**CHEMISTRY –Chemistry Education Pre-Certification Option**

**(B.S., CHMBD)**

**124 credits**

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**First-year Seminar:**

PSU 007 \_\_\_ (1) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Communications (GWS):**

ENGL 015 \_\_\_ (3)

ENGL 202C \_\_\_ (3) §

CAS 100 \_\_\_ (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Quantification (GQ):**

MATH 140 \_\_\_ (4) §

MATH 141 \_\_\_ (4) §

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Natural** **Sciences (GN):**

PHYS 211 \_\_\_ (4) §

PHYS 212 \_\_\_ (4) §

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Arts (GA):**

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Humanities (GH):**

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Social and Behavioral Sciences (GS):**

PSYCH 100 \_\_\_ (3) §

PSYCH 212 \_\_\_ (3)

or HDFS 129 \_\_\_ (3)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Health and Activity (GHA):**

BB H/KINES/ESACT

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (1.5)

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (1.5)

**Prescribed Courses: 60-61 cr.**

CHEM 110 \_\_\_ (3) §

CHEM 111 \_\_\_ (1) §

CHEM 112 \_\_\_ (3) §

CHEM 113 \_\_\_ (1) §

CHEM 210 \_\_\_ (3) §

CHEM 212 \_\_\_ (3) §

CHEM 213 \_\_\_ (2) §

CHEM 221 \_\_\_ (4) §

CHEM 316 \_\_\_ (1)

CHEM 400 \_\_\_ (1)

CHEM 413 \_\_\_ (4)

CHEM 431W \_\_\_ (3)

CHEM 440 \_\_\_ (3)

CHEM 441 \_\_\_ (1)

CHEM 443 \_\_\_ (1)

CHEM 450 \_\_\_ (3)

CHEM 452 \_\_\_ (3)

CHEM 457 \_\_\_ (1)

CHEM 472 \_\_\_ (3)

CHEM 395 \_\_\_ (1-2)

EDPSY 014 \_\_\_ (3)

**concurrent with**

CI 295 \_\_\_ (1)

EDTHP 115 \_\_\_ (3)

**concurrent with**

CI 295 \_\_\_ (1)

PSYCH 212 \_\_\_ (3)

or HDFS 129 \_\_\_ (3)

MATH 230 \_\_\_ (4) §

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Additional Courses: 12 cr.**

Select 3 credits from:

MATH 250 \_\_\_ (3) §

STAT 401 \_\_\_ (3)

Select 3 credits from:

CHEM 494 or 496 \_\_\_ (3)

Select 6 credits of 400-level

CHEM courses.

(Excluding 494, 495, or 496.)

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ ( )

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Supporting Courses and Related Areas: 6 credits**

Select 6 credits from a School-approved list. May apply up to 6 credits of ROTC.

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ ( )

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ ( )

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ ( )

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**Writing Intensive Course:**

CHEM 431W \_\_\_ (3)

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‡**United States (US)**

**and International (IL) Cultures:**

US \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (3)

IL \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_ (3)

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§Grade of C or higher is required.

‡This requirement can be fulfilled from choices in GA, GH, or GS.

Students graduating from this major must achieve a minimum grade-point average of at least 2.00; achieve an overall grade-point average of at least 2.00 within the Prescribed, Additional, and Supporting courses in the Requirements for the major, including chosen Options, if any; and earn a C grade or better in all 300- and 400-level courses within these same Prescribed, Additional, and Supporting courses. If a student receives a grade below C, he/she must repeat that course or a School Approved alternative, and earn a grade of C or better.

**Effective Summer 2012 Revised 2/4/13**