

## Bachelor of Science in Chemistry with Certified Chemist Concentration, 214B

| YEAR                                     | FALL SEMESTER                                | SEM | DESIGN | HOURS | YEAR | SPRING SEMESTER                               | SEM | DESIGN       | HOURS         |
|--|--|-----|--------|-------|------|---|-----|--------------|---------------|
| 1st                                      | CHE 1101 Introductory Chemistry I **         |     | ND     | 3     | 1st  | CHE 1102 Introductory Chemistry II **         |     | ND           | 3             |
| 1st                                      | CHE 1110 Introductory Chemistry I Laboratory |     |        | 1     | 1st  | CHE 1120 Introductory Chemistry II Laboratory |     |              | 1             |
| 1st                                      | MAT 1110 Calculus with Analytical Geometry I |     | ND     | 4     | 1st  | MAT 1120 Calculus with Analytical Geometry II |     | ND           | 4             |
| 1st                                      | ENG 1000 Expository Writing                  |     | W      | 3     | 1st  | ENG 1100 Introduction to Literature           |     | W            | 3             |
| 1st                                      | core curriculum course                       |     |        | 3     | 1st  | core curriculum course                        |     |              | 3             |
|  |  |     |        |       | 1st  | physical activity/wellness course             |     |              | 1             |
|  |  |     |        | 14    |      |   |     |              | 15            |
| 2nd                                      | CHE 2201 Organic Chemistry I **              |     |        | 3     | 2nd  | CHE 2202 Organic Chemistry II **              |     |              | 3             |
| 2nd                                      | CHE 2203 Organic Chemistry I Laboratory      |     |        | 1     | 2nd  | CHE 2204 Organic Chemistry II Laboratory      |     | W            | 1             |
| 2nd                                      | CHE 2210 Quantitative Analysis **            |     | W      | 4     | 2nd  | PHY 1151 Analytical Physics II **             | [S] | W, ND, S     | 5             |
| 2nd                                      | PHY 1150 Analytical Physics I **             | [F] | ND     | 5     | 2nd  | core curriculum course                        |     |              | 3             |
| 2nd                                      | core curriculum course                       |     |        | 3     | 2nd  | physical activity/wellness course             |     |              | 1             |
|  |  |     |        |       | 2nd  | elective                                      |     |              | 3             |
|  |  |     |        | 16    |      |   |     |              | 16            |
| 3rd                                      | CHE 3301 Physical Chemistry I                | [F] | C      | 3     | 3rd  | CHE 3302 Physical Chemistry II                | [S] | C            | 3             |
| 3rd                                      | CHE 3303 Physical Chemistry I Lab            | [F] | W      | 1     | 3rd  | CHE 3304 Physical Chemistry II Lab            | [S] | W            | 1             |
| 3rd                                      | CHE 3000 Introduction to Chemical Research   |     | S      | 1     | 3rd  | CHE 3404 Inorganic Chemistry                  | [S] |              | 3             |
| 3rd                                      | core curriculum course                       |     |        | 3     | 3rd  | CHE 3405 Inorganic Chemistry Lab              | [S] |              | 1             |
| 3rd                                      | other science course                         |     |        | 4     | 3rd  | CHE 4000 Chemistry Seminar                    |     |              | 1             |
| 3rd                                      | elective                                     |     |        | 3     | 3rd  | core curriculum course                        |     |              | 3             |
|  |  |     |        |       | 3rd  | elective                                      |     |              | 3             |
|  |  |     |        | 15    |      |   |     |              | 15            |
| 4th                                      | CHE 4560 Instrumental Methods of Analysis ** | [F] | W      | 4     | 4th  | CHE 4580 Biochemistry I                       |     |              | 3             |
| 4th                                      | CHE 4400 Senior Research                     |     | S      | 1     | 4th  | other science course                          |     |              | 4             |
| 4th                                      | core curriculum course                       |     |        | 3     | 4th  | core curriculum course                        |     |              | 3             |
| 4th                                      | elective                                     |     |        | 4     | 4th  | elective                                      |     |              | 3             |
| 4th                                      | elective                                     |     |        | 3     | 4th  | elective                                      |     |              | 3             |
|  |  |     |        | 15    |      |   |     |              | 16            |
| ** This course has a required laboratory |  |     |        |       |      |   |     |              |               |
|  |  |     |        |       |      |   |     | <b>Total</b> | <b>122 SH</b> |