**Previous Curriculum**  
(all students matriculated prior to Fall 2018)

**Required courses:**
MATH 0116 or BIOL 0211  
MATH 0121  
PHYS 0109  
BIOL 0140  
BIOL 0145  
BIOL 0314  
BIOL 0324  
BIOL 0310 or BIOL 0305  
CHEM 0103 or CHEM 0107  
CHEM 0104 or CHEM 0107  
CHEM 0203  
CHEM 0322

**Two electives out of the following:**
BIOL 0225 Human Genetics  
BIOL 0280 Immunology  
BIOL 0305 Developmental Biology*  
BIOL 0310 Microbiology*  
BIOL 0330 Mechanisms of Microbial Pathogenesis  
BIOL 0350 Endocrinology  
BIOL 0331 The Genetics of Cancer  
BIOL 0365 Molecular Microbial Ecology  
BIOL/NSCI 0420 Neurogenetics  
BIOL 0449 Extremophiles: Conquering Earth’s Extreme Environments  
BIOL 0450 Topics in Reproductive Medicine  
CHEM 0204 Organic Synthesis and Spectroscopy  
CHEM 0301 Medicinal Chemistry  
CHEM 0355 Thermodynamics and Kinetics  
CHEM 0425 Biochemistry of Metabolism  
CHEM 0430 Current Topics in Biochem.  
CSCI 0101 The Computing Age or CSCI 0150 Computing for the Sciences

* When not taken as a requirement these courses may be used as an elective.

Rev. 6/20/18

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**New Curriculum**  
(all students matriculating Fall 2018 or later)

**Required courses:**
MATH 0116 or BIOL 0211  
MATH 0121  
PHYS 0109  
BIOL 0140  
BIOL 0145  
BIOL 0314  
CHEM 0103 or CHEM 0107  
CHEM 0104 or CHEM 0107  
CHEM 0203  
CHEM 0204  
CHEM 0322

**Quantitative Suite** - 1 elective out of the following:
CHEM 0355 Thermodynamics and Kinetics*  
CSCI 0201 Data Structures*  
CSCI 0321 Bioinformatics Algorithms*  
MATH 0200 Linear Algebra  
MATH 0223 Multivariable Calculus*  
MATH 0216 Introduction to Data Science  
MATH 0217 Elements of Mathematical Biology and Ecology  
MATH 0315 Mathematical Models in the Social and Life Sciences*

**Advanced Laboratory Suite** - 1 elective out of the following:
BIOL 0305 Developmental Biology  
BIOL 0310 Microbiology  
BIOL 0324 Genomics  
BIOL 0331 The Genetics of Cancer  
BIOL 0365 Molecular Microbial Ecology

**Advanced Non-Laboratory Suite** - 2 electives out of the following:
BIOL 0330 Mechanisms of Microbial Pathogenesis  
BIOL 0350 Endocrinology  
BIOL 0380 Immunology  
BIOL 0420 Neurogenetics  
BIOL 0425 Human Genetics  
BIOL 0449 Extremophiles: Conquering Earth’s Extreme Environments  
BIOL 0450 Topics in Reproductive Medicine  
BIOL 0475 Neuroplasticity*  
CHEM 0355 Thermodynamics and Kinetics*  
CHEM 0425 Biochemistry of Metabolism  
CSCI 0321 Bioinformatics Algorithms*  
PHYS 0241 Biomedical Imaging*

*Courses with pre-requisites other than courses already required of the MBBC major (or by waiver for some). A student may not count a single course in more than one elective suite category requirement.