

**GEOLOGY ADT TO CSU EAST BAY GEOLOGY B.S.**

ADT B.S. GEOLOGY – 60 Sem. Units	Sem. Units	Community College Courses
<b>CSUGE or IGETC</b>	<b>39</b>	<i>CSU general education certification requires completion of all requirements in Areas A through E, approximately 39 units</i>
<b>AREA D REQUIREMENT:</b> <a href="#">US History, Constitution &amp; American Ideals Code Requirement</a>	3-9	<b>US-1:</b> <b>US-2:</b> <b>US-3:</b>
<a href="#">Diversity/Social Justice/Sustainability</a> <i>Can be fulfilled in area C or D</i>	3-9	<b>DIV:</b> <b>SJ:</b> <b>SUS:</b>
<b>Second Composition (Comp II) Can be fulfilled with A3</b> Any Composition course with ENGL 100 as a prerequisite	3	
<i>The following areas are for the CID TMC/Courses and matching Community College Courses</i>		
<b>Major Core (C-ID)</b>	<b>26</b>	<b>Community College Courses</b>
GEOL 101 - Physical Geology with Lab (4)	<b>4</b>	
GEOL 111 - Historical Geology with Lab (4)	<b>4</b>	
CHEM 120S - General Chemistry for Science Majors Sequence A (10)	<b>10</b>	
MATH 210 - Single Variable Calculus I – Early Transcendentals (4)	<b>4</b>	
MATH 220 - Single Variable Calculus II – Early Transcendentals (4)	<b>4</b>	
<b>Total Units ADT GEOLOGY</b>	<b>60</b>	

**PLEASE NOTE: This page assumes Semester Units.**

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<b>CSUEB: B.S. GEOLOGY</b> <i>Complete Degree in 60 Semester Units</i>	<b>Semester UNITS</b>	<b>NOTES</b>
<b>GRADUATION REQUIREMENTS</b> <i>These should be fulfilled at the Community College, however if not taken at the Community College, they must be completed at CSU East Bay</i>		
<b>US History, Constitution &amp; American Ideals</b>	<b>0-9</b>	
1) First Category US-1	0-3	
2) Second Category US-2	0-3	
3) Third Category US-3	0-3	
<b>These courses must be taken at CSU East Bay</b>		
<b>Upper Division GE</b> <i>See catalog</i>	<b>9</b>	<b>CSUEB COURSES</b>
Please note: A minimum of three courses in the Upper Division General Education pattern must have a topic/learning outcome oriented toward one of the following topic areas (overlays): <b>Diversity, Social Justice, or Sustainability.</b>		
Area B6 Upper Division Science course	3	<b>Course:</b> <b>OVERLAY:</b>
Area C4 Upper Division Humanities course	3	<b>Course:</b> <b>OVERLAY:</b>
Area D4 Upper Division Social Sciences course	3	<b>Course:</b> <b>OVERLAY:</b>
<b>Lower Division Core</b>	<b>1</b>	
GEOL 297 - Introductory Field Experience Units: 1	1	
GEOL 260 - Introduction to GIS in Earth and Environmental Sciences 3		G.E./G.R. Area: B1, B3, <b>*Can be completed at CCC: C-ID GEOG 155</b>
PHYS 125 - Principles of Physics I 4		G.E./G.R. Area: B1, B3, <b>*Can be completed at CCC: C-ID PHYS 105</b>
PHYS 126 - Principles of Physics II 4		G.E./G.R. Area: B1, B3, <b>*Can be completed at CCC: C-ID PHYS 110</b>
<b>Upper Division Core</b>	<b>24</b>	
GEOL 360 - Mineralogy and Optical Crystallography 4	4	
GEOL 361 - Igneous and Metamorphic Petrology Units: 4	4	
GEOL 371 - Sedimentary Geology and Stratigraphy 4	4	
GEOL 381 - Structural Geology Units: 5	5	
GEOL 397 - Advanced Field Experience Units: 2 (course will be taken twice for a total of 4 units, but with different subject matter.)	4	
GEOL 499 - Capstone Seminar in Geosciences Units: 3	3	
<b>Electives</b> <i>A minimum of 12 units of elective courses are required as outlined below:</i>	<b>12+</b>	
<b>One (1) of the following Quantitative courses is required for 3 units:</b>		
CS 400 - Computer Programming for Science Units: 3		
CMGT 310 - Statics and Strength of Materials Units: 3		
MATH 131 - Calculus II Units: 3		<b>*Can be completed at CCC: C-ID MATH 220</b>
PHYS 330 - Analytic Mechanics Units: 3		
STAT 315 - Exploring and Analyzing Data Units: 3		

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STAT 316 - Statistics and Probability for Science and Engineering Units: 3		
STAT 320 - Introduction to Probability Theory I Units: 3		
<b>Plus choose a minimum of 9 units of electives from the following * :</b>		
ENSC 350 - Environmental Hydrology Units: 4 ;		G.E./G.R. Area: Sustainability
GEOL 311 - Geomorphology Units: 3		
GEOL 398 - Internship Units: 1-3		
ENSC 410 - Geohealth Units: 3		
GEOL 431 - Applied Geophysics Units: 4		
GEOL 432 - Hydrogeology Units: 4		
GEOL 441 - Earthquake Geology Units: 3		
GEOL 460 - Geographic Information Systems for Earth and Environmental Sciences Units: 4		
GEOL 490 - Independent Study Units: 1-3		
GEOL 497 - Issues in Geosciences Units: 3		
<b>*Only one (1) course from the following may apply to the above elective units:</b>		
GEOL 341 - General Oceanography Units: 4		
GEOL 342 - Planetary Geology Units: 3		
GEOL 343 - Atmospheric Science Units: 3		
<b>ADDITIONAL COURSE to reach 60 Units</b>	<b>14</b>	<i>These courses may be additional Major Courses or prerequisites not taken at the Community College</i>
<i>If needed</i>		
<b>Total Semester Units at CSUEB</b>	<b>60</b>	<b>60</b>

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**TENTATIVE ROADMAP: PLEASE SEE YOUR MAJOR ADVISOR**

<b>FIRST SEMESTER JUNIOR YEAR</b>			
<b>Register to take the University Writing Skills Requirement</b>			
UDGE B6	COURSE:	OVERLAY:	3
LD Major	GEOL 297	Introductory Field Experience	1
UD Major	GEOL 360	Mineralogy and Optical Crystallography	4
Elective			3
Elective			3
		<b>TOTAL:</b>	<b>14</b>
<b>SECOND SEMESTER JUNIOR YEAR</b>			
<b>TAKE THE UNIVERSITY WRITING SKILLS TEST</b>			
UDGE D4	COURSE:	OVERLAY:	3
UD Major	GEOL 361	Igneous & Metamorphic Petrology	4
UD Major	GEOL 371	Sedimentary Geology and Stratigraphy	4
UD Major Elect	STAT/MATH/GEOL/CS/PHYS*	UD Quantitative skills elective	3
Elective			2
		<b>TOTAL:</b>	<b>16</b>
<b>THIRD SEMESTER SENIOR YEAR</b>			
<b>Verify that you have completed the University Writing Skills Requirement. Check your MyCSUEB "Degree Audit Report" (DAR) and email any discrepancies to The ADT ADVISER.</b>			
UDGE C4	COURSE:	OVERLAY:	3
UD Major	GEOL 381	Structural Geology	5
UD Major	GEOL 397	Advanced Field Experience	2
UD Major Elect			3
Elective			3
		<b>TOTAL:</b>	<b>16</b>
<b>FOURTH SEMESTER SENIOR YEAR</b>			
<b>See the ADT ADVISER and apply for graduation through MyCSUEB by the posted deadline, available at Important Dates</b>			
UD Major	GEOL 499	Capstone Seminar in Geosciences	3
UD Major	GEOL 397	Advanced Field Experience	2
UD Major Elect			3
UD Major Elect			3
Elective			3
		<b>TOTAL:</b>	<b>14</b>
<b>GRAND TOTAL:</b>			<b>60</b>