

BIOINFORMATICS AND COMPUTATIONAL BIOLOGY - CERTIFICATE

This certificate emphasizes acquiring biological and computational expertise by supplementing graduate students' experiences with the necessary training in scripting and analysis of DNA/RNA sequencing data on a high-performance computing cluster.

Program Requirements

Code	Title	Semester Credit Hours
BIOL 683	Experimental Design in Biology	3
GENE 657	Command Line Skills ¹	3
Select 9 hours from the following:		9
BIOL 651	Bioinformatics	
GENE 656	Bioinformatics - Metagenomics Data Analysis	
GENE 658	Differential Gene Expression	
GENE 659	Genome Assembly	
GENE 689	Special Topics in...	
MPHY 624	Biostatistics	
MPHY 625	Bioinformatics	
STAT 645	Applied Biostatistics and Data Analysis	
STAT 646	Statistical Bioinformatics	
STAT 651	Statistics in Research I	
STAT 652	Statistics in Research II	
Total Semester Credit Hours		15

¹ GENE 657 must be taken first. The other GENE courses offered may be taken in any other order.