Regulation for Minor in Computational Biology (CB)

Minor Program:

A BTech student can earn a minor certification in computational biology by completing 16 credits of regular courses, and further 4 credits through additional coursework, independent study (IS), undergraduate research (UR), or independent project (IP), or 8 credits of BTP on a core Computational Biology topic, with prior approval by CB UG Coordinator, for a cumulative 20/24 credits in Computational Biology. The program is intended to be complementary to CSE/ECE/CSAM/CSD/CSSS, and emphasizes on the foundations of cell and molecular biology, biochemistry, genetics, mathematical biology, systems biology and computational genomics. Students pursuing BTech in CSB cannot opt for a Minor in Computational Biology.

Courses: All courses are for 4 credits, except IQB, and require 3rd year standing or higher.
1. *Introduction to Quantitative Biology (IQB)*: Foundation course consisting of fundamental aspects of cellular and molecular studied by quantitative approaches as well as simple mathematical/statistical and computational tools.

2. Any 3 BIO-numbered (3xx to 6xx) course (except FOMB/IP/IS/UR/BTP/BIOX71—BIOX80) as long as pre-requisites are fulfilled.

Core Courses: IQB, listed above, is mandatory for the minor degree.

Recommended sequence of courses: IQB is recommended as the first course for the minor in computational biology.

Change History:
July, 2014 release
July, 2018 release