

# TEXAS A&M UNIVERSITY-CORPUS CHRISTI

## Curriculum Sheet for 2020-2021 Catalog

Degree: **Bachelor of Science**  
 Major: **Geology**  
 Concentration: **Energy Resources**

### UNIVERSITY CORE CURRICULUM

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

### SUPPORTING COURSES - 23 hours

_____	CHEM 1411	General Chemistry I	4	MATH 1314 placement or above
_____	CHEM 1412	General Chemistry II	4	CHEM 1411
_____	PHYS 2425	University Physics I	4	MATH 2413
_____	PHYS 2426	University Physics II	4	PHYS 2425 + MATH 2414
_____	MATH 2413	Calculus I	4	MATH 1316 or 2312 or placement above
_____	MATH 3342	Applied Probability & Statistics	3	MATH 2413

### GEOLOGY CORE - 41 hours

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

### Energy Resources Track - 29 hours

<u>Required</u>	MATH 2414	Calculus II	4	MATH 2413
<u>Required - Choose one:</u>	GEOL 4436 or GEOL 4490	Intro to Petroleum Geology Selected Topics: Geochemical Assessment of Subsea Engineer	4 3	GEOL 4411 (may be taken concurrently), recommended GEOL 4322 and GEOL 4421 CHEM 1412, GEOL 1403 and ESCI 3351
_____	ENGR 3316	Thermodynamics	3	PHYS 2425 and MATH 2414
_____	ENGR 2325	Statics	3	PHYS 2425
_____	ENGR 2326	Dynamics	3	ENGR 2325 and MATH 2414
_____	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

~Engineering pre-requisites and/or 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)