

**NEW MCDB MAJOR**  
Class of 2017 (and beyond)

| MCDB BS  |                 | MCDB BA  |                 |
|--|-----------------|--|-----------------|
| Prerequisites  | Minimum Credits | Prerequisites  | Minimum Credits |
| Foundations BIOL 101-104 - 2 terms   | 2.0             | Foundations BIOL 101-104 - 2 terms   | 2.0             |
| Gen Chem – 2 terms   | 2.0             | Gen Chem / Physics - 3 total terms   | 3.0             |
| Gen Chem Labs – 2 terms  | 1.0             | Math – 1 term ( <i>MATH 115 or higher or STAT course at Yale</i> )   | 1.0             |
| Orgo Chem – 1 term   | 1.0             |  |                 |
| Orgo Chem Lab – 1 term   | 0.5             |  |                 |
| Physics – 2 terms  | 2.0             |  |                 |
| Math – 1 term ( <i>MATH 115 or higher or STAT course at Yale</i> )                             | 1.0             |  |                 |
|  | 9.5             | <i>For students satisfying one or more prerequisites with AP scores, requirement is still to take any 3 terms of CHEM and PHYS courses at Yale with at least 1 from each department.</i> | 6.0             |
| <b>Core (Choose any 3)</b>   |                 | <b>Core (Choose any 2)</b>   |                 |
| MCDB 200 Molecular Biology   | 3.0             | MCDB 200 Molecular Biology   | 2.0             |
| MCDB 202 Genetics  |                 | MCDB 202 Genetics  |                 |
| MCDB 205 Cell Biology  |                 | MCDB 205 Cell Biology  |                 |
| MCDB 210 Developmental Biology   |                 | MCDB 210 Developmental Biology   |                 |
| MCDB 290 Microbiology  |                 | MCDB 290 Microbiology  |                 |
| MCDB 300 Biochemistry<br><i>OR</i>   |                 | MCDB 300 Biochemistry<br><i>OR</i>   |                 |
| MBB 300 Principles of Biochemistry I   |                 | MBB 300 Principles of Biochemistry I   |                 |
| MCDB 310 Physiological Systems   |                 | MCDB 310 Physiological Systems   |                 |
| MCDB 320 Neurobiology  |                 | MCDB 320 Neurobiology  |                 |
| MCDB 430 Biology of the Immune System  |                 | MCDB 430 Biology of the Immune System  |                 |
|  | 3.0             |  | 2.0             |
| <b>General Electives</b>   |                 | <b>General Electives</b>   |                 |
| Choose 2 from MCDB numbered 250 or above<br><i>[2nd term Orgo Chem &amp; Stats acceptable]</i> | 2.0             | Choose 2 from MCDB numbered 250 or above<br><i>(Orgo Chem &amp; STATS NOT acceptable)</i>  | 2.0             |
| Choose 2 from either the Core list above, or MCDB 250 or above                                 | 2.0             | Choose 2 from either the Core list above, or MCDB 250 or above   | 2.0             |
| <b>Special Electives</b>   |                 | <b>Special Electives</b>   |                 |
| Choose 1 from MCDB numbered 350 or above   | 1.0             | Choose 1 from MCDB numbered 350 or above   | 1.0             |
|  | 1.0             |  | 1.0             |
| <b>Labs</b>  |                 | <b>Labs</b>  |                 |
| 2 Labs from MCDB required  | 1.0             | 1 Lab from the Biological Sciences   | 0.5             |
|  | 1.0             | <i>(includes labs from MCDB/EEB/MB&amp;B/ANTH)</i>   | 0.5             |
| <b>Senior Requirement</b>  |                 | <b>Senior Requirement</b>  |                 |
| MCDB 475 (2 terms)<br><i>OR</i>  | 2.0             | Senior Essay<br><i>OR</i>  | 0.0<br>or       |
| MCDB 485/486 (preferred)   |                 | MCDB 475 - 1 term  | 1.0             |
|  | 2.0             |  | (Min) 0.0       |
| <b>BIOL</b>  | <b>2.0</b>      | <b>BIOL</b>  | <b>2.0</b>      |
| <b>MCDB</b>  | <b>9.0</b>      | <b>MCDB</b>  | <b>5.5</b>      |
| <b>TOTAL CREDITS</b>   | <b>18.5</b>     | <b>TOTAL CREDITS</b>   | <b>11.5</b>     |

| MCDB BS INT                       | Credits     |
|-----------------------------------|-------------|
| Prerequisites (same as BS)        | 9.5         |
| Core (same as BS)                 | 3.0         |
| General Electives (same as BS)    | 2.0         |
| Special Electives (same as BS)    | 1.0         |
| Labs (same as BS)                 | 1.0         |
| Senior Requirement - MCDB 495/496 | 4.0         |
| <b>BIOL</b>                       | <b>2.0</b>  |
| <b>MCDB</b>                       | <b>11.0</b> |
| <b>TOTAL CREDITS</b>              | <b>20.5</b> |