

Typical Curriculum for Bachelor of Science in Geoscience for Hydrogeology

<u>Freshman Year</u>			<u>Sophomore Year</u>		
CLASS	TITLE	CREDIT	CLASS	TITLE	CREDIT
CHEM 105	College Chemistry I	4	CHEM 201*	Organic Chemistry I	4
CHEM 108*	College Chemistry II	4			
ENGL 111 ¹	Intro to College Comp	3	ENGL (need 1)	210*, 220*, 240*, 250*	3
ENGL 112*	Comp & Research	3	GEOL 300*	Crystallography & Min	4
GEOL 105	Physical Geology	3	MATH	Need One	3-4
HYDR 110 ²	Intro to Hydrology	3	MATH 209*	Calculus II	
MATH	Need Two	8	MATH 306*	Differential equations	
MATH 118	Pre-Calculus I		MATH 333*	Calculus III	
MATH 120*	Calculus I		POLS 201*	American National Gov't	3
MATH 209*	Calculus II		POLS 202*	Texas Government	3
HLTH 101	Wellness for Life	2	MATH 300 or 350	Statistics or Biostatistics	3-4
or Activity P Ed			V&PA or S&BS ¹		3
	TOTAL	30	COMS (Need one)	101, 102, 301	3
			TOTAL		29-31

* Denotes courses with prerequisites

¹**English:** Students will be placed into English courses in accordance with the University's Placement and Continuing Enrollment Rules. Students **must** enroll in English during their first semester at Tarleton. Following initial English enrollment, students **must** enroll in English every regular semester thereafter until s/he has successfully completed the freshman-level English sequence [i.e., ENGL 111 and 112].

Mathematics: Students will be placed into mathematics courses in accordance with the University's Placement and Continuing Enrollment Rules. Students **must** enroll in mathematics during their first semester at Tarleton unless they are eligible for placement into college-level mathematics [MATH 107 or higher]. Students eligible for placement into college-level mathematics may choose to postpone initial mathematics enrollment until their second regular semester at Tarleton. Following initial mathematics enrollment, students must enroll in mathematics every regular semester thereafter until the freshman mathematics core curriculum requirement has been satisfied.

V&PA: 3 hours of visual and performing arts. These core curriculum requirements may not be selected from the student's major field. Visual and performing arts course must be historical, appreciative, or theoretical in nature; it may not be an applied or performance course. Courses that meet this requirement are ART 131, 231, 232, 331; FA 101, 135, 160, 401; IT 340; MUSC 213, 313, 324, 325, 326, 327, 328, THEA 105, 207, 208, 404.

S&BS: 3 hours of social and behavioral sciences 5,7 from SOC 101, 201, 303; PSY 101, 201, 301; ECO 101, 201; A EC 105; ARCH 201; ENGR 303; GEO 110, 120, 201; HIST 101, 102. These core curriculum requirements may not be selected from the student's major field. The two courses to fulfill this requirement must be chosen from different academic disciplines.

² HYDR 110 offered in Fall

Junior and Senior Years

CLASS	TITLE	CREDIT
AGRN 301*	Soils	4
CHEM 307	Quantitative Analysis	4
CHEM 408	Instrumental Analysis	4
GEOL 306* (a) ³	Igneous & Metamorphic Petrology	4
GEOL 310* (b) ³	Geomorphology	3
GEOL 313* (b) ³	Stratigraphy & Sedimentology	4
GEOL 314* (b) ³	Geochemistry	3
GEOL 320* (a) ³	Hydrogeology	3
E S 413* (b) ³	Environmental Techniques	3
HYDR 311	GIS in Water Resources	3
GEOL 405* (b) ⁴	Field Geology	3
E S 350* (b) ³	Environmental Science	3
GEOL 412	Structural Methods	3
HIST 201	US History through 1877	3
HIST 202	US History since Reconstruction	3
PHYS 122*,242*	Principles of Phys I, Principles of Phys II	8
V&PA or S&BS ¹		3
	TOTAL	61
	TOTAL PROGRAM HOURS	120-122

* Denotes courses with prerequisites

³ Upper level GEOL and E S classes are typically offered on a two year rotation. Students should be aware of this and take classes as they are offered. (a) courses are typically offered even-odd (e.g. FA 06-SP 07) academic years and (b) courses for odd-even (e.g. FA 07-SP 08) academic years.

⁴ An approved geology field class must be taken during the summer at another university between the jr. and sr.