RANDOLPH-MACON BIOLOGY MAJOR

1. **Biology 121 and 122 (or equivalent), taken in either order, are required of all biology majors.**
2. **Seven additional biology courses must be taken at the 180 level or above. At least one course must be taken from each of the groups below: Cell/Molecular, Organismal, and Evolution/Ecology.**
3. **Biology 399 and a one or two-semester Capstone Course are required of all biology majors.**

Cell/Molecular Group

200 Genetics (4 hr)

201 Cell Biology (4 hr)

311 Microbiology (4 hr)

351 Advanced Cell Biology (4 hr)

352 Research Methods in Cell (4 hr)

353 Molecular Genetics (4 hr)

407-408 Biochemistry I & II (4 hr each)

432 Histology (4 hr)

442 Immunology (4 hr)

Organismal Group

181 Algae, Fungi, & Allies (4 hr)

182 Biology of Plants (4 hr)

202 Plant Taxonomy (4 hr)

203 Non-Vascular Plants (4 hr)

230 Ichthyology (4 hr)

251-252 Human Anat. & Phys. I & II (4 hr each)

309 Animal Behavior (4 hr)

381 Neurobiology (3 hr)

Ecology/Evolution Group

235 Marine Biology (4 hr)

260 Vertebrate Field Biology (4 hr)

301 Plant Ecology (4 hr)

310 Freshwater Ecology (4 hr)

315 Infectious Disease & Public Health (4 hr)

325 Ecology (4 hr)

335 Evolution & Conservation in the Galapagos Islands (4 hr)

480 Evolutionary Biology (4 hr)

Electives

350 Biostatistics (4 hr)
(upper-level elective, but does not fulfill a group)

FYE Course (4 hr)
(with Departmental approval)

Cognate Courses

Chem 121-122 is required of all majors. (Depending on career goals, general physics, organic chemistry and calculus may be necessary.)

Research Courses

399 Capstone Proposal (1 hr)

400 or 487-488 or 496-498 Capstone / Research (3-6 hr)