

2008-2009 Program Advising Guide

Department of Engineering and Physics

HYEG Building, Room 111

Telephone: (254) 968-9164

<http://www.tarleton.edu/~xwang>

for

Bachelor of Hydrology† in Chemistry

| 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 (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 (cMATH 311, HYDR 110, HYDR 211) | 4 | Additional in the core list | 3 |
| Total | 18 | Total | 17 |

| Junior Year | | | |
|---|-----------|--|-----------|
| Fall Semester | Hours | Spring Semester | Hours |
| POLS 202 | 3 | ART, FA, IT, MUSC, THEA | 3 |
| HYDR 320 (MATH 209, CHEM 108, GEOL 105, HYDR 211) | 4 | HLTH 101 | 2 |
| HYDR 410 (MATH 333, HYDR 300, HYDR 310) | 3 | CHEM 201 (CHEM 108) | 4 |
| BIOL 120 | 4 | HYDR 420 (cMATH 311, CHEM 201, HYDR 300) | 4 |
| CHEM 314 (CHEM 108) | 3 | HYDR 430 (POLS 202, HYDR 310, cHYDR 420) | 3 |
| | | HYDR 488 (Junior or adviser approval) | 1 |
| Total | 17 | Total | 17 |

| Senior Year | | | |
|--------------------|-------|-------------------------------|-------|
| Fall Semester | Hours | Spring Semester | Hours |
| English Literature | 3 | PHYS 242 (PHYS 122, MATH 209) | 4 |
| HIST 202 | 3 | HYDR 311 (GEOL 105, HYDR 110) | 3 |

Science and Technology – Engineering and Physics – Hydrology and Watershed Management

| | | | |
|--|-----------|--|-----------|
| HYDR 488 (<i>Junior or adviser approval</i>) | 1 | HYDR 450 (<i>MATH 333/360, HYDR 300, HYDR 310, HYDR 320</i>) | 3 |
| CHEM 202 (<i>CHEM 201</i>) | 4 | HYDR 488 (<i>Junior or adviser approval</i>) | 1 |
| CHEM 323 (<i>MATH 209, PHYS 105/242</i>) | 4 | CHEM 324 (<i>CHEM 323/head approval</i>) | 4 |
| Total | 15 | Total | 15 |

Note: Prerequisites in (*parentheses*)

Notes:

- a. **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.
 - b. **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 [MATH 107 or higher] has been satisfied.
- † HYDR 440-1 (Internship) can be taken in a summer semester. The degree requires 128 credit hours, with 50 advanced hours.