

TEXAS A&M UNIVERSITY-CORPUS CHRISTI

Curriculum Sheet for 2020-2021 Catalog

Degree: **Bachelor of Science**
 Major: **Geology**
 Concentration: **Environmental Geology**

UNIVERSITY CORE CURRICULUM

		<u>HOURS</u>	<u>PREREQUISITES</u>
_____	COMM 1311	Foundations of Communications	<u>3</u> or ENGL 1301
_____	ENGL 1302	Writing and Rhetoric	<u>3</u>
_____	See Catalog	Mathematics	<u>3</u>
_____	See Catalog	Life and Physical Sciences	<u>6</u>
_____	See Catalog	Language, Philosophy, or Culture	<u>3</u>
_____	See Catalog	Creative Arts	<u>3</u>
_____	HIST 1301	US History to 1865	<u>3</u>
_____	HIST 1302	US History since 1865	<u>3</u> or HIST 2301
_____	POLS 2305	US Government and Politics	<u>3</u>
_____	POLS 2306	State and Local Government	<u>3</u>
_____	See Catalog	Social and Behavioral Science	<u>3</u>
_____	See Catalog	Component Area	<u>6</u>

SUPPORTING COURSES - 23 hours

_____	CHEM 1411	General Chemistry I	<u>4</u> MATH 1314 placement or above
_____	CHEM 1412	General Chemistry II	<u>4</u> CHEM 1411
_____	PHYS 1401 or 2425	General Physics I or Univ. Physics I	<u>4</u> MATH 1314 or placement above; MATH 2413
_____	PHYS 1402 or 2426	General Physics II or Univ. Physics II	<u>4</u> PHYS 1401; PHYS 2425 and MATH 2414
_____	MATH 2413	Calculus I	<u>4</u> MATH 1316 or 2312 or placement above
_____	MATH 3342	Applied Probability & Statistics	<u>3</u> MATH 2413

GEOLOGY CORE - 41 hours

_____	GEOL 1403	Physical Geology (FL, SP, SUM)	<u>4</u>	
_____	GEOL 1404	Historical Geology (SP)	<u>4</u>	GEOL 1403
<u>Choose one:</u>	GEOL 2102 or GEOL 2103	Undergrad Seminar in Geology: Career in Geosciences (SP) or Research in Geosciences (FL)	<u>1</u>	
_____	GEOL 3326	Intro to Geological Field Methods (SP)	<u>3</u>	GEOL 1403, GEOL 1404, and GEOL 3411 (may be taken concurrently)
_____	GEOL 3411	Mineralogy (FL)	<u>4</u>	GEOL 1403, CHEM 1411, and CHEM 1412 (may be taken concurrently)
_____	GEOL 3414	Igneous & Metamorphic Petrology (SP)	<u>4</u>	GEOL 1403, CHEM 1411, CHEM 1412, and GEOL 3411
_____	GEOL 4422	Geophysics	<u>3</u>	GEOL 4421, MATH 2413, and PHYS 1402 or 2426
_____	GEOL 4411	Sedimentation & Stratigraphy (SP)	<u>4</u>	GEOL 1403, GEOL 1404, and GEOL 3411
_____	GEOL 4421	Structural Geology (SP)	<u>4</u>	GEOL 3411, MATH 2413, and PHYS 1401 or PHYS 2425
<u>Choose one:</u>	GEOL 4444 or GEOL 4416	Hydrogeology or Geochemistry	<u>4</u>	GEOL 1403, MATH 2413, and PHYS 1401 or PHYS 2425
_____	GEOL 4650	Field Geology (SUM)	<u>6</u>	GEOL 3326, GEOL 3414, GEOL 4411, and GEOL 4421; Jr/Sr

Environmental Geology Track - 29 hours

<u>Required</u>	GEOL 2222	Karst Geology and Paleoclimatology	<u>2</u>	
_____	ESCI 3202	Professional Skills (FL, SP)	<u>2</u>	
_____	ESCI 3351	Oceanography (FL, SP)	<u>3</u>	GEOL 1403 or CHEM 1412 or ESCI 1401
_____	ESCI 4301	Environmental Regulations (FL, SP)	<u>3</u>	POLS 2305 and POLS 2306
_____	ESCI 4330	Oil Spill Prevention and Response	<u>3</u>	
_____	ESCI 4335	Climate and Climate Variability (SP)	<u>3</u>	ESCI 3351 or ESCI 3403
_____	ESCI 4370	Hazardous Waste Ops and ER	<u>3</u>	
_____	GEOL 4321	Intro to Soil and Groundwater Restoration	<u>3</u>	GEOL 1403, CHEM 1411, CHEM 1412, and GEOL 3443
_____	GEOL 4416	Geochemistry	<u>4</u>	CHEM 1411, CHEM 1412, MATH 2413, and GEOL 3411
_____	GEOL 4430	Internship in Geology	<u>Varies</u>	Junior or Senior standing
_____	GEOL 4490	Selected Topics	<u>Varies</u>	Varies
_____	GEOL 4496	Directed Independent Study	<u>Varies</u>	Approval from Faculty, Chair, and Dean
<u>Choose one:</u>	ATSC 4305 or GISC 4431	Remote Sensing	<u>3</u>	PHYS 2426
_____	GISC 1470	Geospatial Systems I (FL, SP)	<u>4</u>	PHYS 2425, MATH 3342, GISC 3300 and MEEN 3310
_____	GISC 2438	Geospatial Software Systems I	<u>3</u>	GISC 1470 and COSC 1435
_____	GISC 3300	Geospatial Mathematical Tech.	<u>3</u>	MATH 2413 and MATH 3342

~Additional hours not listed may be approved by Faculty Mentor.

UNIVERSITY REQUIREMENTS

120 Minimum Total Hours for Degree	2.25	College Minimum Major GPA
45 Minimum Upper Division Total Hours	2.00	Cumulative TAMUCC Minimum GPA
36 Minimum Upper Division in Residency Hours		Foreign Language Requirement (see catalog)
12 Minimum Major Upper Division in Residency Hours	2	First Year Seminar Requirement (UNIV 1101 & 1102)