SUGGESTED COURSE SEQUENCING FOR ESU’s B.S. IN BIOLOGICAL SCIENCES, ECOLOGY & BIODIVERSITY CONCENTRATION

This is a potential 4-year schedule for a Biology major, Ecology & Biodiversity concentration, just entering ESU, that ensures completion of the general education and biology requirements with the 124 hours required to graduate, including 45 hours numbered 300 or above (semester credit hours in parentheses). Note that “Upper Division Electives in Biology” must cover each of three EB sub-areas of aquatic, terrestrial, and applied ecology (see EB Concentration summary sheet); at least 2 other hours of “Elective” must be ≥ 300-level classes to sum to the university graduation requirement of ≥ 45 hours of upper division courses. Note on the EB Concentration summary sheet that two options each are listed for the “upper division animal survey course” and “statistics” requirements.

Semester 1 (15-17 hours)
GB140/141 Principles of Biology/Lab (4)
CH123/124 Chemistry I/Lab (5)
EG101 Composition I (3)
Math General Education course (MA110 or MA165) (3-5)

Semester 2 (15 hours)
BO212/213 or ZO214/215 (4)
CH126/127 Chemistry II/Lab (5)
EG102 Composition II (3)

Semester 3 (17 hrs)
BO212/213 or ZO214/215 (4)
MC316/317 Microbiology/Lab (4)
General Education course (3)
One other Gen. Ed. course (3)
Elective (3)

Semester 4 (17 hrs)
EB480 Ecology (3)
EB481 Field Ecology (2)
Statistics I (3)
General Education course (3)
Elective (3)

Semester 5 (14-15 hrs)
GB425 Genetics (3)
PH140/141 College Physics I/Lab (5)
General Education course (3)
Upper Division Elective in Biology (3-4)

Semester 6 (15 hrs)
ZO556/557 Natural Hist. Verts./Lab (4)
BO542/543 Plant Taxonomy/Lab (4)
General Education course (3)
Upper Division Elective in Biology (4)

Semester 7 (16-18 hrs)
EB409PB Ecology & Biodiversity Project (2)
GB725 Evolution or other Elective (3)
General Education course (1-3)
Upper Division Elective in Biology (4)
Upper Division Elective in Biology (4)

Semester 8 (15 hrs)
GB480 Senior Experience in Biology (1)
General Education course (3)
Upper Division Elective in Biology (4)
Elective (4)
Elective (3)

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