

# MS in Data Science and Analytics with Emphasis in BioHealth Analytics

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## Degree Requirements

In addition to the core program objectives (<http://catalog.missouri.edu/graduateschool/datascienceanalytics/ms-data-science-analytics/>), graduates of the Masters of Science in Data Science and Analytics who pursue the BioHealth Analytics emphasis area will achieve the following educational objectives:

- Students will be able to possess an in-depth understanding of the data analytics needs in biotechnology and healthcare industries in the US and worldwide;
- Students will develop hands-on skill sets in understanding and processing multi-omics data and public/population health data, as well as large-scaled electronic health records;
- Students will have the ability to practice their analytic skill sets to applications in areas such as, agriculture, animals, and human healthcare, through case studies and capstone projects.
- Students will be able to visualize and interpret their data analytic results with actionable plans in biotech and healthcare industries.

## Emphasis Area Electives

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|---------------|---|---|
| DATA_SCI 8110 | Genomics Analytics                      | 3 |
| DATA_SCI 8120 | Multi-Omics Analytics                   | 3 |
| DATA_SCI 8130 | Data Science for Health Care            | 3 |
| DATA_SCI 8140 | Advanced Methods in Health Data Science | 3 |
| DATA_SCI 8150 | Precision Medicine Analytics            | 3 |
| DATA_SCI 8160 | Population Health Analytics             | 3 |