

Chemistry - General Major Requirements Checklist

11/14/06

Group I: Competency Group

ENGL 101 ___ ENGL 102 ___
Foreign Language (through 122)
109 ___ 110 or 121 ___ 122 ___

History, two 100 level courses (only one
may be US History) _____

Group III: Humanities (6 hours)

Including at least one Fine Arts History course

Fine Arts _____ Other Humanities _____

Group II: Quantitative Group

MATH 141 ___ MATH 142 ___
MATH 241 ___ *STAT 509 or 515 ___
STAT 201 ___ (accepted, but 509 or 515
recommended, also they count as cognate)

CSCE 206 (recommended) ___ or CSCE 145 ___

Group IV: Social Sciences (6 hours)

Group V: Lab Sciences (8 hours)

PHYS 211 ___ PHYS 211L ___
PHYS 212 ___ PHYS 212L ___

Pre-Major Requirements (must pass with a C or better)

General Chemistry CHEM 111 ___ (or Honors) CHEM 112 ___ (or Honors)

Major Program Requirements (must be passed with a C or better)

Quantitative Analysis CHEM 321 ___ **CHEM 321L ___

Organic Chemistry CHEM 333 ___ CHEM 333L ___ CHEM 334 ___ CHEM 334L ___

Physical Chemistry CHEM 541 ___ CHEM 541L ___ CHEM 542 ___ CHEM 542L ___

At least one course from this list: 511 (Inorg), 533 (Org), 545 (Phys Bio), 550 (Bio), 555 (Bio), 556 (Bio),
621 (Instrumental Analysis), 623 (Env), 624 (Aquatic), 633 (Polymer Syn) _____

Other Requirements

*If CHEM 111, 112, 321, and 321L (or SCCC 103, 104 and CHEM 321) are all completed at USC, Statistics 509 or
515 is not required. Also, if CHEM 621 and 621L are completed, Statistics 509 or 515 is not required.

** CHEM 321L not required if two semesters of Honors chemistry are completed

Minor (16 -18 hour minimum in a second area of competence) (replaces Cognate)

Cognate (12 hours of upper level courses outside the major discipline – can include MATH 241 and PHYS 212/212L)

Electives (courses that benefit you, not including PE or skills classes, to get to 128 credit hours)

Recommended by Department CHEM 401 (Careers) _____

Chemistry – ACS Certified Major Requirements Checklist

11/14/06

Group I: Competency Group

ENGL 101 ___ ENGL 102 ___

Foreign Language (through 122)

109 ___ 110 or 121 ___ 122 ___

History, two 100 level courses (only one may be US History) ___

Group III: Humanities (6 hours)

Including at least one Fine Arts History course

Fine Arts ___ Other Humanities ___

Group II: Quantitative Group

MATH 141 ___ MATH 142 ___

MATH 241 ___ *STAT 509 or 515 ___

STAT 201 ___ (accepted, but 509 or 515

recommended, also they count as cognate)

one MATH beyond 241 ___ or STAT 509 or 515 ___

CSCE 206 (preferred) ___ or CSCE 145 ___

Group IV: Social Sciences (6 hours)

Group V: Lab Sciences (8 hours)

PHYS 211 ___ PHYS 211L ___

PHYS 212 ___ PHYS 212L ___

Pre-Major Requirements (must pass with a C or better)

General Chemistry CHEM 111 ___ (or Honors) CHEM 112 ___ (or Honors)

Major Program Requirements (must be passed with a C or better)

Quantitative Analysis CHEM 321 ___ **CHEM 321L ___

Organic Chemistry CHEM 333 ___ CHEM 333L ___ CHEM 334 ___ CHEM 334L ___

Physical Chemistry CHEM 541 ___ CHEM 541L ___ CHEM 542 ___ CHEM 542L ___

Inorganic CHEM 511 ___ Bio CHEM 550 or 555 ___ Instrumental Analysis CHEM 621 ___ CHEM 621L ___

Undergraduate research (at least 3 hours) CHEM 496 ___

Other Requirements

*If CHEM 111, 112, 321, and 321L (or SCCC 103, 104 and CHEM 321) are all completed at USC, Statistics 509 or 515 is not required. Also, if CHEM 621 and 621L are completed, Statistics 509 or 515 is not required.

** CHEM 321L not required if two semesters of Honors chemistry are completed

Minor (16 -18 hour minimum in a second area of competence) (replaces Cognate)

Cognate (12 hours of upper level courses outside the major discipline – can include MATH 241 and PHYS 212/212L)

Electives (courses that benefit you, not including PE or skills classes, to get to 128 credit hours)

Recommended by Department CHEM 401 (Careers) _____