Welcome to Johns Hopkins’ Master of Science in Bioinformatics Program!

Welcome to Johns Hopkins’ Master of Science in Bioinformatics Program, a joint offering of the Zanvyl Krieger School of Arts and Sciences and the Whiting School of Engineering. We are excited to have you join our program. Johns Hopkins University offers an innovative graduate degree program that prepares students for success in the field of bioinformatics. The program draws upon the strengths of the Johns Hopkins’ Biotechnology and Engineering programs to create a rigorous and comprehensive bioinformatics curriculum. The program integrates computer science, biosciences and bioinformatics disciplines. The MS in Bioinformatics is an 11-course, part-time degree program that can be completed fully online.

Course Requirements

This program is a blended program offering courses from the Zanvyl Krieger School of Arts and Sciences and the Whiting School of Engineering. The courses that are linked below are offered through the School of Arts and Sciences and all have the same first three numbers 410. The courses that start with 605 are the courses that are offered through the School of Engineering.

5 CORE COURSES:

- 410.602 Molecular Biology
- 410.610 Gene Organization and Expression
- 605.421 Foundations of Algorithms
- 605.441 Principles of Database Systems OR 410.634 Practical Computer Concepts for Bioinformatics
- 410.633 Introduction to Bioinformatics OR 605.452 Biological Databases and Database Tools

4 CONCENTRATION COURSES:

Students may choose any four concentration courses from the list for which they have satisfied the prerequisites. For a complete list of electives and specified prerequisites, please see the course catalog.

2 ELECTIVE COURSES:

Students may choose one elective from Computer Science and one elective from Biotechnology from the list provided in the catalog.

Contact:

Dr. Kristina Obom
Program Director,
Bioinformatics and Biotechnology
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Thesis (Optional)

Students wishing to complete a thesis may do so by embarking on a two semester thesis project, which includes 410.800 Independent Research Project and 410.801 Biotechnology Thesis courses. This project must be a hypothesis-based original research study. For more information please visit http://bit.ly/BfxThesis.

Course Enrollment:

We recommend that students register for courses as soon as possible once registration opens. Courses fill up quickly and early registration helps us determine if more course sections are necessary. When registering for courses, be aware that most of the elective courses require prior completion of core courses. Therefore, we recommend that you begin your studies by fulfilling the core course requirements. See the current course catalog for course prerequisites.

Registration by Term | Start | End
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Summer ’12 | April 9 | May 13
Fall ’12 | June 18 | August 27
Spring ’13 | Nov. 5 | Jan. 14