

Biology

Major

- a. Mathematics:
 - a. Mathematics 408C, 408R, or 408N and 408S. Students who intend to take additional calculus coursework should begin the sequence with Mathematics 408C or 408N.
 - b. Statistics and Data Sciences 320E.
- b. Primary science:
 - a. Biology 206L, 311C, 311D, [325, or (315H and 325H)], Integrative Biology 370, Molecular Biosciences 320, Integrative Biology 373.
 - b. Complete one of the following:
 1. Ecology, evolution, and biodiversity (4 courses total):
 - One course from the following list: Integrative Biology 364, 448L, 463L, 440L, 359L, 369F, 369L, 453L, 455L, 470L.
 - One course from the following list: Integrative Biology 322/122L, 374/174L, Biology 456L, Integrative Biology 478L, 373L, 448L, 463L, 440L, 369F, 369L, 453L, 455L, 321G, Biology 377.
 - Two courses from the following list: Integrative Biology 322/122L, 323, 351, 359K, 364, 374/174L, 375, 471, Biology 456L, Integrative Biology 478L, 373L, 448L, 463L, 440L, 369F, 369L, 453L, 455L, 321G, 377; Marine Science 352C, 320, 357, 354E, 352E.
 2. Organismal biology and physiology (4 courses total):
 - Three courses from the following list: Integrative Biology 346, 365S/165U, 361T, Molecular Biosciences 328, Integrative Biology 446L, 374/174L, 478L, 440L, 369F, 453L, 448L, Biology 377; Neuroscience 320; Marine Science 355C, 354U, 354C, 357, 354, 352D.
 - One course from the following list: Integrative Biology 446L, 478L, 440L, 369F, 453L, 448L, 371L, Biology 377.
 3. Genetics, genomics, and computational biology (4 courses total):
 - Three courses from the following list: Molecular Biosciences 325T, 350, 356E, 327G, 366, 366R, Biology 325L, 377, Integrative Biology 321G; Statistics and Data Sciences 322E; Marine Science 354E.
 - One course from the following list: Biology 325L, Integrative Biology 321G, Biology 377.
 4. Molecular, cell, and developmental biology (4 courses total):
 - Molecular Biosciences 350
 - One course from the following list: Molecular Biosciences 349L, 320L, 331L, 226L, 230L, 260L, 361L, Biology 377.
 - Two courses from the following list: Molecular Biosciences 344, 366R, 361, 336, 350M, 355, 349L, 320L, 331L, 230L, 260L, 361L, Biology 377; Biochemistry 369.
 5. Microbiology and infectious disease (4 courses total):
 - Molecular Biosciences 326R
 - Molecular Biosciences 226L
 - Two courses from the following list: Molecular Biosciences 330, 360K, 361, 366, 339M, 260L, 361L
 6. Biochemistry (4 courses total):
 - Biochemistry 219L
 - Biochemistry 369 or 339F
 - Molecular Biosciences 344
 - One course from the following list: Biochemistry 339M, 339J, 370, 330M.

- c. Secondary science:
 - i. Chemistry 301 or 301C; 302 or 302C; and 204 or 104M and 104N
 - ii. Complete one of the following:
 1. Physics 302K and 105M(recommended)
 2. Physics 317K and 105M
 3. Physics 303K and 105M
 4. Physics 301 and 101L