# Bachelor of Science in Chemistry

## Degree Plan: Option II: Computation

### Required Courses

**English**: 6 hours  
- Rhetoric 306  
- 316K

**Substantial Writing Component**: Note: writing courses may be used simultaneously to satisfy other area major requirements. The Chemistry degree contains two substantial writing component courses:

- CH 431  
- CH 376K

**Foreign Language/Culture**: one of the following options

- a. 2nd semester proficiency in a foreign language  
- b. 1st semester foreign language and a foreign culture course of the same language area.

- c. Two 3 hr. foreign culture courses

**Social Sciences**: ANT, ECO, GRG, LIN, PSY, OR SOC.  
3 hrs: ______

**Fine Arts/Humanities**: ART, DRM, MUS, CLASSICS, ARC, F, or PHL  
3 hrs. (other than logic): ______

**Math**:  
- M408C  
- M408D or M408K  
- M408L  
- M408M

- An upper-division course in Math chosen from:  
- M340L or M341

**Physics**:  
- PHY317K (or 301, or 303K)  
- PHY117M (or 101L, or 103M)

- PHY317L (or 316, or 303L)  
- PHY117N (or 116L, or 103N)

**Computation**: 12 hrs. of coursework in the Elements of Computing, consisting of:  
- CS 303E  
- CS 313E

Remaining six hours chosen from:  
- CS 323E  
- CS324E  
- CS 326E  
- CS 327E  
- CS 329E

**Chemistry**:  
- General: CH301 or CH 301H  
- CH302 or CH 302H  
- CH 317

- Organic: CH318M (310M)  
- CH118K  
- CH318N (310N)  
- CH118L(210C)

- Biochemistry: CH 339K or CH 369

- Physical: CH353  
- CH153K  
- CH354 or CH354L  
- CH154K

- Inorganic: CH431*

- Analytical: CH456*  
- CH376K**

- Computation: CH368**

- 3 additional hours of upper-division **Chemistry Laboratory** coursework chosen from the list below:

- Chemistry 341  
- Special Topics in Laboratory Chemistry  
- Chemistry 369L Biochemistry Laboratory  
- Chemistry 371K Science Outreach in Elem Schools

- 3hrs

*CH 431 & CH 456 are usually offered in the fall semester only  
**CH 368 & CH 376K are usually offered in the spring semester only

A *minimum* grade of ‘C’ is required for each Chemistry course

Students planning a graduate program in chemistry are strongly recommended to take:  
- Physics 301, 101L, 316, 116L, 315, and 115L
### REQUIREMENT CHECKLIST

- 127 total hrs. (in addition to the requirements on the previous page, enough elective coursework must be completed to satisfy the 127 hr requirement for the B.S. degree)
- 60 hrs. taken in residence (at UT Austin)
- 18 hrs. of major coursework taken in residence
- 36 upper division hrs. (18 hrs. including 12 hrs. in chemistry taken in residence)
- 24 of the last 30 hrs. taken in residence
- A maximum of 16 elective hrs. taken pass/fail
- A minimum grade point average of 2.0
- A grade of at least 'C' in all major area coursework
- Graduating seniors must apply to graduate

### SAMPLE 4 YEAR DEGREE PLAN

#### FALL
- RHE 306
- M 408C or M 408K
- CH 301 or CH 301H
- C S 303E (13)

#### SPRING
- M 408D or M 408L
- CH 302 or CH 302H
- CH 317 or CH 204
- C S 313E
- FINE ARTS/Culture (15-16)

#### SUMMER
- Foreign Lang (3-5 HRS)
- see checklist for options

#### FALL
- M 340L or M 341
- CH 318M & 118K (or 310M)
- PHY 317K & 117M
- Foreign Lang (3-5 HRS)
- see checklist for options
- Elective (3 HRS)²
- (13-16)

#### SPRING
- CH 318N & 118L
- (or 310N & 210C)
- E 316K
- PHY 317L & 117N
- Elective (3 HRS)²
- (14-15)

#### SUMMER
- GOV 310L
- GOV 312L

#### FALL
- CH 353
- CH 339K or CH 369
- CH (3 HRS)¹
- SOC SCI
- Elective (3 HRS)²
- (15)

#### SPRING
- CH 354L or 354
- CH 153K
- CH 368 – Applied Math & Computation in Chemistry
- Elective (3 HRS)²
- Elective (3 HRS)²
- (13)

#### SUMMER
- Elective²
- HIS 315K³
- HIS 315L³

#### FALL
- CH 431**
- CH 456**
- C S (3 HRS)⁴
- Elective (3 HRS)²
- (14)

#### SPRING
- CH 376K **
- CS (3 HRS)⁴
- CH 154K
- Elective (3 HRS)²
- Elective (3 HRS)²
- (13)

#### SUMMER

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¹Chemistry laboratory course chosen from: CH 341, CH 369K, CH 369L, and CH 371K.

²The B.S. Chemistry degree requires completion of 36 upper-division hours. Electives may be lower-division if upper division requirement is satisfied. Please see your advisor to determine exact hours of elective hours needed (this amount will vary; for example, depending upon which foreign language/culture option is chosen).

³This requirement can be satisfied with any US HIS course that fulfills the legislative requirement; these course are identified in the Course schedule.

⁴Elements of Computing coursework chosen from C S 323E, C S 324E, C S 326E, C S 327E, or C S 329E.

**NOTE: CH 456 and CH 431 are usually offered only in the fall; CH 368 (Computational Chem) and CH 376K are usually offered only in the spring.**