

Honors:Earth Science (ZESC)

ZESC-121. Honors: Introduction To Earth Science. 3 Hours.

See course description for ESCI-121. Contains further components required of Honors Program students.

Prerequisite: MATH-092 with a minimum grade of C or MATH-102 with a minimum grade of C or NEIU Math Placement Score with a score of 3 or ACT Math with a score of 22 or ACT Math with a score of 23 or ACT Math with a score of 24.

ZESC-306. Honors: Rocks & Minerals. 4 Hours.

See course description for ESCI-306. Contains further components required of Honors Program students.

Prerequisite: ESCI-211 with a minimum grade of D.

ZESC-315. Honors: Glacial Geology. 4 Hours.

See course description for ESCI-315. Contains further components required of Honors Program students.

Prerequisite: ESCI-121 with a minimum grade of C or ESCI-211 with a minimum grade of C.

ZESC-337. Honors: Principles Of Hydrogeology. 4 Hours.

See course description for ESCI-337. Contains further components required of Honors Program students.

Prerequisites: ESCI-211 and (MATH-185 or MATH-106 or NEIU Math Placement Result 35 - 45 or ACT Math 25 - 36 or Accuplacer College Level Math 031 - 120 or SAT Math 580 - 800 or Accuplacer Adv. Algebra & Func 250 - 300).

ZESC-341. Honors:Environmental Hydrology. 4 Hours.

The course introduces surface water hydrology, emphasizing applications in urban and agricultural environments of the glaciated Midwest. The course includes basic principles of the processes, interrelationships, and measurement of precipitation, infiltration, evaporation, evapotranspiration, interflow, overland flow, stream flow, and ground water flow. Also covered are an introduction to quantification of watershed hydrologic budgets, hydrographs, flood routing, hydraulic drainage and control structures, and estimation of extreme events. Lecture 2 hrs., laboratory 3 hrs.

Prerequisite: ESCI-211 with a minimum grade of C and MATH-185 with a minimum grade of C.