

| SUNY ADIRONDACK  |           | SUNY POTSDAM   |           |
|--|-----------|--|-----------|
| <i>Associate in Science<br/>Liberal Arts and Sciences (0645)<br/>Mathematics - Science</i>   |           | <i>Bachelor of Science<br/>Chemistry Major</i>   |           |
| Course   | Credit    | Course   | Credit    |
|  |           |  |           |
| <i>Freshman Experience:</i> HRD 110  | 1         | First Year Success Seminar   | 1         |
| <i>Writing I:</i><br>ENG 101 <b>or</b> ENG 100A <b>and</b> 100B  | 3         | COMP 101 Writing and Critical Thinking   | 3         |
| <i>Writing II:</i><br>ENG 102,103,104,105,106,108,109 <b>or</b> 110  | 3         | writing intensive gen ed requirement   | 3         |
| <i>SUNY Gen Ed Math:</i> MAT 131 Calculus I  | 4         | MATH 151 Calculus I - required for major   | 4         |
| <i>Lab Science:</i> CHM 111 General Chemistry I  | 4         | CHEM 105 General Chemistry I (major)   | 4         |
| <i>Math or Science Course:</i> MAT 132 Calculus II   | 4         | MATH 152 Calculus II - required for major  | 4         |
| <i>Western Civilization:</i> HIS 100, 101 or 102   | 3         | western civilization gen ed requirement  | 3         |
| <i>American History:</i> HIS 103 <b>or</b> 104   | 3         | American history gen ed requirement  | 3         |
| <i>Social Science:</i> ANT 105; ECO 201,202; PSC 101,102,103; PSY 101,103; SOC 101 <b>or</b> 103   | 3         | social analysis gen ed requirement   | 3         |
| <i>Humanities:</i> ART 102,104,105,106; MUS 103, 105,110,131,132,133,134,135,136,139,140; THR 102,105,106 <b>or</b> 107  | 3         | aesthetic experiential gen ed requirement  | 3         |
| <i>Math or Science:</i><br>CHM 112 General Chemistry II<br>CHM 203 Organic Chemistry I<br>CHM 204 Organic Chemistry I<br>EGR 105 Engineering Physics I<br>EGR 106 Engineering Physics II | 20        | chemistry major requirements:<br>CHEM 106 General Chemistry II<br>CHEM 341 Organic Chemistry I<br>CHEM 342 Organic Chemistry II<br>PHYS 103 University Physics I<br>PHYS 204 University Physics II | 20        |
| <i>Liberal Arts Electives</i>  | 6         | liberal arts electives   | 6         |
| <i>Electives:</i><br>FRN <b>or</b> SPA 201 (see ML note below)   | 3         | ML gen ed requirement or elective<br>FREN or SPAN 103  | 3         |
| <i>Electives:</i> SUNY gen ed course   | 3         | SUNY gen ed requirement  | 3         |
| PED physical education activity  | 1         | PE physical education activity   | 1         |
| PED physical education activity  | 1         | PE physical education activity   | 1         |
|  |           |  |           |
| <b>TOTAL CREDITS</b>   | <b>65</b> | <b>TOTAL CREDITS</b>   | <b>65</b> |

One half of the major must be completed at Potsdam (typically at the upper-division level). Grades of C/2.0 must be earned in each required major course.

**Modern Language requirement:** Students who have completed four years of the same foreign language in high school (one year beyond the Regents) have satisfied Potsdam's ML requirement. Students who do not have the 4th year should be placed into the appropriate level of foreign language and continue to the 201 level at ACC. Students who have completed the ML requirement in high school can use their electives for any courses under advisement (strongly encourage completion of any SUNY general education requirement not yet satisfied).

## SUNY Potsdam - Years 3 and 4

### Chemistry (B.S. degree)

| Semester V - Junior Year |     |                             | Credit |
|--------------------------|-----|-----------------------------|--------|
| CHEM                     | 311 | Quantitative Analysis       | 4      |
| CHEM                     | 433 | Inorganic Chemistry         | 3      |
| CHEM                     | 451 | Physical Chemistry I        | 4      |
| MATH                     | 253 | Multivariate Calculus       | 4      |
| PE                       |     | physical education activity | 1      |
|                          |     |                             | 16     |

| Semester VI - Junior Year |     |                                    | Credit |
|---------------------------|-----|------------------------------------|--------|
| CHEM                      | 415 | Instrumental Analysis              | 4      |
| CHEM                      | 434 | Inorganic Chemistry Laboratory     | 1      |
| CHEM                      | 452 | Physical Chemistry II              | 4      |
|                           |     | gen ed mode of inquiry requirement | 3      |
|                           |     | upper-division elective            | 3      |
| PE                        |     | physical education activity        | 1      |
|                           |     |                                    | 16     |

| Semester VII - Senior Year |     |                                    | Credit |
|----------------------------|-----|------------------------------------|--------|
| CHEM                       | 308 | Chemistry Topics                   | 1      |
| CHEM                       | 425 | Biochemistry I                     | 4      |
|                            |     | gen ed mode of inquiry requirement | 4      |
|                            |     | upper-division elective            | 3      |
|                            |     | upper-division elective            | 3      |
|                            |     |                                    | 15     |

| Semester VIII - Senior Year |     |   | Credit |
|-----------------------------|-----|---|--------|
| CHEM                        | 309 | Seminar in Chemistry (SI gen ed course) | 1      |
| CHEM                        | 497 | Research Problems                       | 3      |
| CHEM                        |     | advanced chemistry elective             | 3      |
|                             |     | gen ed mode of inquiry requirement      | 3      |
|                             |     | upper-division elective                 | 3      |
|                             |     | upper-division elective                 | 3      |
|                             |     |   | 16     |