

BIOINFORMATICS AND COMPUTATIONAL BIOLOGY, MASTER OF SCIENCE (M.S.)

| Course | Title | Credits |
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| Core Requirements | | |
| BIOI601 | Probability and Statistics | 3 |
| BIOI602 | Principles of Data Science | 3 |
| BIOI603 | Principles of Machine Learning | 3 |
| BIOI604 | Principles of Molecular Biology, Genetics and Genomics (Principles of Molecular Biology, Genetics, and Genomics) | 3 |
| BIOI605 | Data Sources and Data Management in Bioinformatics (Data Sources and Data Management in Bioinformatics) | 3 |
| BIOI606 | Sequence Alignment (Sequence and Alignment) | 3 |
| BIOI607 | Data Structures and Algorithms for Bioinformatics (Data Structures and Algorithms for Bioinformatics) | 3 |
| BIOI610 | (Genome Annotation) | 3 |
| BIOI611 | (Analysis of Gene Expression Data) | 3 |
| Elective Requirement (choose one of the following): | | 3 |
| BIOI621 | (Genome Assembly and Annotation) | |
| BIOI622 | (Metagenomics Data Analysis) | |
| BIOI699 | (Capstone Research) | |
| Total Credits | | 30 |