*Designates only grades of "C" or better may be used to fulfill this requirement.

**MAJOR REQUIREMENTS**

1. Complete the following:* (48)
   - Chem 105X (4) **
   - Chem 106X (4) **
   - Chem 202 (3)
   - Chem 212 (3)
   - Chem 312 (4)
   - Chem 321 (3)
   - Chem 322 (3)
   - Chem 324 (4) ** (W)
   - Chem 331 (4)
   - Chem 332 (4)
   - Chem 402 (3) +
   - Chem 413 (3) **(W)
   - Chem 434 (3) **(W)
   - Chem 451 (3)
   - Chem 481 (1) ++
   - Chem 482 (2) **(O)

   *Chem 481 is a prerequisite for Chem 482.

2. Complete 2 semesters of the following:* (4)
   - Chem 488 (2) +
   - Chem 488 (2) +

   **May be used to meet general degree requirements.

   +Advanced courses in physical or biological sciences or math may be substituted with department head approval.

   ++Chem 481 is a prerequisite for Chem 482.

   Must take both courses to meet the oral intensive communication requirement (O).

**ELECTIVES (for a total of 130 credits):**

   (W)   (W)   (W)
   (O)   (O/2)   (O/2)

Credits for core/general requirements: 48
Credits required for major: 52
Elective credits: 24-28
Total credits required for degree: 130

2009-10 CATALOG
CHEMISTRY
B.S. Degree Requirements
130 Credits

GENERAL REQUIREMENTS

COMMUNICATIONS:* (9)
   - Engl 111X (3)
   - Engl 211X or 213X (3)
   - Comm 131X or 141X (3)

PERSPECTIVES ON THE HUMAN CONDITION:* (18-22)
   Complete the 6 courses listed OR 4 of those listed plus 2 semester length courses in a single AK Native or other non-English language or 3 semester length courses (9 credits) in American Sign Language.
   - Anth 100X/Soc 100X (3)
   - Econ/PS 100X (3)
   - Hist 100X (3)
   - Art/Mus/Thr 200X OR Hum 201X
     OR Ans 202x (3)
   - Engl/FL 200X (3)
   - BA 323X or Comm 300X or Just 300X or Nrm 303X or Phil 322X or PS 300X (3)
   - Language option as listed above:
     ________ ( ) ________ ( ) ________ ( )

MATHEMATICS:* (12)
   - Math 200X (4)
   - Math 201X (4)
   - Math 202X (4)

NATURAL SCIENCE:* (8)
   - Phys 103X (4) & Phys 104X (4) OR
   - Phys 211X (4) & Phys 212X (4)

LIBRARY & INFO SKILLS:* (0-1)
   - LS competency test OR
   - LS 100X or 101X (1)

COMPLETE 2 DESIGNATED (W) COURSES AND
1 DESIGNATED (O) COURSE OR 2 COURSES
DESIGNATED (O/2) AT THE UPPER DIVISION LEVEL:
   ________ (W) ________ (W)
   ________ (O) OR ________ (O/2) ________ (O/2)

UPPER DIVISION CREDITS:* (39)
   Transfer Credits ______
   UAF Credits (24)* ______
   TOTAL TO DATE: ______
   TO BE COMPLETED: ______
   *a minimum of 24 UAF credits

(chem-2)