



GEOLOGY

Associate in Science Degree for Transfer

Geology is an exciting and challenging major for students with broad scientific interests and a love for natural systems, our environment, and our planet's history. Geology is a multi-disciplinary science that applies chemistry, biology, physics, oceanography, mathematics, and engineering to the natural world around us. The rich variety of its fields of study includes oceanography, paleontology, geophysics, hydrogeology, geochemistry, engineering geology, environmental geology and more. Geology majors apply their skills and knowledge to solve complex problems related to human interaction with natural systems, hazards and resources, and to communicate these solutions and options to the public. *For more information, contact: Thomas O'Neil (805) 678-5076 toneil@vcccd.edu*

Required Core Courses		Units
GEOL R101	Physical Geology	3.0
-and-		
GEOL R101L	Physical Geology Lab <i>*Prerequisite: GEOL R101 or concurrent enrollment</i>	1.0
GEOL R114	Historical Geology <i>**Advisories: GEOL R101</i>	3.0
-and-		
GEOL R114L	Historical Geology Lab <i>*Prerequisites: GEOL R114 or concurrent enrollment</i>	1.0
CHEM R120	General Chemistry I <i>*Prerequisites: CHEM R110 and MATH R015 or MATH R005 or MATH R014 or MATH R033 or placement as determined by the college's multiple measures assessment process</i>	5.0
CHEM R122	General Chemistry II <i>*Prerequisites: CHEM R120</i>	5.0
MATH R120	Calculus with Analytic Geometry <i>*Prerequisites: MATH R115 or MATH R116 or MATH R117 or placement as determined by the college's multiple measures assessment process</i>	5.0
MATH R121	Calculus with Analytic Geometry II <i>*Prerequisites: MATH R120</i>	5.0
Total Required Major Units		28
CSU General Education <i>or</i> IGETC Pattern		37-39
Double-Counted Units		-(7)
Electives (CSU Transferable units needed to reach 60)		+ 1
Total units required for the AST Degree		60.0