

## 2008-2009 Program Advising Guide

Department of Engineering and Physics

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for

### Bachelor of Hydrology† in Computer Science

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

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
<b>Total</b>	<b>18</b>	<b>Total</b>	<b>17</b>

Junior Year			
Fall Semester	Hours	Spring Semester	Hours
MATH 360 (MATH 209)	3	HLTH 101	2
HYDR 320 (MATH 209, CHEM 108, GEOL 105, HYDR 211)	4	CHEM 201 (CHEM 108)	4
HYDR 410 (MATH 333, HYDR 300, HYDR 310)	3	HYDR 420 (cMATH 311, CHEM 201, HYDR 300)	4
CS 110 (MATH 107)	3	HYDR 430 (POLS 202, HYDR 310, cHYDR 420)	3
CS 344 (MATH 209)	3	HYDR 488 (Junior or adviser approval)	1
		CS 221 (CS 110)	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

Senior Year			
Fall Semester	Hours	Spring Semester	Hours
ART, FA, IT, MUSC, THEA	3	English Literature	3
HIST 202	3	PHYS 242 (PHYS 122, MATH 209)	4

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

POLS 202	3		HYDR 311 (GEOL 105, HYDR 110)	3
HYDR 488 (Junior or adviser approval)	1		HYDR 450 (MATH 333/360, HYDR 300, HYDR 310, HYDR 320)	3
CIS 331 (CIS 103/300/head approval)	3		HYDR 488 (Junior or adviser approval)	1
			CS 401 (3-hr programming/head approval)	3
<b>Total</b>	<b>13</b>		<b>Total</b>	<b>17</b>

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 127 credit hours, with 51 advanced hours.