

# Fall 1997 to Present Requirements

# Bachelor of Science: Chemistry

Name \_\_\_\_\_ Student ID Number \_\_\_\_\_ Completion Date \_\_\_\_\_

## Required Chemistry Courses (43 hours):

|   | <u>Hrs</u> | <u>Grade</u> | <u>Semester</u> | <u>Notes:</u> |
|---|------------|--------------|-----------------|---------------|
| Chem 211 General Chemistry I  | 4          | _____        | _____           |               |
| Chem 211L Experimental General Chemistry I  | 1          | _____        | _____           |               |
| Chem 212R General Chemistry II  | 4          | _____        | _____           |               |
| Chem 212LR Experimental General Chemistry II  | 1          | _____        | _____           |               |
| Chem 321 Organic Chemistry I  | 3          | _____        | _____           |               |
| Chem 321L Organic Chemistry Lab I   | 1          | _____        | _____           |               |
| Chem 322R Organic Chemistry II  | 3          | _____        | _____           |               |
| Chem 322L Organic Chemistry Lab II  | 1          | _____        | _____           |               |
| Chem 341 Analytical Chemistry I: Quantitative Analysis  | 4          | _____        | _____           |               |
| Chem 410 Chemical Literature  | 1          | _____        | _____           |               |
| Chem 431 Physical Chemistry I   | 3          | _____        | _____           |               |
| Chem 432 Physical Chemistry II  | 3          | _____        | _____           |               |
| Chem 437WI Experimental Physical Chemistry I (WEPT Date: _____)   | 3          | _____        | _____           |               |
| Chem 442R Analytical Chemistry II: Instrumental Analysis  | 3          | _____        | _____           |               |
| Chem 451R Inorganic Chemistry   | 3          | _____        | _____           |               |
| Chem 382 Inorganic and Organic Synthesis* (for ACS-approved BS) <b>OR</b><br>Chem 499 Senior Research** (for non-ACS-approved BS)   | 2          | _____        | _____           |               |
| Biochemistry (Chem 367 OR LS Bioc 341 or 365)* (for ACS-approved BS) <b>OR</b><br>Chem 300/400 Elective** (for non-ACS-approved BS) | 3          | _____        | _____           |               |

## Advanced Work (3 hours):

Advanced work in chemistry (400 or higher), mathematics (courses higher than Math 250 with Math 220 as a prereq), biology (300 or higher), or physics (300 or higher).

3 \_\_\_\_\_

## Additional Requirements (22 hours):

|  |   |       |       |
|--|---|-------|-------|
| Math 210 Calculus I                                | 4 | _____ | _____ |
| Math 220 Calculus II                               | 4 | _____ | _____ |
| Math 250 Calculus III                              | 4 | _____ | _____ |
| Physics 240 Physics for Science and Engineering I  | 5 | _____ | _____ |
| Physics 250 Physics for Science and Engineering II | 5 | _____ | _____ |

Still needs to graduate after \_\_\_\_\_ date \_\_\_\_\_

\*Required for ACS-approved BS degree: Student completing the ACS-approved BS in Chemistry must complete 2 credit hours of Chem 382 and 3 credit hours of biochemistry (Chem 367 or LS Bioc 341 or 365). \*\*For non-ACS-approved BS degree

- A "C-" or better must be earned in all chemistry courses counting toward the major AND in any prerequisite course (including physics, biology, and mathematics courses).
- Overall chemistry GPA must be at least a 2.0.
- A minimum of 12 credit hours must be completed within the UMKC Department of Chemistry and 9 of the 12 hours must be at the (300/400) level. LS BIOC 341 and 365 are not considered to be within the Department of Chemistry!
- No more than 3 hours of Chem 495 and/or Chem 499 may be used in meeting the major requirements.
- Chem 499 cannot be used to meet both laboratory requirements and the 3 hours of advanced work.
- The Department of Chemistry strictly adheres to prerequisite, corequisite, and WEPT requirements!
- Petition for course substitution or exception must be made in writing to and approved by the Chemistry Curriculum Committee.

Departmental Advisor  
Updated 05/01/08

Date

Student

Date