** - (minimum 9 units, approved by Faculty Mentor)

At least 6 units from the following courses:

- BIOS 648 Analysis of High Dimensional Data (3)  
BIOS 675 Clinical Trials and Intervention Studies (3)  
BIOS 684 General Linear and Mixed Effects Models (3)  
BIOS 686 Survival Analysis (3)

Other elective courses:

- EPID 677 Genetic Association Studies (3)  
BIOS 685 Special Topics in Biostatistics (3)  
STAT 571A Advanced Statistical Regression Analysis (3)  
STAT 571B Design of Experiments (3)  
STAT 675 Statistical Computing (3)

**Total Required Credit Hours: 42**

**Biostatistics Recommended Course Sequencing**  
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| <b>FIRST YEAR</b>  |  |   |   |
|--|--|---|---|
| <b>Fall Semester - (9 units)</b>   |  | <b>Spring Semester - (9 units)</b>                        |   |
| <b>BIOS 576A*</b>  | <b>Biostatistics in Public Health (3)</b>            | BIOS 576B   | Biostatistics for Research (3)  |
| <b>EPID 573A*</b>  | <b>Basic Principles of Epidemiology (3)</b>          | PHPM 574*   | Public Health Policy & Management (3)   |
| EHS 575*   | Environmental & Occupational Health (3)              | HPS 577*  | Sociocultural & Behavioral Aspects of Public Health (3)                       |
|  |  | Internship Preparation Workshop<br>(required; non-credit) |   |
| <b>SECOND YEAR</b>   |  |   |   |
| <b>Fall Semester - (12 units)</b>  |  | <b>Spring Semester - (12 units)</b>                       |   |
| BIOS 576C <sup>1</sup>   | Applied Biostatistics Analysis (3)                   | BIOS 647 <sup>2</sup>                                     | Analysis of Categorical Data (3)  |
| Elective(s)  | (Approved by Faculty Mentor) (6)                     | BIOS 909 **   | Master's Report "Internship" (5)  |
| BIOS 576D <sup>1</sup>   | Data Management and the SAS Programming Language (3) | Elective  | (Approved by Faculty Mentor) (3)  |
|  |  | BIOS 580  | Integrated Public Health Learning Experience - <b>MPH capstone course</b> (1) |
| <b>IMPORTANT GUIDELINES</b>  |  |   |   |
| <b>Bolded courses in first fall semester indicate essential courses for the student to take that semester.</b>   |  |   |   |
| * MPH required core courses are offered fall & spring semesters, allowing flexibility. The modality and number of offerings may vary by semester and are subject to change. All five 3-unit Core Courses must be complete prior to the student's final term in the program.  |  |   |   |
| <b>** Prerequisites for BIOS 909 – Master's Report "Internship":</b> At least 3 MPH core courses and BIOS 576A and BIOS 576B. BIOS 909 may be taken in one or more semesters and the credits may be split across semesters. Final report cannot be submitted until all five 3-unit core courses have been completed. |  |   |   |
| <sup>1</sup> BIOS 576C and BIOS 576D are only offered in the Fall Semester.  |  |   |   |
| <sup>2</sup> BIOS 647 is only offered in the Spring Semester.  |  |   |   |