

# Bachelor of Science Degree Chemistry Major 2005-2006

## Department of Chemistry

201 Beury Hall  
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**Acting Chairperson:** Dr. Robert Levis

**Faculty Advisor:** Dr. Donald Titus

[www.chem.temple.edu](http://www.chem.temple.edu)

- **123** credits, **90** of which must be in CST/CLA courses
- **45** credits must be upper level (UL) coursework in either CST/CLA or UL course(s) that can be credited towards the major or declared 2nd major/minor chosen in consultation with an advisor.
- Appropriate Core Curriculum requirements:
  - Traditional  Core 45  Core to Core
- The following requirements for the Chemistry Major:

**Math Sequence:** 0045>C073>C074>C085>0086

### First Year

- Calculus I (Math C085 or H095)•
- Calculus II (Math 0086 or H096)•
- General Chemistry I w/ Lab (Chem C071/73 or C081/83)•
- General Chemistry II w/ Lab (Chem C072/74 or C082/84)•

### Second Year

- Organic Chemistry I with Lab (0121/3 or 0181/3)•
- Organic Chemistry II with Lab (0122/4 or 0182/4)•
- General [or Elementary Classical] Physics I (Physics 0121 [or C087])•
- General [or Elementary Classical] Physics II (Physics 0122 [or C088])•
- Intro to Chemical Research Techniques (Chem 0129)•
- Calc III (Math 0127) or Computer Programming in C (CIS C071)•

### Third Year

- Physical Chemistry Lecture I (Chem 0231)•
- Techniques of Chemical Measurement I (Chem 0213)•
- Physical Chemistry Lecture II (Chem 0232)•
- Physical Chemistry Laboratory (Chem W237)\*•

### Fourth Year

- Inorganic Chemistry (Chem 0301)•
- Techniques of Chemical Measurement II (Chem W314)•
- Advanced Chemistry Course (any numbered 0305 or +)\*•
- Advanced Chemistry Course (any numbered 0305 or +)\*•
- Advanced Science Course (see below)•
- Advanced Science Course (Chem 0283 or 0293 (only one of these may count as an advanced science) 0305 or higher, or choose from: **Bio** 0203, W204, 0234, 0265 and above; **Physics** 0183, 0184, 0187, 0188, 0201, 0202, 0211, 0221, 0231 & above; **Geology** 0200 and above; **Math** 0147, W205, 0233, 0247 and above).•

\*For the BS degree to be ACS certified you must take Chem 0371 & Chem 0307 plus at least 2 of the following: Chem 0293, 0308, 0313, 0317, 0327, 0328, 0337. Math 0127 is also required for ACS certification

•Courses have pre- and/or co-requisites, consult course descriptions for details.

## Traditional Core

For students starting as freshmen at Temple or transferring with fewer than 45 credits

- English C050 \_\_\_\_\_
- American Culture \_\_\_\_\_
- The Arts \_\_\_\_\_
- Individual and Society \_\_\_\_\_
- Studies in Race \_\_\_\_\_
- Foreign Language 2<sup>nd</sup> level \* \_\_\_\_\_
- Foreign Language 3<sup>rd</sup> level \* \_\_\_\_\_
- International Studies \_\_\_\_\_
- International Studies (non western) \* \_\_\_\_\_
- Science and Technology (SA) \_\_\_\_\_
- Science and Technology (SB) \_\_\_\_\_
- Quantitative Reasoning (QA) \_\_\_\_\_
- Quantitative Reasoning (QB) \_\_\_\_\_
- Intellectual Heritage X051 \_\_\_\_\_
- Intellectual Heritage X052 \_\_\_\_\_
- Writing Intensive Elective \_\_\_\_\_
- Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
- Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_

### B.S.

- 2 International Studies (IS) 1 non western or
- 2<sup>nd</sup> level of a language + 1 IS or
- 3<sup>rd</sup> level of a language /Exempt^

## Core 45 +

For students receiving 45 credits or more in transfer

- English C050 \_\_\_\_\_
  - American Culture \_\_\_\_\_
  - The Arts \_\_\_\_\_
  - Individual and Society \_\_\_\_\_
  - Studies in Race \_\_\_\_\_
  - Science and Technology (SA or SB) \_\_\_\_\_
  - Quantitative Reasoning (QA or QB) \_\_\_\_\_
  - Intellectual Heritage X051 or X052 \_\_\_\_\_
  - Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
  - Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_
  - Foreign Language \_\_\_\_\_
  - International Studies \_\_\_\_\_
- } 2 of the 3

### B.S.

- 1 International Studies (IS) or
- 2<sup>nd</sup> level of a language/Exempt^

For students who have completed an approved Associate's degree from a college that has an established transfer agreement with Temple.

## Core to Core

- Writing Intensive Elective (Must be taken at Temple) \_\_\_\_\_
- Writing Intensive in Major (Must be taken at Temple) \_\_\_\_\_
- Library Skills (TILT) [www.library.temple.edu](http://www.library.temple.edu)  
(Must be taken in order to graduate)

^If English is your second language, speak with an advisor about possible exemption.  
Revised 6/23/05