### Molecular, Cellular, and Developmental Biology

#### Degrees Offered

<table>
<thead>
<tr>
<th>B.A.</th>
<th>B.S.</th>
<th>B.S. Intensive</th>
<th>B.S./M.S.</th>
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<tr>
<td>BIOL 101, 102, 103, and 104</td>
<td>1 course in MATH 115 or higher or S&amp;DS course at Yale (approved by DUS)</td>
<td>2-term lecture sequence in CHEM + 2 Labs</td>
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<tr>
<td>1 term in PHYS 170 or higher</td>
<td>2 terms PHYS 170 or higher</td>
<td>1 term organic CHEM + 1 Lab</td>
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<td>5.5 course credits beyond prereqs</td>
<td>9 course credits beyond prereqs</td>
<td>11 course credits beyond prereqs</td>
<td>14 course credits beyond prereqs (consult DUS)</td>
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<td>2 core courses from MCDB 200, 202, 205, 210, 290, 300 (or MB&amp;B 300)</td>
<td>3 core courses from MCDB 200, 202, 205, 210, 290, 300 (or MB&amp;B 300)</td>
<td>2 MCDB labs</td>
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<tr>
<td>1 bioscience lab</td>
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<td>2 general elective MCDB courses numbered 250 and above or 2 additional core courses</td>
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<tr>
<td>1 special elective from MCDB 350 or higher</td>
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<td>4 graduate-level electives, one of which must be grad seminar with DUS approval</td>
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#### Prerequisites for entering the major

- 2-term lecture sequence in CHEM
- 1 term in PHYS 170 or higher
- 1 term organic CHEM + 1 Lab

#### Requirements for each degree

- **B.A.**
  - BIOL 101, 102, 103, and 104
  - 1 course in MATH 115 or higher or S&DS course at Yale (approved by DUS)
  - 5.5 course credits beyond prereqs
  - 2 core courses from MCDB 200, 202, 205, 210, 290, 300 (or MB&B 300)
  - 1 bioscience lab
  - 1 special elective from MCDB 350 or higher

- **B.S.**
  - BIOL 101, 102, 103, and 104
  - 1 course in MATH 115 or higher or S&DS course at Yale (approved by DUS)
  - 9 course credits beyond prereqs
  - 3 core courses from MCDB 200, 202, 205, 210, 290, 300 (or MB&B 300)
  - 2 MCDB labs
  - 2 general elective MCDB courses numbered 250 and above or 2 additional core courses
  - 1 special elective from MCDB 350 or higher

- **B.S. Intensive**
  - BIOL 101, 102, 103, and 104
  - 1 course in MATH 115 or higher or S&DS course at Yale (approved by DUS)
  - 11 course credits beyond prereqs
  - 3 core courses from MCDB 200, 202, 205, 210, 290, 300 (or MB&B 300)
  - 2 MCDB labs
  - 2 general elective MCDB courses numbered 250 and above or 2 additional core courses
  - 1 special elective from MCDB 350 or higher

- **B.S./M.S.**
  - BIOL 101, 102, 103, and 104
  - 1 course in MATH 115 or higher or S&DS course at Yale (approved by DUS)
  - 14 course credits beyond prereqs (consult DUS)
  - 3 core courses from MCDB 200, 202, 205, 210, 290, 300 (or MB&B 300)
  - 2 MCDB labs
  - 2 general elective MCDB courses numbered 250 and above or 2 additional core courses
  - 1 special elective from MCDB 350 or higher
  - 4 graduate-level electives, one of which must be grad seminar with DUS approval

#### Senior Essay or 1 term of research in MCDB 475

- **B.A.** MCDB 485, 486
- **B.S.** MCDB 495, 496
- **B.S./M.S.** MCDB 585 (junior spring) MCDB 595, 596 (senior year) (6 credits)

#### Special Track Requirements

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<tr>
<th>Biotechnology</th>
<th>Neurobiology</th>
<th>Quantitative Biology</th>
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<td>Same B.A. or B.S. requirements; MCDB 370; 1 elective from MCDB 350 or higher; 1 elective from MB&amp;B 420, 421, 443, BENG 351, 352, 410, 415, 435, 457, 463, 464, CENG 210, 411, 412L, CPSC 437, 445, 470, or 475</td>
<td>Same B.A. or B.S. requirements; MCDB 320; 1 elective from MCDB 350 or higher; 1 elective from BENG 410, CPSC 475, MCDB 250, 310, 315, 415, 425, 430, 440, MCDB 361, PSYC 376, or S&amp;DS 101</td>
<td>Same B.A. or B.S. requirements; MCDB 330; 1 elective from MCDB 350 or higher; 1 elective from MCDB 320, 361, 461, BENG 463, 467, CPSC 440, 475, MB&amp;B 302, 435, 452, 523, PHYS 402, MATH 246, 251, or CPSC 475, 440</td>
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**Updated May 2022**