Biomedical Informatics Graduate Certificate Curriculum

The core curriculum consists of 5 courses, including the one-credit-hour, seminar-based "Topics in Biomedical Informatics" plus 2 electives for a total of 19 credit hours.

Pre-Requisites
Design & Analysis of Algorithms (CS4071, or equivalent)
Introduction to Functional Genomics (GNTD8001C)

Core Courses
Database Management (EECE6010)
Introduction to Biostatistics (BE7022)
Introduction to Medical Informatics (BMIN7053)
Introduction to Bioinformatics (BMIN7099)
Biomedical Informatics Seminar (CS7003) (1 credit hour)

Elective Courses
(Select 2 courses)
Artificial Intelligence I (CS6033)
Digital Image Processing (EECE6042)
Intelligent Data Analysis (CS6052)
Advanced Algorithms (CS7081)
Principles of Clinical Trials (BE7066)
Introduction to Epidemiology (BE7076)
Decision and Cost-Effectiveness Analysis (BE7068C)
Applied Bayesian Analysis (STAT6043)
Pattern recognition (CS8021)
Genetics of Complex Disease (BE8068)
Molecular and Cellular Biology (GNTD7001)
Data Warehouse Design (EECE8075)