**Advanced Data Science**

This certificate is designed for both students and working professionals who intend to elevate their knowledge and skill-set regarding data science processes and their application. This certificate is an extension of the established Data Science Certificate and consists of learning modules in data science crafted to meet the needs of students, employers, and community partners. Topics include data mining, data science computing, and programming in Python and R.

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| --- | --- | --- | --- |
| Name: |  | Student ID Number: |  |
| **Degree-Seeking & Non-Degree-Seeking Students Certificate Requirements** |
| Course | Credits | Title | Semester & Year | Grade | Notes |
| **Required Courses** |
| *12 credit hours* |  |
| PH 1975L | 3 | Introduction to Data Science |  |  |  |
| PH 1976L | 3 | Fundamentals of Data Analytics and Predictions |  |  |  |
| PH 1977L | 3 | Data Science Computing |  |  |  |
| PH 1978L | 3 | Machine Learning in Practice |  |  |  |
| **Elective Courses** |
| *3 credit hours*  |  |
|  | 3 |  |  |  | *Must be advanced data science elective (19xx)* |
| **Total Credits** | **15** |  |

*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)*.*

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