

GEOL - GEOLOGY

GEOL 1101 Earth Sciences for Non-Science Majors I Laboratory 1 Credit Hour (3 Lab)

This laboratory-based course accompanies GEOL 1301, Earth Sciences for Non-Science Majors I. Activities will cover methods used to collect and analyze data in geology, meteorology, oceanography, and astronomy. Prerequisite: College ready in Reading and Writing. TSIA Math Score of 336 or higher or a grade of "C" or better in MATH 0374 or MATH 0372 or TSIA-2 Math Score of 936.

GEOL 1103 Physical Geology Laboratory 1 Credit Hour (3 Lab)

This laboratory-based course accompanies GEOL 1303, Physical Geology. Laboratory activities will cover methods used to collect and analyze earth science data. Prerequisite: College ready in Reading, Writing and Mathematics. Concurrent enrollment or credit for MATH 1314 is strongly recommended.

Prerequisite: ((Writing-College Ready with a minimum score of 1300, Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, Math-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, MATH 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, MATH 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher, MATH 314 with a grade of C_DV or higher, INRW 376 with a grade of C_DV or higher, and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher, MATH 324 with a grade of C_DV or higher, INRW 376 with a grade of C_DV or higher, and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, TSIA2 ELAR CRC with a minimum score of 945, TSIA2 Essay with a minimum score of 5, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, TSIA2 Essay with a minimum score of 5, TSIA2 ELAR Diagnostic with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, TSIA2 ELAR CRC with a minimum score of 945, TSIA2 Essay with a minimum score of 5, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR Diagnostic with a minimum score of 5, TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher, MATH 314 with a grade of P_DV or higher, INRW 376 with a grade of P_DV or higher, and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher, MATH 324 with a grade of P_DV or higher, INRW 376 with a grade of P_DV or higher, and INRW 376 with a grade of P_DV or higher))

GEOL 1104 Historical Geology Laboratory 1 Credit Hour (3 Lab)

This laboratory-based course accompanies GEOL 1304, Historical Geology. Laboratory activities will introduce methods used by scientists to interpret the history of life and major events in the physical development of Earth from rocks and fossils. Prerequisite: College ready in Reading, Writing and Mathematics. Concurrent enrollment or credit for MATH 1314 is strongly recommended

Prerequisite: ((Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher))

GEOL 1105 Environmental Science Laboratory 1 Credit Hour (3 Lab)

This laboratory-based course accompanies GEOL 1305, Environmental Science. Activities will cover methods used to collect and analyze environmental data. Prerequisite: College ready in Reading, Writing and Mathematics. Concurrent enrollment or credit for MATH 1314 is strongly recommended.

Prerequisite: ((Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher, MATH 314 with a grade of P_DV or higher, INRW 376 with a grade of P_DV or higher, and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher))

GEOL 1301 Earth Sciences for Non-Science Majors I 3 Credit Hours (3 Lec)

Survey of geology, meteorology, oceanography, and astronomy.

Prerequisite: College ready in Reading and Writing. TSI Math score of 336 or higher or a grade of "C" or better in MATH 0374 or MATH 0372 or TSIA-2 Math Score of 936.

Course Type: Life Physical Sci - A CAPP

Prerequisite: ((Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher)); ((Reading-College Ready with a minimum score of 1300, TSI Mathematics with a minimum score of 310, and Writing-College Ready with a minimum score of 1300), (Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and TSIA2 Math CRC with a minimum score of 910), (Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and MATH 374 with a grade of C_DV or higher), (MATH 374 with a grade of P_DV or higher, Writing-College Ready with a minimum score of 1300, and Reading-College Ready with a minimum score of 1300), (INRW 376 with a grade of C_DV or higher and MATH 374 with a grade of C_DV or higher), (INRW 376 with a grade of P_DV or higher and MATH 374 with a grade of P_DV or higher), (INRW 376 with a grade of C_DV or higher and TSI Mathematics with a minimum score of 310), (INRW 376 with a grade of C_DV or higher and TSIA2 Math CRC with a minimum score of 910), or (Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300))

GEOL 1303 Physical Geology 3 Credit Hours (3 Lec)

Introduction to the study of the materials and processes that have modified and shaped the surface and interior of Earth over time. These processes are described by theories based on experimental data and geologic data gathered from field observations. Prerequisite: College ready in Reading, Writing and Mathematics. Concurrent enrollment or credit for MATH 1314 is strongly recommended.

Course Type: Life Physical Sci - A CAPP

Prerequisite: ((Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher))

GEOL 1304 Historical Geology 3 Credit Hours (3 Lec)

A comprehensive survey of the history of life and major events in the physical development of Earth as interpreted from rocks and fossils.

Prerequisite: College ready in Reading, Writing and Mathematics.

Concurrent enrollment or credit for MATH 1314 is strongly recommended.

Course Type: Life Physical Sci - A CAPP

GEOL 1305 Environmental Science 3 Credit Hours (3 Lec)

A survey of the forces, including humans, that shape our physical and biologic environment, and how they affect life on Earth. Introduction to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources. Prerequisite: College ready in Reading, Writing and Mathematics. Concurrent enrollment or credit for MATH 1314 is strongly recommended.

Course Type: Life Physical Sci - A CAPP

Prerequisite: GEOL 1403; (GEOL 1401, GEOL 1403, (GEOL 1301 and GEOL 1101), or (GEOL 1303 and GEOL 1103)); ((Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher))

GEOL 1401 Earth Sciences I 4 Credit Hours (3 Lec, 3 Lab)

This course is the same as PHYS 1417 and is a survey of the natural processes at work in the atmosphere, lithosphere, hydrosphere and biosphere of Earth. It is designed to give the student an introduction to astronomy, geology, oceanography and meteorology. It is required for elementary education certification for students transferring to TAMU. It may also fulfill four of the eight or 12 hours of science requirements for some degree plans (check with your advisor and/or college of transfer). It is not for students majoring or minoring in science. This course is also listed as PHYS 1417. Fall and Spring. Prerequisites: 12th grade reading level and eligibility for ENGL 1301 and MATH 1314.

Prerequisite: (Writing-College Ready with a minimum score of 1300, ENGL 373 with a grade of C_DV or higher, TCOMP--Writing Sample (Essay) with a minimum score of 6, THEA--Writing (Objective) with a minimum score of 220, TASP--Writing (Objective) with a minimum score of 220, TCOMP--Reading with a minimum score of 81, (TAKS--ELA (Exit Level) with a minimum score of 2200 and TAKS--Essay (Exit Level) with a minimum score of 3), ENGL 373 with a grade of P_DV or higher, ENGL 376 with a grade of C_DV or higher, or ENGL 376 with a grade of P_DV or higher); ((Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher)); (Math-College Ready with a minimum score of 1300, MATH 376 with a grade of C_DV or higher, TCOMP--Math (Algebra) with a minimum score of 39, THEA--Math with a minimum score of 230, TASP--Math with a minimum score of 230, TAKS--Math (Exit Level) with a minimum score of 2200, or MATH 376 with a grade of P_DV or higher); (Reading-College Ready with a minimum score of 1300, READ 375 with a grade of C_DV or higher, TCOMP--Reading with a minimum score of 81, TASP--Reading with a minimum score of 230, (TAKS--ELA (Exit Level) with a minimum score of 2200 and TAKS--Essay (Exit Level) with a minimum score of 3), READ 375 with a grade of P_DV or higher, READ 376 with a grade of C_DV or higher, or READ 376 with a grade of P_DV or higher)

GEOL 1403 Physical Geology 4 Credit Hours (3 Lec, 3 Lab)

This course covers basic principles of geology: earth materials, structure, land forms, mineral and fuel resources; earth processes including plate tectonics, volcanism, earthquakes, weathering, erosion, and deformation. Laboratory work includes study of common rocks and minerals, and topographic maps. Prerequisites: 12th grade reading level and eligibility for ENGL 1301 and MATH 1314.

Prerequisite: (Writing-College Ready with a minimum score of 1300, ENGL 373 with a grade of C_DV or higher, TCOMP--Writing Sample (Essay) with a minimum score of 6, THEA--Writing (Objective) with a minimum score of 220, TASP--Writing (Objective) with a minimum score of 220, TCOMP--Reading with a minimum score of 81, (TAKS--ELA (Exit Level) with a minimum score of 2200 and TAKS--Essay (Exit Level) with a minimum score of 3), ENGL 373 with a grade of P_DV or higher, ENGL 376 with a grade of C_DV or higher, or ENGL 376 with a grade of P_DV or higher); ((Writing-College Ready with a minimum score of 1300, Reading-College Ready with a minimum score of 1300, and Math-College Ready with a minimum score of 1300), (ENGL 376 with a grade of C_DV or higher, READ 376 with a grade of C_DV or higher, and MATH 376 with a grade of C_DV or higher), (ENGL 376 with a grade of P_DV or higher, READ 376 with a grade of P_DV or higher, and MATH 376 with a grade of P_DV or higher), (MATH 314 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (MATH 324 with a grade of C_DV or higher and INRW 376 with a grade of C_DV or higher), (TSIA2 Math CRC with a minimum score of 950, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math CRC with a minimum score of 950, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 ELAR CRC with a minimum score of 945, and TSIA2 Essay with a minimum score of 5), (TSIA2 Math Diagnostic with a minimum score of 6, TSIA2 Essay with a minimum score of 5, and TSIA2 ELAR Diagnostic with a minimum score of 5), (MATH 314 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher), or (MATH 324 with a grade of P_DV or higher and INRW 376 with a grade of P_DV or higher)); (Math-College Ready with a minimum score of 1300, MATH 376 with a grade of C_DV or higher, TCOMP--Math (Algebra) with a minimum score of 39, THEA--Math with a minimum score of 230, TASP--Math with a minimum score of 230, TAKS--Math (Exit Level) with a minimum score of 2200, or MATH 376 with a grade of P_DV or higher); (Reading-College Ready with a minimum score of 1300, READ 375 with a grade of C_DV or higher, TCOMP--Reading with a minimum score of 81, TASP--Reading with a minimum score of 230, (TAKS--ELA (Exit Level) with a minimum score of 2200 and TAKS--Essay (Exit Level) with a minimum score of 3), READ 375 with a grade of P_DV or higher, READ 376 with a grade of C_DV or higher, or READ 376 with a grade of P_DV or higher)

GEOL 1404 Historical Geology 4 Credit Hours (3 Lec, 3 Lab)

This course is an introduction to the geological history of the earth, geologic time, relative and absolute dating methods, stratigraphic principles, the origin of life, changes on the earth's surface and development of organisms through geologic time. Laboratory work includes interpretation of the fossil record and geologic maps.

Prerequisites: 12th grade reading level and eligibility for ENGL 1301 and MATH 1314.

Prerequisite: GEOL 1403

GEOL 1405 Environmental Geology 4 Credit Hours (3 Lec, 3 Lab)

The earth as a habitat. Interrelationships between humans and the environment. Geologic factors in urban and regional land use planning.

GEOL 2389 Academic Cooperative in Geology 3 Credit Hours (1 Lec, 6 Lab)

An instructional program designed to integrate on-campus study with practical hands-on work experience in the physical sciences. In conjunction with class seminars, the individual students will set specific goals and objectives in the scientific study of inanimate objects, processes of matter and energy, and associated phenomena. Prerequisite: GEOL 1301 and GEOL 1101, or GEOL 1401; or GEOL 1303 and GEOL 1103, or GEOL 1403.

Prerequisite: (GEOL 1401, GEOL 1403, (GEOL 1301 and GEOL 1101), or (GEOL 1303 and GEOL 1103))