CHEMISTRY DEGREE REQUIREMENTS

BASIC REQUIREMENTS
Math:
2A_____2B_____2D_____

Physics:
7C_____D_____E____; 7LC_____LD_____

Chemistry:
1A/H2A_____1B/H2B____M3C/H2C_____
M2LA/H2LA____M2LB/H2LB____M3LC/H2LC_____
5_____
51A/H52A____B____C____
M/H52LA____LB____LC____
107_____107L_____
131A____B____C____

Electives (5 Courses; at least 3 of the courses must be offered by the Chemistry department, including at least 1 Chemistry lecture course and 1 Chemistry lab course.)

At least two lecture courses chosen from the Lecture list:
Bio Sci 98, 99
Chemistry 125, 127, 128, 133, 137, 138, 177, any from 201-205, any from 201-205, 213-249, 271
ESS 122, 142, 144
Engineering CBEMS 110, 112, 130, 135, 154
Physics 111A, 111B, 112A, 112B

At least two laboratory courses chosen from the Lab list:
Bio Sci M114L, M116L, M118L
Chemistry 128L, 133L, 152, 153, 156, 160, 170, 177L, 180, 197 (180/H180 may be counted only once)
Engineering CBEMS 140A, 140B
Physics 120, 121

1. ________________ (chem lecture)
2. ________________ (chem lab)
3. ________________ (any chem elective)
4. ________________ (any elective)
5. ________________ (any elective)

Optional Concentration in Biochemistry (May be used to fulfill the lecture and lab electives, where overlap exists.)

Required courses:
Bio Sci 97____98____99
Chemistry 128____128L____

Three electives chosen from the following:
Bio Sci D103____D104____D111L____D137____D153____
M114____M114L____M116____M116L____M118L____
M121____M121L____M122____M122L____M123____
M124A____M124B____M124L____M125____M133____
M137____M144____M160____N110____
Pharm Sci M170A____M170B____

Optional Concentration in Chemistry Education
Education 55____
Physical Sciences 5____105____
Chemistry 193____

Second Teaching Certification Option:
In addition to this Concentration, students can earn a California Single Subject Teaching Credential by completing all of these additional classes:

Logic and Philosophy of Science 60
Education 109, 143A, 143B, 148, and two quarters of Education 158.
(Education 143A and 143B plus 148 count as two electives from the elective list.)

Optional American Chemical Society Certification
Bio Sci 98 OR Chemistry 128
Two labs chosen from the following**
Chemistry 128L, 152, 153, 156, 160, 180, H180

**These courses may not overlap with the upper-division laboratory elective requirement. A maximum of one quarter of Chem 180/H180 may be used. All courses must be taken for a letter grade.

At least one of these three must be a lecture.
At least one of these three must be a lab.