# Quantitative Biology Track Worksheet

**Student**

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<tr>
<th>BIOL Prerequisites:</th>
<th>Placement Exam Score</th>
<th>Course #</th>
<th>Semester</th>
<th>Grade</th>
<th>Place Out</th>
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<tr>
<td>BIOL 101a or b Biochemistry and Biophysics</td>
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<td>BIOL 102a or b Prin of Cell Biology</td>
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<td>BIOL 103a or b Genetics and Development</td>
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<td>BIOL 104a or b Prin of Ecology &amp; Evolutionary Biology</td>
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**GEN CHEM Prerequisites:**

- General Chemistry
  - (2 terms - 161/165; or 163/167; or its equivalent)
- General Chemistry Labs
  - (2 terms - 134L/136L)

**ORG CHEM Prerequisites (BS & BS INT only)**

- Organic Chemistry (1 term - 174; or 175; or 220)
- Organic Chemistry Lab (1 term - 222L; or 223L; or 226L)

**PHYSICS Prerequisites:**

- Physics (170/171; or 180/181; or 200/201; or 260/261)

**MATH Prerequisites:**

- Math 115 or higher

**CORE COURSES: (BS & BS INT - Choose any 3)**

- MCDB 200b Molecular Biology
- MCDB 202a Genetics
- MCDB 205c Cell Biology
- MCDB 210a Developmental Biology

**Required Track Course:** MCDB 330 Intro Dynamical Systems in Biology

**AND Choose 1 additional elective below**

- MCDB 361b *Dynamical Systems in Biology (preferred track elective)
- MB&B 300a Principles of Biophysics
- MB&B 435a Mathematical Methods in Biophysics
- MB&B 452b Bioinformatics: Mining & Simulation
- CPSC 440b Comp Vision & Bio Perc.
- CPSC 475a Advanced Classical Physics
- MATH 246b Ordinary Differential Equations

**GENERAL ELECTIVES: (2 Total)**

- MCDB 320a Neurobiology
- MATH 251b Stochastic Processes
- MB&B 302b Principles of Biophysics
- MB&B 435a Mathematical Methods in Biophysics
- MB&B 452b Bioinformatics: Mining & Simulation
- CPSC 523a Biological Physics
- PHYS 402b Advanced Classical Physics

**SPECIAL ELECTIVES:**

- BS & BS INT: Choose 1 from MCDB 350 or above

**LABS:**

- BS & BS INT: Choose 2 labs (must be from MCDB)

**SENIOR REQUIREMENT:**

**BS: (2 terms of Senior Research)**

- MCDB 475 a or b Senior Independent Research in MCDB
- MCDB 485/486 Senior Research MCDB BS Major

*MCDB 485/486 is preferred - but 2 terms of MCDB 475 (+ summer) will satisfy this req

**BS INT: (2 terms of Senior Research Intensive)**

- MCDB 495/496 Senior Research Intensive MCDB BS INT Major