**Graduation Check-off for a Major in Biology (B. A.) and pre-Vet requirements\* (U of MN)**

**Courses Required of all Biology Majors:**

\_\_ BIOL 1710 Foundations of Biology I: Exploring Unity & Diversity of Life\* (4 cr)

\_\_ BIOL 1720 Foundations of Biology II: From Molecules to Bodies – Structure, Function and Regulation\* (4 cr)

\_\_ BIOL 2710 Foundations of Biology III: Evolution, Ecology & Behavior\* (4 cr)

\_\_ BIOL 2720 Sophomore Seminar (2 cr Writing Intensive w/BIOL 4850)

\_\_ BIOL 4850: Senior Seminar (2 cr) (Writing Intensive w/BIOL 2720)

\_\_ BIOL 4602: Internship **or** BIOL 4912: Research (2 cr required, may take for 4)

**18 additional credits in Biology at the 3000 or 4000 level, including:**

at least three 4-credit laboratory/field courses (one must be field)

at least 4 credits at the 4000 level

3000 level Laboratory Courses (12 cr total):

\_\_ BIOL 3210: Biology of Microorganisms\*

\_\_ BIOL 3444: Genetics\*

and

\_\_ BIOL 3120: Comparative Vertebrate Anatomy *or*

\_\_ BIOL 3140: Comparative Vertebrate Physiology *or*

\_\_ BIOL 3200: Animal Behavior *or*

\_\_ your choice \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4000 level Field Courses (4 cr):

\_\_ BIOL 4504: Advanced Contemporary Biology with lab (must be F):

3000/4000 level 2- credit courses (2 cr):

\_\_ BIOL 3502: Contemporary Biology:

\_\_ BIOL 4502: Advanced Contemporary Biology:

 Or an additional 4 credit course (includes 2 elective credits)

**Required Supporting Courses for the Biology Major:**

\_\_ CHEM 1110: General Chemistry I\*

\_\_ CHEM 1120: General Chemistry II\*

\_\_ CHEM 2010: Organic Chemistry I\*

\_\_ Statistics (STAT 1090, PSYC 1090, or ECON 1080) ***or*** Calculus (Math 1130)\*

**Additional Requirements for Vet School:**

\_\_ CHEM 2020: Organic Chemistry II\* (prereq for Biochemistry)

\_\_ CHEM 3400 or 4400: Biochemistry\*

\_\_ PHYS 1110,1120: Introductory Physics I, II (or PHYS1080,1090: Physics for the Health Sciences)\*

\_\_ Relevant experience with animals and in a vet clinic

**Additional Graduation Requirements:**

Liberal Arts Core:

**\_\_** CORE 1000: The Reflective Woman

\_\_ CORE 3990: The Global Search for Justice

**\_\_** EXSS 1100Women’s Fitness and Wellness (2 credits)

\_\_ Fine Arts

\_\_ Literature

\_\_ History

\_\_ Social Science (Economics, Geography Political Science, Psychology, Sociology)

 X Mathematics or Statistics

 X Scientific Reasoning and Discovery

\_\_ Philosophy

\_\_ Theology

\_\_ 2nd Theology or Philosophy

\_\_ Foreign Language (*proficiency through third semester level - Intermediate I)*

\_\_ Critical Studies of Race and Ethnicity or Women’s Studies

 (*may be cross-listed*)

Writing Proficiency: Writing Intensive Courses

(In addition to TRW, GSJ, Sophomore/Senior Seminar)

\_\_ a 4th writing intensive course:

**Total Number of Credits Required = 130 credits minimum**

**\*pre-vet requirement are starred**