**Master of Science: Biostatistics and Data Science**

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| Name: |  | | | Student Number: | |  |  |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Course | Credits | Title | Semester & Year | Grade | | **Leveling and Other Required Courses**  *(see planning note 1)* | | | | | | Public Health 101 | 0 | PH 101 Foundations in Public Health *(required for all students; see planning note 2)* |  |  | | PH 1630L | 2 | Introduction to R Programming for Biostatistics and Data Science |  |  | | PH 1631L | 2 | Introduction to Python Programming for Biostatistics and Data Science |  |  | | PHM 1690L | 4 | Introduction to Biostatistics in Public Health |  |  | |  |  |  |  |  | | | | | | | | |
| Course | | Credits | Title | | Semester & Year | Grade | Competencies\*/Notes |
| **Major Courses in Biostatistics and Data Science** | | | | | | | |
| *24 credit hours* | | | | | | | *Competencies* |
| PH 1700L | | 3 | Intermediate Biostatistics | |  |  | *MS-B1; MS-B3; MS-B4* |
| PH 1820L | | 3 | Applied Linear Regression | |  |  | *MS-B1; MS-B3; MS-B4* |
| PH 1821L | | 3 | Applied Multivariate Analysis | |  |  | *MS-B1; MS-B3; MS-B4* |
| PH 1830L | | 3 | Categorical Data Analysis | |  |  | *MS-B1; MS-B3; MS-B4* |
| PH 1910L | | 3 | Probability and Distribution Theory | |  |  | *MS-B2* |
| PH 1911L | | 3 | Statistical Inference | |  |  | *MS-B3* |
| PH 1975L | | 3 | Introduction to Data Science | |  |  |  |
| PH 1976L | | 3 | Fundamentals of Data Analytics and Predictions | |  |  |  |
| **Electives**  *(see planning note 3)* | | | | | | | |
| *9 credit hours* | | | | | | | *Notes* |
|  | |  |  | |  |  | *Must be epidemiology course (2600-2999)* |
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|  | |  |  | |  |  |  |
| **Thesis**  *(see planning note 4)* | | | | | | | |
| *3 credit hours* | | | | | | | *Notes* |
| PHM 9998 | | 3 | Integrative Learning Experience/ Thesis Research | |  |  |  |
| **Total Credits** | | **36** | *(see planning note 5)* | | | | |

*For course availability, including online offerings, please reference the* [*Course Rotation Schedule*](https://web.sph.uth.edu/student-forms/Academic_Requirements/Schedule%20of%20Classes/Reference.Course_Rotation.pdf) *and the* [*Interactive Course Schedule*](https://web.sph.uth.edu/course/CourseSchedule)*.*

*Competency statements can be found in the* [*CEPH Competencies*](https://uthtmc.sharepoint.com/sites/SPH-mySPH/SitePages/CEPH-Competencies.aspx) *index.*

**Planning Notes:**

**Planning Note 1 (Leveling Courses):** Required leveling courses are outlined in the student’s offer of admission letter. At the department’s discretion, students may be eligible to waive these courses if they provide evidence of having successfully completed equivalent coursework previously. Waived courses must have an approved Course Waiver form on file with the Office of Academic Affairs and Student Services. *Academic credits from leveling courses do not count towards the total required number of credits for the degree program.*

**Planning Note 2 (PH 101):** This course is required for all students enrolled in the MS in Biostatistics and Data Science. This course is an online, not-for-credit course that covers the Foundational Knowledge Competencies set forth by CEPH. Students will be added to the course in Canvas during their first semester. Students must complete the course within one year of matriculation.

**Planning Note 3 (Electives):** Students are required to complete 9 credit hours of elective coursework. Students must complete a 3-credit hour course from the Department of Epidemiology (2600-2999). Students are encouraged to complete elective coursework in biostatistics (1700-1999; not already on the degree planner). Students should consult with their advisor when selecting elective courses. Students may also elect to complete a minor outside of their department. Students who opt to complete a minor should consult with their advisor and the minor’s department for requirements.

**Planning Note 4 (Thesis):** Students are required to complete 3 credit hours of thesis research (*PHM 9998 Integrative Learning Experience/Thesis Research*). A maximum of 6 credit hours of thesis will count towards the degree requirement.

**Planning Note 5 (Total Credits):** Completion of a prescribed course of study of at least one (1) academic year and a minimum of at least 36 semester credit hours. A maximum of six (6) credit hours of thesis count toward the minimum of 36 credit hours. If the student chooses to elect a practicum, no more than three (3) credit hours of practicum and three (3) credit hours of thesis count toward the minimum of 36 credit hours. Therefore, at least 30 credit hours of courses other than practicum or thesis must be successfully completed.