



**Brandeis University  
Rabb School of Continuing Studies  
Division of Graduate Professional Studies**

**GRADUATE CERTIFICATE IN BIOINFORMATICS  
Certificate Requirements (minimum): 7-course, 21-credits  
As of September 2010**

**Program Pre-Requirements**

*Some, All or None may be needed per decision of the Admissions Committee.*

RBIF 100	Introduction to Bioinformatics Scripting and Programming
RBIO 102	Molecular, Cell and Development Biology
RCHE 101	General, Organic and Biochemistry
RBIF 103	Probability and Statistics

**Core Courses**

*All 6 courses must be completed.*

RBIF 101	Structural Bioinformatics
RBIF 115	Statistical Genetics
RBIF 109	Biological Sequence Analysis
RBIF 110	Molecular Modeling and Cheminformatics
RBIF 111	R for Biomedical Informatics
RBIF 112	Biological Data Mining and Modeling

**Category A Electives**

*Choose 1 elective from the following:*

RBIF 102	Genomics and Genetics
RBIF 105	Proteomics: Analytical and Computational Principles
RBIF 107	Python Programming for Bioinformatics
RBIF 108	Computational Systems Biology
RBIF 113	Biological Database Systems
RBIF 114	Design and Analysis of Microarray Experiments
RBIO 101	Molecular Biology Laboratory Techniques
RBIF 120	Advanced Topics in Computational Biology