BIOLOGY MAJOR CHECKLIST – 2008-2012 Undergraduate Catalogs

1. BIOLOGY (39 hours)

   A. Core Requirements (these provide 22 hours of the total of 39 hours required for the major):
      
      BIOL 1403    Biology I* (Fall only)
      BIOL 1404    Biology II* (Spring only) (Pre-req: BIOL 1403)
      BIOL 3416    Genetics* (Fall & Spring) (Pre-req: BIOL 1403)
      BIOL 3320    Cell Biology (Fall & Spring) (Pre-req: BIOL 1403, 1404, 3416, Jr. standing)
      BIOL 3120    Cell Biology Lab (Fall, Spring, Summer II) (Pre-req or Co-req: BIOL 3320)
      BIOL 3309    Principles of Ecology (Fall & Spring) (Pre-req: BIOL 1404)
      BIOL 4305    Organic Evolution* (Fall & Spring) (Pre-req: BIOL 3416)

   B. Electives: An additional 17 hours of JR/SR, 3000-4000, level Biological Sciences courses (prefixes BIOL, BOT, MBIO, ZOOL) as needed to bring the total of Biological Sciences coursework to the 39 hour minimum.
      
      No more than 6 hours of undergraduate research credit may be counted toward any major in the department.

      Students may choose their electives freely to meet their own individual educational and professional goals.

      MBIO 3400 may NOT be used as an elective for a degree in Biology.

      * designates Writing Intensive -- at least 6 hours must be taken in the major at TTU -- cannot be transferred. A number of other JR/SR level elective courses not listed above also provide Writing Intensive credit.

ADJUNCT REQUIREMENTS (Courses required for the Biology degree, but taught in other departments)

2. CHEMISTRY (16 hours)

   CHEM 1307    Principles of Chemistry I (Pre-req: CHEM 1301 or Passing score on Chem. Placement Exam)
   CHEM 1107    Principles of Chemistry Lab I
   CHEM 1308    Principles of Chemistry II
   CHEM 1108    Principles of Chemistry Lab II
   CHEM 3305    Organic Chemistry I
   CHEM 3105    Organic Chemistry Lab I
   CHEM 3306    Organic Chemistry II
   CHEM 3106    Organic Chemistry Lab II

3. PHYSICS (8 hours)

   PHYS 1403    General Physics I (Pre-requisite MATH 1321 or 1550 or other trig-based math)
   PHYS 1404    General Physics II

4. MATHEMATICS (3 hours)

   MATH 1351 (Calculus) or MATH 2300 (Statistics)

   Choosing a Minor: Every student in the College of Arts & Sciences (this includes all Biological Sciences majors) must have a minor. Although most Biological Sciences majors choose to minor in Chemistry, it is quite acceptable to minor in a subject other than Chemistry. To minor in Chemistry, consult the Chemistry advisor (in Chemistry Room 109) about additional chemistry courses to complete a CHEM minor.

   NOTE: All grades in the major, minor, and adjunct requirements must be a "C" or higher.