

| Course Title  | Number  | Typical Sequence   | Credits       | Laboratory | Semester & Year |
|---|---|--|---------------|------------|-----------------|
| <b>Core Sequence</b>  |   |  |               |            |                 |
| Intro Biol: Organisms...  | Bio 220 & 221L  | Fall Freshman Year   | 4             | included   |                 |
| Intro Biol: Molecules, Cells  | Bio 225 & 226L  | Spring Freshman Year   | 4             | included   |                 |
| <b>Integrative &amp; Comparative Biology Requirement (Any one of):</b>  |   |  |               |            |                 |
| Integ. Biol 1: Animals  | Bio 302   | Fall Soph Year   | 4             | included   |                 |
| Integ. Biol 2: Plants   | Bio 304   | Spring Soph Year   | 4             | included   |                 |
| Microbiology  | Bio 306   | Fall/Sp Soph Year  | 4             | included   |                 |
| <b>Molecular/Cellular Biology Requirement (Any one of):</b>   |   |  |               |            |                 |
| Molecular Cell Biology OR Developmental Biology OR Genetic Analysis   | Bio 310 or 420 or 433                                       | Soph or Junior year  | 3             |            |                 |
| <b>Population Processes Requirement (Any one of):</b>   |   |  |               |            |                 |
| Evolution of Organisms, Conservation Biology, Plant Systematics, P&C Ecology, Aq. Ecology, Wetland Ecosystems | Bio 312, 318, 412, 417, 426, or 427; possibly other courses | Soph or Junior year  | 3             |            |                 |
| <b>Required 400 level laboratory (may be with a course above or another 400-level class)</b>                  |   |  |               |            |                 |
|   |   |  | 1             |            |                 |
| <b>Required Seminar course (usually Bio 460; some others meet seminar requirements)</b>                       |   |  |               |            |                 |
|   | Bio 460 (or other)  |  | 3             |            |                 |
| <b>To the reach the required 37 credits in Biology, add electives (may include research)</b>                  |   |  |               |            |                 |
| <i>(Includes nearly any 300-400 level Biology course--check course descriptions for application to major)</i> |   |  |               |            |                 |
|   |   |  |               |            |                 |
|   |   |  |               |            |                 |
|   |   |  |               |            |                 |
|   |   |  |               |            |                 |
| Freshman Research   | Bio 201   | Usually Sprng Freshman                                       | 1             |            |                 |
| Research in Biology (1 <sup>st</sup> 3 credits count for major)   | Bio 403 (or 303)  | Any time (total up to 3 towards major, 6 towards graduation) |               |            |                 |
| Honors in Biology   | Bio 495 & 496   | Normally F & Sp, Sr Yr                                       | ( 3 + 3 = 6 ) |            |                 |
|   |   |  |               |            |                 |
| <b>Summer non-WM Field Courses and/or biology Study Abroad Credits:</b>                                       |   |  |               |            |                 |
| <i>(With a petition, these may count toward your 37 biology credits &amp; toward other requirements.</i>      |   |  |               |            |                 |
| <i>For appropriate courses, it's not hard, but you need pre-approval from the Biology Department</i>          |   |  |               |            |                 |
| <i>AND a Petition to the Committee on Degrees. The Biology Department endorses appropriate courses.</i>       |   |  |               |            |                 |

|   |   |                        |   |                  |
|---|---|------------------------|---|------------------|
| <i>Talk or email the Dept. Chair or Study Abroad Coordinator in Biology to learn the process and check on courses.</i>  |   |                        |   |                  |
| <i>Under usual circumstances, the maximum approved toward a biology major or minor is 8 credits.)</i>   |   |                        |   |                  |
|   |   |                        |   |                  |
|   |   |                        |   |                  |
|   |   |                        |   |                  |
| <b>CHECK: Total Biology Credits at least 37:</b>  |   |                        |   |                  |
| <b>Biology elective credits</b> <i>(these credits will be on your transcript, but not applicable to major or minor)</i>   |   |                        |   |                  |
| Research in Biology   | Bio 403   | Any time               | <b>All credits beyond your 1<sup>st</sup> three</b> |                  |
| Other course(s) in BIOL designated NOT for major or minor credit  |   |                        |   |                  |
|   |   |                        |   |                  |
|   |   |                        |   |                  |
|   |   |                        |   |                  |
| <b>Requirements OUTside of Biology</b>  |   |                        |   |                  |
| <b>Chemistry Sequence</b> <i>(May be taken elsewhere with Chemistry Department preapproval)</i>   |   |                        |   |                  |
| General Chemistry 1 & lab   | Chem 103 & Lab  | Fall, Fr or Soph       | 4   | Lab Required     |
| Organic Chemistry 1 & lab   | Chem 206 & Lab  | Spring, Fr or Soph     | 4   | Lab Required     |
| Calculus 1  | Math 131 or 111   | Fall or Sp, Fr or Soph | 4   |                  |
| Second Quantitative Class (Bio 327 or 425 can count in 37 credits of Bio Major)   | Math 132 , 112 <b>(or Bio 327 or 425) &amp; some others</b> | various                | 3 or 4  |                  |
|   |   |                        |   |                  |
| <b>Not required for Biology Major, but may be for professional programs</b>   |   |                        |   |                  |
| Organic Chemistry 2   | Chem 307 & Lab  | various                | 4   | usually required |
| General Chemistry 2   | Chem 308 & Lab  | various                | 4   | usually required |
| Physics I (PHYS 101 is OK)  | Phys 107 & Lab  | various                | 4   | usually required |
| Physics II (PHYS 102 is OK)   | Phys 108 & Lab  | various                | 4   | usually required |
|   |   |                        |   |                  |
| <b>ADDITIONAL COURSES OR NOTES:</b>   |   |                        |   |                  |
| Study abroad doesn't always need a petition to the committee on degrees for biology credit if it is a clear match to  |   |                        |   |                  |
| a required course or is sufficiently biological to count as elective credits for Bio 404.   |   |                        |   |                  |
| <a href="http://www.wm.edu/offices/reescenter/studyabroad/policies/academic/index.php">http://www.wm.edu/offices/reescenter/studyabroad/policies/academic/index.php</a> |   |                        |   |                  |
| Students must still take one integrative course with a lab - but may choose to take a second w/o a lab.   |   |                        |   |                  |
| The required lab can be with a 400-level course above or another 400 level lab  |   |                        |   |                  |