

## Checklist for the Molecular and Cellular Biology (MCB) Concentration in Biology

1. **Introductory Biology**  
Biology 1102 OR Biology 1109
- 2. Molecular and Cellular Biology—4 courses**
- Biol 2112: Genetics and Molecular Biology – Spring
- Biol 2124: Biochemistry and Cell Biology - Fall
- Biol 2316: Evolution - Spring
- Biol 2175: Developmental Biology - Fall  
or  
Biol 2118: Microbiology - Spring
- 3. Chemistry—2 courses**
- Chemistry 1092 **or** Chemistry 1102 **or** Chemistry 1109 **or** any Chemistry above 1200
- Chemistry 2250: Organic Chemistry I – Fall
- 4. Physical, Mathematical, Statistical, or Computational—2 courses (each from a different group below)**
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- Computer Science (above 1100) \_\_\_\_\_
- Physics (above 1100) \_\_\_\_\_
- Math (above 1299) or Psychology 2520 \_\_\_\_\_
5. **Advanced Topics in Molecular and Cellular Biology—1 course**
- Biol 2551: Molecular Ecology  
Biol 2553: Neurophysiology  
Biol 2566: Molecular Neurobiology  
Biol 2557: Immunology  
Biol 3304: The RNA World  
Biol 3307: Evolutionary Developmental Biology  
Biol 3314: Advanced Genetics and Epigenetics  
Biol 3317: Molecular Evolution  
Biol 3333: Advanced Cell and Molecular Biology
6. **Seminar in Molecular and Cellular Biology—1 course not counted above**
- Biol 3304: The RNA World  
Biol 3307: Evolutionary Developmental Biology  
Biol 3314: Advanced Genetics and Epigenetics  
Biol 3317: Molecular Evolution  
Biol 3333: Advanced Cell and Molecular Biology
7. **Elective: Additional Biological Science course – 1 course**
- Biol 1101: Biological Principles I – Fall
- Any Biology course numbered 2000 or higher not counted above
- Chemistry 2320: Biochemistry