**Doctor of Philosophy: Biostatistics and Data Science**

*Direct Admission to PhD Program*

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| Name: |  | | | Student Number: | | |  |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | Course | Credits | Title | Semester & Year | Grade | | **Leveling and Other Required Course** | | | | | | Public Health 101 | 0 | PH 101 Foundations in Public Health *(required for all students; see planning note 1)* |  |  | | PH 1630L | 2 | Introduction to R Programming for Biostatistics and Data Science |  |  | | PH 1631L | 2 | Introduction to Python Programming for Biostatistics and Data Science |  |  | |  |  |  |  |  | | | | | | | | |
| Course | | Credits | Title | | Semester & Year | Grade | Corresponding Competencies |
| **Masters Equivalent Coursework**  *(see planning note 2)* | | | | | | | |
| *21 credit hours* | | | | | | | *Competencies* |
| PHM 1700L | | 3 | Intermediate Biostatistics | |  |  |  |
| PH 1820L | | 3 | Applied Linear Regression\* | |  |  |  |
| PH 1821L | | 3 | Applied Multivariate Analysis\* | |  |  |  |
| PH 1830L | | 3 | Categorical Data Analysis \* | |  |  |  |
| PH 1910L | | 3 | Probability and Distribution Theory\* | |  |  |  |
| PH 1975L | | 3 | Introduction to Data Science | |  |  |  |
| PH 1976L | | 3 | Fundamentals of Data Analytics and Predictions | |  |  |  |
| **PhD Required Courses**  *(see planning note 2)* | | | | | | | |
| *19 credit hours* | | | | | | | *Competencies* |
| PH 1831L | | 3 | Survival Analysis\* | |  |  |  |
| PH 1911L | | 3 | Statistical Inference\* | |  |  |  |
| PHD 1915L | | 3 | Linear Models I\* | |  |  | PhD-B1 |
| PH 1916L | | 3 | Generalized Linear Models | |  |  | PhD-B1; PhD-B3 |
| PHD 1930L | | 3 | Statistical Computing | |  |  | PhD-B2; PhD-B4 |
| PHD 1950L | | 3 | Stochastic Processes in Biostatistics I\* | |  |  | PhD-B1; PhD-B2 |
| PH 1988 | | 1 | Biostatistics Seminar | |  |  |  |
| **Minor**  *(see planning note 3)* | | | | | | | |
| *9 credit hours* | | | | | | | *Competencies* |
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| **2nd Minor or Breadth**  *(see planning note 4)* | | | | | | | |
| *9 credit hours* | | | | | | | *Competencies* |
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| **Electives**  *(see planning note 5)* | | | | | | | |
| *8 credit hours* | | | | | | |  |
|  | |  |  | |  |  | *Must be biostatistics course (1700-1999)* |
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| **Research Practice Experience**  *(see planning note 6)* | | | | | |
| *3 credit hours* | | | | |  |
| PHD 1995 | 3 | Research Practice Experience for Biostatistics Students |  |  |  |
| **Dissertation**  *(see planning note 7)* | | | | | |
| *3 credit hours* | | | | |  |
| PHD 9999 | 3 | Dissertation |  |  |  |
| **Total Credits** *(see planning note 8)* | **72** |  | | | |

*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)*.*

**Planning Notes:**

**Planning Note 1 (PH 101):** This course is required for all students enrolled in the PhD 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 2 (Required Courses for Preliminary Exam)***:* Students must successfully complete each course indicated in the planner with an asterisk (\*) prior to sitting for the preliminary exam.

**Planning Note 3 (Minor):** Students are required to elect a minor outside their department. Students should consult with their advisor and the minor’s department for requirements.

**Planning Note 4 (2nd Minor or Breadth):** Students may choose to complete a breadth or second minor. PhD in Biostatistics and Data Science students are encouraged to complete a 9 credit hour breadth in Bioinformatics (choose from PH 1980L, PH 1982L, PH 1984L, PH 1986L) or Data Science (choose from PH 1975L, PH 1976L, PH 1977L, PH 1978L, PH 1979L, or PH 1992). Students who do not elect an epidemiology minor (*see planning note 3*) must complete a 3 credit hour epidemiology course as part of the breadth (2600-2999). Students who do complete an epidemiology minor (*see planning note 3*) must complete a 3 credit hour course outside of both epidemiology and biostatistics for the breadth. Students who choose to complete a breadth should consult with their advisor to determine which courses are most appropriate for their academic and professional goals. Students who choose to complete a second minor should consult with their advisor and the minor’s department for requirements.

**Planning Note 5 (Electives):** Students are required to complete a minimum of 8 credit hours of electives from any biostatistics course above the 1700 level that is not already required on the degree planner (1700-1999). Students should consult with their advisor when selecting elective courses coursework appropriate for the student’s research and career goals.

**Planning Note 6 (Research Practice Experience):** Students should consult with their advisor to identify an appropriate research practice experience to fulfill learning objectives related to their research and career goals.

**Planning Note 7 (Dissertation):** A minimum of 3 credit hours of dissertation is required. A maximum of 6 credit hours of dissertation will count towards the degree requirement.

**Planning Note 8 (Total Credits):** Completion of a prescribed course of study of at least one (1) academic year and a minimum of at least 72 semester credit hours. A maximum of six (6) semester credit hours of dissertation count toward the minimum 72 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 dissertation count toward the minimum of 72 credit hours.  Therefore, at least 66 credit hours of courses other than practicum or dissertation must be successfully completed.

***Planner must be completed in collaboration with and signed by the faculty advisor. Changes to planned coursework may be made and submitted to the faculty advisor for approval. Students must submit their final completed degree planner with the evaluation report the semester before their anticipated graduation.***

**Advising Notes:**

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| **Approvals:** |  |  |  |  |
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| *Student, Printed* |  | *Student, Signature* |  | *Date* |
| *Faculty Advisor, Printed* |  | *Faculty Advisor, Signature* |  | *Date* |
| *Office of Academic Affairs Representative, Printed* |  | *Office of Academic Affairs Representative, Signature* |  | *Date* |