MCDB – BS and BS INT

The Standard BS Degree – 18.5 Total Credits
The Standard BS INT Degree – 20.5 Total Credits

Pre-Requisites **9.5 Credits.**	BIOL 101a or b Biochemistry & Biophysics BIOL 102a or b Principles of Cell Biology BIOL 103a or b Genetics and Development BIOL 104a or b Principles of Ecology & Evolutionary Biology [these 4 modules are ½ semester in length and equal .5 credits each] [Students with an AP Biology score of 5 will be eligible to take the Yale Administered placement exam for these foundational modules – and subsequently place out of one or more.] 2 terms of General Chemistry (161/165; or 163/167; or its equivalent) 2 terms of General Chemistry Labs (134L/136L) 1 term of Organic Chemistry -(174, 175, or 220) 1 term of Organic Chemistry Lab (222L, 223L, or 226L) 2 terms of Physics (170, 171 or higher) 1 term of Math 115 or higher *(or STAT course)*
Core Courses **3.0 Credits.**	*Core Courses – choose any 3* MCDB 200b – Molecular Biology MCDB 202a – Genetics MCDB 205b – Cell Biology MCDB 210a – Developmental Biology MCDB 300a – Biochemistry; ***OR*** MB&B 300a – Principles of Biochemistry I
General Electives **2.0 Credits.**	Two general electives from MCDB numbered 250 or above. Two laboratory courses from either MCDB 342La and 343La; or 344Lb and 345Lb can be used together as one elective credit. If used as an elective, these laboratories cannot also fulfill the laboratory requirement. *(May choose an additional 2 from either the Core list above, or MCDB 250 or above courses. Second term of Organic Chem and Statistics course acceptable.)*
Special Electives **1.0 Credits.**	One special elective from MCDB numbered 350 or higher
Laboratories **1.0 Credits (or more).**	Two laboratory courses required from MCDB
Senior Requirement **2.0 Credits – BS.** **4.0 Credits – BS INT.**	Choose One of the following which must be taken in Senior Year *BS*: MCDB 485/486 (2 terms of Independent Research); MCDB 475 (two contiguous terms of MCDB 475, at least one of which must be taken during the senior year) *BS INT:* MCDB 495/496 (2 terms of *Intensive* Independent Research)