WISCONSIN ONLINE COLLABORATIVES

Fall 2025

Course Preview Week: August 26 - September 01, 2025
Semester Dates: September 02 - December 12, 2025

ABT 720 Experimental Design and Analysis in Biotechnology* — 3 Credits

Principles of descriptive and inferential statistics with applications in biotechnology including experimental design, quantitative data analysis, and bioinformatic evaluation of complex molecular and biological data sets.
ABT 720 course syllabus

ABT 730 Python for Bioinformatics — 3 Credits

Learn diverse strategies for computational analysis of macromolecular data using Python, including sequence alignment, genome annotation, data retrieval, phylogenetic analysis, and molecular evolution. Experiential learning is emphasized; confidence in practical skills is developed through persistent application of course content to projects focused on current problems in bioinformatic research.
ABT 730 course syllabus

ABT 785 Applications of Bioinformatics — 3 Credits

Explore and apply existing bioinformatic tools, including implementation of pre-coded solutions to data acquisition, wrangling, analysis, visualization, and structural modeling problems. Students will complete a final project that generates a multi-system workflow to solve bioinformatic problems.
Prerequisites: ABT 720, ABT 730
ABT 785 course syllabus