BIOCHEMISTRY CERTIFICATE

The biochemistry certificate requires a minimum of 15 credits (5 courses, 21 credit hours). Students who have not completed the 100-level and 200-level prerequisites for the required courses at the 300 level will complete more course work.

Students who have completed Introductory Biology, General Chemistry, Cell Biology, Genetics, and Organic Chemistry can complete the biochemistry certificate in one year by meeting the requirements for 300-level courses. Students needing to complete all the above-listed courses could complete the program in two years, although a realistic plan would be three years.

To receive the biochemistry certificate, a student must complete, at the University of Massachusetts Boston, the following courses:

Biochemistry 383 Biochemistry I lecture	3 credits/3 hours
Biochemistry 385 Biochemistry I lab	3 credits/7 hours
Biochemistry 384 Biochemistry II lecture	3 credits/3 hours
Biochemistry 386 Biochemistry II lab	3 credits/5 hours
Biology 372 Molecular Biology	3 credits/3 hours

Successful completion of a course requires a minimum grade of C. The grade point average (GPA) for all completed required courses must be 2.5 or higher.

It is expected that students enrolling to complete this biochemistry certificate will have completed the prerequisites for the above courses. Evidence of successful completion of these prerequisites elsewhere should be presented, prior to enrolling in Biochemistry 383 and Biochemistry 385, to the Biochemistry Director, in the form of an official university transcript. A grade of C or better is required, and the decision on whether to accept a course from another institution resides with the Biochemistry Director, in consultation with appropriate colleagues in biology and chemistry.

For students lacking the appropriate prerequisite courses, any or all of the following courses may be completed at the University of Massachusetts Boston:

Biology 111 Chemistry 103	General Biology I Chemical Principles I
Biology 112 Chemistry 104	General Biology II Chemical Principles II
Biology 212 Chemistry 253	Cell Biology (lecture) Organic Chemistry I
Biology 254 Chemistry 254	Genetics (lecture) Organic Chemistry II