

2008-2009 Program Advising Guide

Department of Engineering and Physics

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for

Bachelor of Science in Hydrology^{†,c}

Freshman Year			
Fall Semester	Hours	Spring Semester	Hours
ENGL 111 ^a	3	ENGL 112 (ENGL 111) ^a	3
MATH 120 (cMATH 109, or MATH 116) ^b	4	COMS 101/102/301	3
PHYS 122 (cMATH 120)	4	MATH 209 (MATH 120)	4
GEOL 105	3	CHEM 105	4
Total	14	Total	14

Sophomore Year			
Fall Semester	Hours	Spring Semester	Hours
MATH 311 ^d (MATH 209)	3	HIST 201	3
CHEM 108 (CHEM 105)	4	POLS 201	3
HYDR 110	3	MATH 333 (MATH 209)	4
HYDR 211 (cPHYS 122, MATH 120)	4	HYDR 300 (PHYS 122, MATH 209)	4
HYDR 310 ^{c,e} (cMATH 311, HYDR 110, HYDR 211) or Support Class	4	Support Class ^{c,d}	3
Total	18	Total	17

Notes:

- 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 and every regular semester thereafter until the freshman English core curriculum requirement [i.e., ENGL 111 & 112] has been satisfied.
 - 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]. Following initial mathematics enrollment, students must enroll in mathematics every regular semester thereafter until the freshman mathematics core curriculum requirement [MATH 107 or higher] has been satisfied.
 - Support Field Classes:** A support emphasis with required courses completes the Hydrology degree. These upper-level courses are often on two year rotations so the student must work with their advisor to ensure that take courses when offered. The following support emphasis/tracks are available: Geosciences, Engineering, Computer Science, Chemistry, Agriculture, Biology, and Economics.
 - Engineering Support:** Students taking the engineering support field should take their support class ENGR303 in the fall and take MATH311 in the spring.
 - HYDR 310:** Student must take HYDR 310 if offered during sophomore year in order to take HYDR 410, 450 the following year.
- [†] **HYDR 440-1 (Internship)** can be taken in a summer semester

Junior/Senior Year			
Fall Semester (even year)	Hours	Spring Semester (odd year)	Hours
POLS 202	3	HYDR 450 (MATH 333/360, HYDR 300, HYDR 310, HYDR 320)	3
HYDR 320 (MATH 209, CHEM 108, GEOL 105, HYDR 211)	4	HYDR 488 (Junior or adviser approval)	1
HYDR 410 (MATH 333, HYDR 300, HYDR 310)	3	CHEM 201 (CHEM108) or Support Class	4
CHEM 201 (CHEM108) or Support Class	4	Support Class	4
Support Class	4	Support Class	3
Total	18	Total	15

Junior/Senior Year			
Fall Semester (odd year)	Hours	Spring Semester (even year)	Hours
English Literature	3	PHYS 242 (PHYS 122, MATH 209)	4
HIST 202	3	HYDR 420 (cMATH 311, CHEM 201, HYDR 300)	4
HYDR 488 (Junior or adviser approval)	1	HYDR 430 (POLS 202, HYDR 310, cHYDR 420)	3
Visual Arts Core	3	HYDR 488 (Junior or adviser approval)	1
HLTH 101 or PE	2	Support Class	4
HYDR 310 ^{c,e} (cMATH 311, HYDR 110, HYDR 211) or Support Class	4	HYDR 440 [†]	1
Total	16	Total	17

Note: Prerequisites in (parentheses)

Support Fields:

Biology Support Area:

BIOL 120, 121, 307, 441
HYDR 311, 488
MATH 360

Chemistry Support Area:

CHEM 202, 314, 323, 324
HYDR 311, 488
BIOL 121

Geosciences Support Area:

GEOL 106, 300, 310, 313
HYDR 311, 488
GEOL 312 or 314 or 412 or ES 413

Economics Support Area:

ECO 201, 202, 301, 302, 304, 306
HYDR 311, 488

Agriculture Support Area:

AGRN 301, 312, 427
HYDR 311, 488
MATH 360
A EC 105, A EN 318

Engineering Support Area:

MATH 360
HYDR 488
ENGR 111, 112, 221, 222, 303, 460
ENPH 225 or ENPH 248

Computer Science Support Area:

CIS 331
HYDR 311, 488
CS 110, 221, 344, 401
MATH 360